Addendum #3

Project: EB Frink Middle School
405 N. Charles Street
LaGrange, NC 28551
Lenior County, NC

Owner: Lenior County Schools
2017 W. Vernon Avenue
Kinston, NC 28504

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

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

Date: April 17, 2025

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: Key Date Reminders

Bid Day - April 24, 2025

Item #2: Revised Bid From

Item #3: Scope Changes

A. BP0150 General Trades_20250417-A3 (10 Pages)
B. BP0330 Turnkey Concrete_20250417-A3 (15 Pages)
C. BP0340 Hollow Core Plank_20250417-A3 (8 Pages)
D. BP0420 Turnkey Masonry_20250417-A3 (14 Pages)
E. BP0510 Structural Steel_20250417-A3 (11 Pages)
F. BP0710 Damp Proofing, Waterproofing, Fireproofing & Joint Protection_20250417-A3 (9 Pages)
G. BP0740 Wall Panels_20250417-A3 (8 Pages)
H. BP0840 Aluminum Windows, Entrances, Storefront & Curtainwall_20250417-A3 (10 Pages)
I. BP0966 Resinous Matrix Terrazzo Flooring_20250417-A3 (9 Pages)
J. BP1011 Visual Display Units_20250417-A3 (8 Pages)
K. BP1020 Interior Specialties_20250417-A3 (9 Pages)
L. BP1073 Awnings and Canopies_20250417-A3 (8 Pages)
M. BP1140 Food Service Equipment_20250417-A3 (9 Pages)
N. BP1230 Manufactured Casework_20250417-A3 (10 Pages)
O. BP2200 Plumbing_20250417-A3 (12 Pages)
P. BP2600 Electrical, Communications, Fire & Smoke Protection_20250417-A3 (11 Pages)
Q. BP3100 Turnkey Sitework_20250417-A3 (12 Pages)
R. BP3231 Fences and Gates (Removed and added to BP3100)

Item #4: SFL+a Addendum

A. Addendum 03_EB Frink (135 Pages)

Item #5: RFI Log

A. RFI Log (21 Pages)
B. Appendix A (1 Page)

END OF ADDENDUM #3

EB Frink Middle School

BID MANUAL

BID DATE: 4/24/2025
BID TIME: 2:00PM

METCON, INC.
P.O. Box 1149
763 Comtech Drive
Pembroke, NC 28372
Tele: 910-521-8013
Fax: 910-521-8014

JOB NAME:	EB Frink Middle School
PROJECT ADDRESS:	405 N. Charles Street, LaGrange, North Carolina
PUBLISH DATE:	2/24/2025
CM@R PROJECT NUMBER:	2024038
OWNER:	Lenoir County Public Schools Jeffrey Turnage Construction Manager 2017 W. Vernon Avenue Kinston, North Carolina 28504
ARCHITECT:	SFL+a Miyuki Keller Project Architect 333 Fayettville St. Ste 225 Raleigh, NC 27601
CONSTRUCTION MANAGER:	Metcon David Jackson, Project Manager II 3050 Hammond Business Place Ste 121 Raleigh, NC 27603 910.827.0103 Djackson@metconus.com
PRECON MANAGER:	Metcon Andrea Avery, Precon Manager 3050 Hammond Business Place Ste 121 Raleigh, NC 27603 912.656.1136 Aavery@metconus.com

The name of the project is:	EB Frink Middle School
The Physical address:	405 N. Charles Street, LaGrange, North Carolina
The name of the contacting body:	Lenoir County Public Schools
The name of the Construction Manager:	Metcon, Inc. 763 Comtech Drive Pembroke, NC 28372 (910) 521-8013

The name, phone number, and mailing address of an agent authorized by the Construction Manager to accept service of the request for payment bond, the notice of public subcontract, and the notice of claim on payment bond referenced in Subsection B of this section.

David Jackson, Project Manager II
Metcon, Inc.
763 Comtech Drive
Pembroke, NC 28372
(910)521-8013

The name and address of the principal place of business of the surety issuing the performance & payment bond required for the construction contract.

Liberty Mutual Insurance
175 Berkley Street
Boston, MA 02116

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FOR PREQUALIFIED SUBONTRACTORS
ON THE
EB Frink Middle School

Metcon, Inc. is requesting bids from prequalified subcontractors and vendors on the Construction Bid Packages in accordance with the "Instruction to Bidders". This solicitation is for

Sealed proposals will be on **4/24/2025 no later than 2:00PM at 2017 West Vernon Avenue, Kinston, NC 28504** and immediately thereafter publicly opened via **ZOOM** (Please see instruction to bidders) and read for the furnishing of labor materials and equipment for the:

EB Frink Middle School

Lenoir County Public Schools is constructing a new middle school located on N Charles Street in La Grange, NC. The building is a single story, load-bearing masonry structure with light-gage metal roof trusses. There is a mechanical mezzanine space for mechanical equipment. The project is 96,319 square feet and is designed to be a new state-of-the-art middle school facility that includes 38 core classrooms/labs to support an innovative, student-centered learning environment. This facility will have a food service/kitchen/cafeteria, media space, gymnasium, collaborative spaces, and office spaces.

Pre-Bid Conferences
A Pre-Bid conference will be held on **3/11/2025 at 2:00PM at 2017 West Vernon Avenue, Kinston, NC 28504 via Zoom (Please see Instruction to Bidders).**

The meeting is also to identify preferred brand alternates and their performance standards that the owner will consider for approval on this project. In accordance with General Statute GS 133- 3, Specifications may list one or more preferred brands as an alternate to the base bid in limited circumstances. Specifications containing a preferred brand alternate under this section must identify the performance standards that support the preference. Performance standards for the preference must be approved in advance by the owner in an open meeting. Any alternate approved by the owner shall be approved only where (i) the preferred alternate will provide cost savings, maintain or improve the functioning of any process or system affected by the preferred item or items, or both, and (ii) a justification identifying these criteria is made available in writing to the public.

Contract Documents
Justification of any approvals will be made available to the public in writing no later than seven (7) days prior to bid date.

Complete plans, specifications and contract documents will be open for inspection in the offices of:

Metcon Headquarters
763 Comtech Drive
Pembroke, NC 28372

Metcon - Raleigh Office
3050 Hammond Business Place Ste 121
Raleigh, NC 27603

Interested parties may secure project bid documents electronically by contacting:

Tina Harris
Metcon
(910) 521-8013 ext. 145,
estimating@metconus.com

BIDS WILL BE ACCEPTED FROM PRE-QUALIFIED BIDDERS ONLY. LAST MINUTE REQUALIFICATIONS WILL BE ACCEPTED UNITL (7) DAYS PRIOR TO BID DATE.
Bidders may request and receive upon request the partial set of documents needed for the scope(s) that

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 **4/24/2025 no later than 2:00PM at 2017 West Vernon Avenue, Kinston, NC 28504**. **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 April 23, 2025 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~~ $300,000.00 **(Addendum 1)** 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 contact documents. **$2,500.00 per day for each calendar day after Substantial Completion. $1,250.00 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. ******

Documents may be obtained for bidding purposes upon the conditions set forth in the Invitation to Bid. Prequalification is required to submit a bid to the Construction Manager. Public prequalification period has been closed. Should you wish to try and prequalify, please contact Ms. Tina Harris at 910.521.8013. Since the period has been closed, the CM will make every effort to get your firm prequalified, although no guarantees can be made.

All Bidders are responsible to review the complete set of documents. If Contractor utilizes partial sets of proposed Contact Documents, that Contractor shall assume full responsibility for any errors or omissions resulting from the use of incomplete documents.

Upon receipt of Contract Documents, Bidder shall immediately check that all documents listed in **"Exhibit C List of Contract Documents"** are available and included.

Examination of Site and Contract Documents
Before submitting a proposal, a bidder is required to carefully examine the Contract Documents, all Addenda issued prior to the opening of bids, visit the site, note existing conditions and limitations effecting their work to be performed under this Contract and include and qualify all costs for same.

Before submitting a proposal, bidder agrees that he will not make any claim for damages or additional compensation because of lack of information, or because of any misunderstanding, or because of any misinterpretation of the requirements of this Contract.

The Bidder's attention is directed to Section entitled **"Project Special Conditions"** for a listing of requirements that affect ALL BIDDERS.

Pre-Bid Conferences
On **3/11/2025** a Pre-Bid Conferences will be held at **2:00PM** for all bid packages. The purpose of the conference is for considering questions posed by potential Bidders and to encourage MWSB participation for 1st tier and 2nd tier subcontractors. It is HIGHLY recommended that all Bidders attend. **Prior to the pre-bid, the Project Manager will conduct a site walk at 10:00AM on 3/11/2025.**

The pre-bid meeting will be held in person at Lenior County School Board Meeting Room - 2017 West Vernon Avenue, Kinston, NC 28504 and via Zoom at **2:00PM**

To Join Pre-Bid Meeting:
https://metconus.zoom.us/j/9105218013?pwd=6JIHPMZ3VkSO04568L97Cu812mzsOn.1&omn=83105090984
Or dial in phone number: +1 646 876 9923 US (New York)
Meeting ID: 910 521 8013
Passcode: 8013

Representatives of the Project team will be available to answer questions. All questions in reference to this project must be submitted electronically to the preconstruction manager, Andrea Avery aavery@metconus.com in the form of an RFI, no later than **4/4/2025 by end of business day.**

Explanation to Subcontractor
In the event of discrepancies, omissions, or errors in the Contract Documents, or in the event of doubt on the part of a subcontractor as to their intent of meaning, the bidder shall direct, **IN WRITING** to:
Metcon, Inc., attention of:

Andrea Avery , aavery@metconus.com

Where appropriate, interpretations will be confirmed by Addenda to the bid documents to all Bidders who have been issued documents. Directions received from other parties and not confirmed via Addenda shall not be considered. Such Addenda issued during the bidding period shall be acknowledged on the Proposal Form and shall be included in the Contract at the time of award.

All addenda issued shall take precedence over the portions of the proposed Contract Documents concerned. Except in unusual circumstances, Addenda will be issued to reach the Bidder not later than **07 days prior** to the day set for receiving bid proposals. Clarifications may be issued right up to the day before the bid. Each Bidder shall acknowledge receipt of each Addendum in the space provided on the Proposal Form.

Substitutions
The attention of potential Bidders and other interested parties is called to the requirements and conditions set forth in the Specifications regarding product options and prior approval for any and all substitutions. Any approved substitution shall be announced via Addenda. Substitutions are considered any request for products and or manufacturers which are not listed as a Basis of Design in any given specification section.

Schedule
The attention of the Bidder is directed to **"Project Schedule"** and **"Project Logistics Plans"** included in the Contract Documents. The subcontractor will be required to participate in schedule reviews and compliance with all schedule requirements in the Contract. The successful bidder shall be prepared to show evidence of their firm's capability to perform the work with adequate supervision, manpower, materials, and equipment.

Form of Contract
The successful Bidder is required to execute an Agreement between the Construction Manager and Subcontractor in accordance with Section **"Subcontract Agreement"** and **"Exhibit A through Exhibit N"** subcontract forms included as part of the Contract Documents.

After the CM has received approval from the Owner, the successful Bidder shall receive a Notice of Award. Upon receipt of the Notice of Award, the Bidder shall.
1) Submit all required Bonds on the forms provided in the Contract Documents.
2) Submit all insurance certificates as prescribed in the Contract Documents.
3) Execute the contract as provided.

Failure to complete these requirements within Seven (7) calendar days after Notice of Award may be considered default under the obligation of the contract and bid security, if any, may be forfeit. Failure or refusal to furnish bonds, if required, and insurance policies or certificates, schedules of values or other documents in a form satisfactory to the Construction Manager will not be considered an allowable cause for delay.

Bidder Qualifications
BIDS WILL BE ACCEPTED FROM PRE-QUALIFIED BIDDERS ONLY. PREQUALIFICATIONS WERE PUBLICALLY ADVERTISED AND DUE FOR SUBMISSION BY **November 14, 2024**. LAST MINUTE REQUESTS FOR PREQUALIFICATION WILL BE ACCEPTED UNTIL AND ARE AVAILABLE BY CALLING THE CM'S OFFICE AT 910.521.8013. No consideration will be given to Bidders' Qualifications if adequate time for review is not available to the Construction Manager.

Formal Bid Package Procedures

For a proposal to be considered it must be in accordance with following instructions:
Proposals
Proposals must be made in accordance with the Form of Proposal provided **"CMR 00 41 00 BID Proposal Form",** and all blank spaces for bids, alternates, and unit prices applicable to Bidder's Scope of Work shall be properly filled in. When requested alternates are not bid, the proposal detached from specification will be considered and will have the same force and effect as if attached there to. Faxed and/or Email proposals will not be considered. Numbers shall be stated both in writing and in figures for the base bid and alternates.

The proposal shall include the following:
a. Bid Checklist
b. Bid Proposal Form
c. Identification of Minority Business Participation form
d. MBE Affidavit A (Listing of Good Faith Efforts) **or** Affidavit B (Intent to Perform Contract with Own Workforce)

e. Form of Bid Bond **or** Cashiers Check

Any modifications to the Bid Proposal Form (including alternates and/or unit prices? May disqualify the bid and may cause the bid to be rejected.
The Bidder shall fill in the Bid Proposal Form as Follows:

a. If the documents are executed by a sole Owner, that fact shall be evidenced by the work "Owner" appearing after the name of the person executing them.
b. If the documents are executed by a partnership, that fact shall be evidenced by the word: Co-Partner" appearing after the name of the partner executing them.
c. If the documents are executed on the part of a corporation, they shall be executed by either the president or the vice president and attested by the secretary or assistant secretary in either case, and the title of the office of such persons shall appear after their signature. The seal of the corporation shall be impressed on each signature page of the documents.
d. If the proposal is made by a joint venture, it shall be executed by each member of the joint venture in the above form for sole Owner, partnership or corporation, whichever form is applicable
e. All signatures shall be properly witnessed
f. If the Contractor's license of a Bidder is held by a person other than an Owner, partner or officer of a firm, then the licensee shall also sign and be party to the proposal. The title "Licensee" shall appear under his/her signature.

Proposals shall be addressed as indicated in the Notice to Bidders and shall be delivered, enclosed in an opaque sealed envelope, marked "SEALED BID, DO NOT OPEN" and bearing the project name, bid package number, name of the Bidder, address of Bidder, and the Contractor's license number if applicable. Bidders shall clearly mark on the outside of the bid envelope which Bid Package they are bidding.
Bidder shall identify on the bid the minority businesses that will be utilized on the project with corresponding total dollar value of the bid and affidavit listing good faith efforts or an affidavit indicating Work under Contract will be self-performed, as required by NCGS 143-128.2© and NCGS 143-128.2(f). Failure to comply with these requirements is grounds for rejection of the bid. The apparent low bidder and any other Bidder so requested, will within seven (72) hours after the bid opening submit an affidavit that includes a description of the portion of Work to be executed by minority businesses, which is equal to or more than the applicable goal, or submit an affidavit documenting the Contractor's good faith efforts to meet the goal.
It Shall be the specific responsibility of the Bidder to deliver his bid to the proper official at the selected place and prior to the announced time for the opening of bids. Late delivery of a bid for any reasons, including delivery services, shall disqualify the bid.

Submission of Proposals
HAND DELIVER and submit original proposal, sealed in an enveloped plainly marked on the outside as a bid, at bid time to:

BID AT: 2017 West Vernon Avenue, Kinston, NC 28504
BID TIME: 4/24/2025 at 2:00PM
FOR: EB Frink Middle School
2017 West Vernon Avenue, Kinston, NC 28504
The Name of the Bidder
License Number of the bidder
(Bid Package Number)
(Bid Package Name)

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 April 23, 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.

Due to the current pandemic, Metcon will be following new guidelines for construction meetings and live broadcast bid opening via ZOOM.

Join Zoom Meeting for Bid opening:

https://metconus.zoom.us/j/9105218013?pwd=6JIHPMZ3VkSO04568L97Cu812mzsOn.1&omn=83516842967
OR Dial-in Phone Number: +1 646 876 9923 US (New York)
Meeting ID: 910 521 8013
Passcode: 8013

DUE TO POSSIBLE DELAYS IN US POSTAL OR DELIVERY SERVICES, IT IS HIGHLY RECOMMENDED THAT BIDS BE HAND DELIVERED, OR SENT VIA EXPRESS MAIL OR DELIVERY SERVICE WITH SUFFICIENT TIME TO GUARANTEE DELIVERY. It is solely the Bidder's responsibility to assure that the bids arrive by the date, time and location stipulated in the Invitation to Bid. **Late Bids are subject to rejection**.

Withdrawal of Proposals
The Bidder may withdraw his bid proposal, either personally or by written request, at any time prior to the time scheduled for opening of proposals. No Bidder may withdraw his proposal without the Construction Manager and Owner's consent for a **period of ninety (90) days** after the proposals have been opened, and all proposals shall be subject to acceptance by the Owner during this period.

Acceptance or Rejection of Bid Proposals
The Owner, Construction Manager, and Architect reserve the right to reject any and all bid proposals and to waive any informalities and irregularities in the bid proposals and the bidding process.
If awarded, the Subcontract will normally be awarded to the Bidder who has proposed the lowest contract sum and is the most responsible responsive bidder. However, the Owner, Construction Manager, and Architect reserve the right to award a Contract to the Bidder considered best qualified for the work and may therefore select a Bidder who has proposed other than the lowest Contract Sum. The Construction Manager may make such investigations, as they deem necessary, to determine the ability of the Bidder to perform the work and the Bidder shall furnish to the Construction Manager all such information and data for this purpose. The Construction Manager reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Construction Manager that such Bidder is properly qualified to carry out the obligations of the Subcontract. Unit Prices and Alternates are to be responsive. Non-responsive unit prices or alternate pricing will be evaluated in determining if any overall bid is non-responsive.
It is the intent of the Owner and CM to evaluate and award the work package(s) on the basis of "Base Bid" for each bid package. Alternates may be used in numerical order to determine the low bid amount. The Owner and CM may elect to exercise the right to accept any or all of the Alternates listed in the Bid Manual and Proposal Form for the various bid packages. The alternates as listed will remain open for the duration of the bid proposal. Additive alternates may be used in determining award. Any utilization of additive alternates is to be for determination only of work value if subsequently accepted and incorporated. However, the Owner, Construction Manager, and Architect also may reject any of the alternates set forth in the proposed Contract Documents.

I. SAFETY

A. Maintaining Site Safety will be the primary goal of all construction operations. Each contractor is responsible for the environmental, health, and safety of their works, subcontractors, visitors, and suppliers at the project site in accordance with statutory requirements, and provisions of this contract document. All subcontractors are to provide a detailed safety plan for review and comment prior to commencing work. This plan shall conform to the Construction Manager's, (CM's) environmental, health, and safety goals and detail how all potentially hazardous operations will be managed to maintain a safe environment for onsite workers, surrounding university population, and the general public. CM's site-specific safety and health procedure for this project is contained in Exhibit "J".

B. Each Subcontractor will work in compliance with all federal and state OSHA standards, as well as any Construction Manager and Owner policies.

C. Any worker found violating a safety standard will be asked to stop and abate the hazard immediately. At this point, the worker will be issued a written warning by CM's Superintendent. In the event the same worker is found violating the same or another safety standard, the worker will be asked to leave the site for three (3) days and fines may be assessed per the project safety and health procedure manual. In the event representatives of the CM still feel that continued individual or crew safety performance is not improving, the subcontractor will be asked to replace the supervision onsite.

D. The subcontractor and their employees must attend the weekly safety meetings presented by the CM's Superintendent. A mandatory safety orientation will take place before work begins, all employees must be present and attend. NO SUBCONTRACTOR WILL BE ALLOWED TO PERFORM WORK UNTIL MANDATORY SAFETY ORIENTATION IS COMPLETED ON-SITE AND EACH EMPLOYEE HAS RECEIVED A HARD HAT ORIENTATION DECAL THAT SHALL BE WORN AT ALL TIMES.

E. Subcontractor shall provide a list of all sub-tier subcontractors prior to beginning work in the form of a Tier notification letter. The sub-tier subcontractor shall be made aware of all of CM's safety policies and insurance requirements and expectations prior to beginning work. All sub-tier subcontractors will be held to the above policies and shall cooperate with CM's safety supervision. In addition, MANDATORY SAFETY ORIENTATION IS TO BE COMPLETED ON-SITE AND EACH EMPLOYEE MUST RECEIVE A HARD HAT ORIENTATION DECAL THAT SHALL BE WORN AND DISPLAYED AT ALL TIMES.

F. Subcontractor shall fully indemnify and reimburse CM against any fines or penalties issued to CM due to the failure of Subcontractor or its sub-subcontractors to perform in a safe and compliant manner.

G. Failure to abide by CM's safety requirements will be considered a breach of the contract and can subject the Subcontractor to various disciplinary actions including, but not limited to, termination. See Termination of Subcontractor, of the Subcontract.

H. The foregoing Contractual Safety Requirements are in addition to and not in lieu of, any requirements set out elsewhere in the contract documents.

I. The subcontractor and subcontractors second tier subcontractors SHALL HAVE A COMPETENT PERSON ON SITE AT ALL TIMES. In the event that a sub-tier is on site; the subcontractor SHALL HAVE A COMPETENT PERSON ON SITE AT ALL TIMES. This competent person will have the knowledge and ability to access and enforce OSHA standards in relation the scope of the subcontractor's work.

J. Subcontractor will ensure that all his work and jobsite practices conform to all federal, state and local environmental, health, and safety requirements. Each subcontractor is required to submit their Site-Specific Safety Submittals (Reference Exhibit "J") for review and approval prior to start of work on site. In addition, the subcontractors must attend the Safe Start meeting prior to mobilization and comply with CM's Environmental, Health, and Safety program. The Subcontractor will maintain an aggressive accident prevention program including Personal

Protective Equipment (PPE), Hazardous Communication Program, weekly toolbox meetings employee orientation and training, audits/inspections, fall protection, and proper use of tools. The "safety representative" shall conduct and document daily environmental, health, and safety audits/inspections, identify unsafe conditions or work practices, and provide appropriate corrective measures in a timely manner. Copies of the audit/inspection reports will be forwarded to CM. Any persons not conforming to strict environmental, health, and safety violations observed on the site, shall cause the offending subcontractor's work to be halted dues to serious environmental, health, or safety violations, and the Subcontract General Conditions shall be strictly enforced.

K. All contractors and their respective subcontractors will be required to wear a Safety Site Specific Orientation Decal supplied by the Construction Manager, CM, which contains an identification number of the employee. The sticker will be placed on the hard hat and worn in plain view by the employee at all times.

II. SITE CONDITIONS

A. Access to the site is directed by CM. Refer to the Project Logistics Plan, CMR 00 35 00 Site Logistics Plans or civil drawings for the proposed access road and construction laydown areas. Subcontractor shall not be allowed to use any other Owner property.

B. Traffic Control and site access to an occupied, active site and its services or adjacent properties is to remain a TOP PRIORITY. All equipment, material delivery and manpower shall be managed and operated under strict control to assure no interference with public and traffic adjacent to the work site. Each Subcontractor shall be held fully responsible for coordinating and directing their personnel; equipment, and material during off peak traffic cycles. Traffic on public streets shall not be interfered or delayed. No vehicles are to exceed the site speed limit. The Subcontractor shall be held fully responsible for any damage caused by their operators. Subcontractor shall use only designated entrances to the project site as authorized and coordinated with the Construction Manager. Subcontractor to provide adequate and trained personnel for flagging traffic control as required for their material shipments. If required CM will provide or supplement these personnel with the cost to be borne by the subcontractor.

C. Subcontractor shall be responsible for cleaning of all personnel vehicle, equipment and delivery truck tires prior to exiting the site. Subcontractors shall be responsible for cleaning of contaminated site entrances and public streets caused by the performance of their work. Subcontractor shall provide adequate dust control specifically generated in performance of their work.

D. Subcontractor is responsible for all means of hoisting required in the performance of his work, and stocking of materials to be incorporated into the work. Special temporary measures required by Subcontractor to access the building or other portions of the site are the responsibility of the Subcontractor. Subcontractor will coordinate the location of any temporary areas made available for interim staging of materials with CM Supervision and interface with other operations as required to allow the overall prosecution of the work. Subcontractor remains responsible for his items/materials located within the project, until time of Substantial Completion. Staging areas shall be designated as construction and laydown areas on the civil drawings.

E. Communications by construction personnel with students, university staff, or faculty personnel is prohibited and will be grounds for immediate dismissal. Supervision communications to be routed through CM & CM Superintendent.

F. Due to limited space at the site, subcontractor is hereby notified that temporary storage of material swill be limited and strictly controlled by CM's superintendent. Prior to making or scheduling any delivery to the site, subcontractor will coordinate such with the superintendent and make provisions for having the necessary equipment and manpower to unload and distribute his materials. Failure to abide by this shall constitute cause to send such materials back. Temporarily stored materials shall be located with-in the limits of areas designated as construction and laydown areas on the civil drawings.

III. GENERAL

A. The term “provide” as used in the Bid Scope of Work descriptions shall be described as all labor, materials, and equipment necessary for a complete and functional installation.

B. Each Subcontractor is to provide a personnel member with authority who will report directly each day to the CM’s project superintendent to discuss and coordinate schedules, manpower, safety, material handling, cleanup, etc. A daily subcontractor’s report is also required to be delivered to the job office each day. The report will include listing the number of men and describing their respective work activities for the previous day. A daily schedule update will be required at the job office each day. This on-site schedule board will be used to update everyone on the daily progress towards completion dates and milestones.

C. Subcontractors shall have primary responsibility and liability for any damages or losses which may have incurred, specifically including but not limited to, damage or deterioration of his installed work from unidentified causes.

D. Owner/CM shall not be held responsible for damage, loss, or vandalism of subcontractor’s tools, equipment, and materials and of in-place work until Substantial Completion of overall project.

E. Unless specifically addressed elsewhere in this agreement, Subcontractor shall finish all hoisting required to perform its work and shall coordinate same with the CM. Subcontractor will be responsible for all unloading of materials and equipment and loading onto hoist and/or cranes. Subcontractor shall exercise due and proper care when loading and unloading materials and/or equipment and shall meet or exceed all safety requirements, including those of OSHA.

F. Any changes of scope requiring additional cost or time from the owner must be submitted on the project Cost of Change Worksheet with all associated required information.

G. The subcontractor shall clean up debris, scrap material and other trash resulting from their scope of work **as work progresses**. Trash and debris shall be segregated and place in receptacles provided by others. This shall include all break and lunch trash generated by the Subcontractors personnel.

H. Mandatory attendance is required for project meetings as requested by CM Supervisory personnel.

I. Within 7 days of Subcontract award, submit a schedule of major material delivery dates and update the dates at scheduled progress meetings.

J. This Subcontractor will cooperate in the resolution and coordination of conflicts with other trades.

K. Restrictions on Asbestos use: All Contractors shall certify, and shall furnish adequate manufacturer’s certification, that no new materials used in the construction of this work contain any form of asbestos. Abatement containment areas will not be breached or damaged.

L. Any penalty assessed to the Contractor or Owner as a direct result of this Subcontractor’s work will be charged to the Subcontractor, including any OSHA safety fines that are caused by the Subcontractor or his personnel.

M. If the Owner or Engineer assesses re-inspection costs for punch list reviews after a second inspection due to this Subcontractor’s deficiencies, that cost will be assessed to the Subcontractor.

N. Any penalty assessed to the CM by the owner due to delays directly attributable to the Subcontractor’s work will be assessed to the Subcontractor.

O. All areas of the project disturbed by the Subcontractor’s work shall be restored to the condition in which the area was prior to the start of that work.

P. Subcontractor is responsible for protecting his work from damage by other trades.

Q. Profanity or other offensive actions will not be tolerated at the project. Violators will be directed to leave the site.

R. The Subcontractor is cautioned to protect all concrete floors from stains. After slab-on-grade installation: no eating, drinking, tobacco chewing, smoking, or mechanical lifts will be permitted

inside the building. Any damage to concrete flooring attributable to the Subcontractor's employees will be cleaned or replaced at the Subcontractor's expense.

S. No radios or audio equipment will be permitted to be used on the project during work hours. Failure to comply will result in direction for the violator's replacement by other personnel.

T. Work hours other that the normal 50 hour, 5-day work week shall be expected and reviewed in advance by CM supervisory personnel to meet the project schedule. Subcontractor scopes of work that are identified on the Critical Path of the project schedule should expect a six (6) day per week, ten (10) hours per day schedule.

U. All Owners' facilities are off limits to construction personnel. This includes toilets, break areas, snack bars, cafeterias, vending machines, etc. Breaks are only allowed in specifically designated areas. Sanitary facilities have been provided for your use. DO NOT relieve yourself anywhere else. This will be grounds for immediate termination.

V. Use only routes to and from construction areas as directed by the CM. Anyone outside these designated areas will be removed from the job.

W. Do not interact or talk with the Owner's staff, except when the discussion is related to the work or in case of any emergency.

SITE RULES

A. All construction personnel will always be required to wear HARD HATS & SAFETY VESTS bearing their company name and logo prominently during construction. **100% fall protection is required above six feet (6'), including on any lift equipment.**

B. Proper clothing must be worn at all times (i.e. long pants, shirts with sleeves, sturdy heavy work shoes, etc.).

C. Microwaves are prohibited on jobsites.

D. Properly dispose of all trash generated at lunch break times.

E. Do not whistle, shout, or cat call at the general public or Owner's employees or students.

F. No radios, or headphones not limited to Bluetooth for phone or radio are allowed on the jobsite. Safety includes hearing protection and hearing any warnings.

G. All Subcontractors will take measures to keep noise levels to a minimum on the construction site.

H. Ground Fault Circuit Interrupters must be used with all receptacles that are not part of the permanent wiring. This includes the use of extension cords. All extension cords must meet OSHA regulations as prescribed in subpart "K" (SJ, SJO, SJT, SJTO, S, SO, ST, STO).

I. Each employee must be trained on ladder safety. Stepladders must be fully extended, and employees may not sit or stand on the top or top step of any stepladder. Extension ladders must be firmly supported and secured.

J. A-frames ladders are prohibited, platform ladders or podium ladders only.

K. Aisles and passageways must be kept clear at all times.

L. Each Subcontractor must provide required training for his employees (hazard communication, fall protection, forklift operator, etc.), and documentation provided.

M. SDS must be provided to CM for all chemicals used or stored at this jobsite.

N. All manufacturers machine guarding will be in place at all times. This includes table saws, chop saws, and grinders.

O. Eye and face protection must be utilized with any type of abrasive grinding or cutting.

P. All employees are expected to attend CM weekly safety meetings.

Q. All federal, state, and local regulations must be strictly followed.

R. All employees must be aware that the Owner's employees, visitor, and the general public in the area are not concerned with construction hazards. All areas must be constantly kept free of all hazards.

S. CM strictly prohibits the use, possession, distribution, or influence of alcohol and all controlled substances on its premises, facilities, or work sites.
T. Firearms are not permitted on job grounds at any time.
U. No smoking inside building or storage areas
V. All employees shall be provided fresh clean water at all times, with individual cups and a trash container. The common drinking cup is prohibited.
W. CM will ask any Subcontractor with employees who do not adhere to the above regulations to remove those employees from the project. Subcontractors with repeat violations will not be invited to bid future work.
X. **EB Frink Middle School may require additional safeguards for any cutting, welding, brazing, or any open flame work. A one (1) hour, manned, fire watch is required at the completion of any work during the workday that involves such activities.**

PROPERTY INSURANCE

A. The Owner or the CM shall provide Builders' Risk Insurance for 100% of the contract amount. This insurance shall include the interests of the Owner, the CM and Subcontractors of all tiers and insure against perils of Fire, Lightning, Wind, Vandalism, Collapse, and Theft coverage at a minimum. When requested in writing, the CM shall provide the Subcontractor with copies of the Builders' Risk policy/policies in effect for the Project. The CM shall notify the Subcontractor if the required property insurance policies are not in effect.

B. If the required property insurance is not in effect for the full value of the Subcontractor's work, then the Subcontractor shall purchase insurance for the value of the Subcontractor's work, and the Subcontractor shall be reimbursed for the cost of the insurance by an adjustment in the Subcontract Sum.

C. Subcontractor's materials and equipment required for the Subcontractor's work, which are stored off site or in transit and not covered by the Project property insurance, shall be the Subcontractor's responsibility to maintain. The Subcontractor has the right to submit for payment for stored materials as prescribed in the contract.

D. The Builders' Risk policy will have a deductible of *$10,000*. In the event of loss under the policy the Owner or the CM shall pay the deductible. However, if the loss is the theft of Subcontractors' materials on site the deductible shall be allocated to each Subcontractor as the ratio each Subcontractor's loss bears to the total amount of the loss.

PLANS AND SPECIFICATIONS & REPORTING

A. The CM will provide each subcontractor one set of electronic Contract Documents at no cost. Additional drawings as required for the performance of the subcontractor's work are available at cost.
B. Subcontractor will provide CM with a daily report of his work activities no later than 9:00 AM of the following business day. Such report shall list the personnel and equipment subcontractor had on the project site that day, the area of the project worked on and the nature of the subcontractor's work. Such report shall also list any accidents that occurred that day (including near misses), visitors the subcontractors had on the site that day, any inspections requested or performed that day, any testing performed by the subcontractor and any quality control issues that subcontractor encountered. The daily report shall not be considered adequate notice to the CM of any delays encountered, unforeseen conditions, extra work undertaken, etc. Such items may be noted on the report, but Subcontractor shall provide CM with proper written notice of such items in accordance with the notice provisions of the Contract Documents.

ENGINEERING/LAYOUT

A. Each Bidder must include in his proposal all costs for engineering, surveying, and field measurements, which will be required to complete his work. Two (2) intersection base lines and two (2) benchmarks along with the building corners will be provided on site prior to foundation construction. Maintenance of established baselines and benchmarks will be subcontractor's responsibility. The subcontractors will be responsible to protect and avoid the established baselines and benchmarks. Any maintenance, if required, shall be performed by the CM's surveyor and the subcontractor responsible for damage shall be responsible for all costs to re-establish the baselines and benchmarks.

SITE CLEAN-UP

A. **Subcontractors, on a daily basis, shall clean his work areas and deposit, daily all trash and debris generated by him, into a dumpster container placed on site, which will be provided by Construction Manager.** No toxic or otherwise illegal items are to be disposed of in this dumpster. Construction Manager is responsible for servicing/unloading of the dumpster and retains the right to disallow disposal of unusually heavy or bulk items from being disposed of through this dumpster. Burning or dumping of any rubbish, debris or waste materials on the jobsite or adjoining properties is strictly prohibited. **Any subcontractor failing to abide by this article, upon twenty-four (24) hours written notice by the CM, will be back charged for all costs associated with the collection of his debris and clean-up of his areas.**

VI. RESPONSIBILITY FOR COMPLETION

A. The Subcontractor shall furnish such manpower, materials, facilities, and equipment and shall work such hours, including night shifts, overtime operations and Sundays and Holidays, as may be necessary to insure the progress and completion of the Work in accordance with the approved and currently updated progress schedule and if it becomes apparent from the current schedule that the Work will not be completed within the Contract Time, the Subcontractor agrees that he will. As necessary, take some or all of the following actions at no additional cost to the Construction Manager or Owner, as required to eliminate the backlog of Work.

B. Increase manpower in quantities and crafts as necessary

C. Increase the number of working hours per shift, shifts per day, and working days per week, the amount of equipment, or any combination of the foregoing.

D. Reschedule activities to achieve maximum practical concurrence.

E. The Construction Manager may require the Subcontractor to submit a recovery schedule demonstrating his program and proposed plan to make up lag in scheduled progress and to ensure completion of the Work within the Contract time. If the Construction Manager finds the proposed plan not acceptable, he may require the Subcontractor to submit a new plan. If actions taken by the Subcontractor or the second plan proposed are not satisfactory, the Construction Manager may require the Subcontractor to take any of the actions set forth in the Subcontract without additional cost to the Construction Manager or the Owner, to make up the lag in scheduled progress.

F. Failure of the Subcontractor to substantially comply with the requirements of the Subcontract may be considered grounds for a determination by the Construction Manager and the Owner, pursuant to the Subcontractor Agreement, that the Subcontractor is failing to prosecute the Work with sufficient diligence to ensure its completion within the Contract time.

VII. LIQUIDATED DAMAGES FOR DELAY

A. The damages incurred by the Construction Manager due to the Subcontractors failure to complete the Work within required Milestone dates and the Contract Time, including any extensions thereof, shall be in the amount set forth in the Owner-Construction Manager Agreement. For each consecutive calendar day beyond the Contract Time (Sundays and all Holidays included) for which the Subcontractor shall fail to complete the Work.

B. In the event that Liquidated Damages are assessed by the Owner against the Construction Manager, Subcontractor shall be liable for that portion of the damages attributable to Subcontractor's failure to meet completion and milestone dates. Construction Manager will provide written notice should Subcontractor delay the work.

C. This section does not eliminate the Subcontractors responsibility to comply with the local noise ordinances and all other applicable laws, regulations, rules, resolution and permit requirement.

VIII. WAIVERS OF SUBROGATION

A. The Contractor and Subcontractor waive all rights against each other and the Owner, the Architect, separate contractors, and all other subcontractors for loss or damage to the extent covered and paid for by Builder's Risk or any other property or equipment insurance except such rights as they may have to the proceeds of such insurance; provided, however, that such waiver shall not extend to the acts of the Architect, if any. Upon written request of the Subcontractor, the Contractor shall provide the Subcontractor with either (1) a copy of the Builder's Risk policy of insurance, (2) a Certificate of Insurance identifying coverage, or (3) any other property insurance in force for the Project and procured by the Contractor. The Subcontractor shall satisfy itself as to the existence and extent of such insurance prior to commencement of the Subcontractor's work. If the Owner or Contractor has not purchased Builder's Risk insurance for the full insurable value of the Subcontractor's work less the applicable deductible, then Subcontractor may procure such insurance as will protect the interests of the Subcontractor, its subcontractors and their subcontractors, in the work, and, by appropriate Subcontract Change Order, the cost of such additional insurance shall be reimbursed to the Subcontractor. If not covered under the Builder's Risk policy of insurance or any property or equipment insurance required by the Contract Documents, the Subcontractor shall procure and maintain at the Subcontractor's own expense property and equipment insurance for portions of the Subcontractor's work stored off the site or in transit and for Subcontractor's tools and equipment located on the site.

B. Subcontractor waives all rights against Contractor, the Owner, the Architect, and all other subcontractors for loss or damage to the extent covered and paid for by insurance Subcontractor is required to furnish under this Agreement.

IX. REFERENCES TO CONTRACT DOCUMENTS

Subcontractor is to refer to other sections for additional supplementary General Condition Items, which are incorporated into the Subcontract Agreement

BID OPENING SCHEDULE

Thursday April 24, 2025 at 2:00 PM

- BP0150 General Trade
- BP0170 Final Cleaning
- BP0330 Turnkey Concrete
- BP0340 Hollow Core Planks
- BP0400 Turnkey Masonry
- BP0510 Structural Steel
- BP0710 Dampproofing, Waterproofing, Firestopping & Joint Protection
- BP0740 Wall Panels
- BP0750 Turnkey Roofing
- BP0810 Doors, Frames & Hardware
- BP0833 Specialty Doors (Coiling Doors & Grilles & Garage Doors)
- BP0840 Aluminum Windows - Entrance - Storefront - Curtainwall
- BP0920 Metal Framing and Gypsum Board Assemblies
- BP0930 Hard Tile
- BP0950 Acoustical Ceilings & Panels
- BP0960 Resilient Flooring
- BP0962 Athletic Flooring
- BP0966 Terrazzo Flooring
- BP0967 Epoxy Flooring
- BP0990 Painting & Coatings
- BP1011 Visual Displays
- BP1014 Signage
- BP1020 Interior Specialties
- BP1050 Storage Specialties
- BP1073 Awnings & Canopies
- BP1140 Food Service Equipment
- BP1161 Stage Equipment
- BP1166 Athletic Equipment
- BP1220 Window Treatments
- BP1230 Manufactured Casework
- BP1266 Telescoping Bleachers
- BP2100 Fire Suppression
- BP2200 Plumbing
- BP2300 Heating, Ventilating, And Air Conditioning (HVAC)
- BP2351 Geothermal System
- BP2600 Electrical & Fire Alarm
- BP3100 Turnkey Sitework
- ~~BP3231 Fence & Gates~~ **(Addendum 3)**
- BP3290 Landscaping

31 13 - Bid Opening Schedule

Time: **4/24/2025 at 2:00PM (Please refer to CMR 002413 List of Bid Packages for specific time of bid opening)**

Location: Lenior County School Board Meeting Room
2017 West Vernon Avenue, Kinston, NC 28504

Hand Delivery on Bid Day:

Andrea Avery and/or David Jackson
2017 West Vernon Avenue, Kinston, NC 28504

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 April 23, 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.

Bid opening will be done via Zoom under new guidelines for construction meetings:

To join Bid Opening Zoom Meeting:
https://metconus.zoom.us/j/9105218013?pwd=6JIHPMZ3VkSO04568L97Cu812mzsOn.1&omn=83516842967
OR Dial-in Phone Number: +1 646 876 9923 US (New York)
Meeting ID: 910 521 8013
Passcode: 8013

CMR 00 31 13.33 - Project Schedule

Please see **Exhibit D Project Schedule** for activities, duration and critical path. Dates are subject to change based upon Notice to Proceed from the Owner.

The standard work week shall be five (5) days (Monday through Friday). Each workday shall be ten (10) hours per day. However, work weeks shall expand to include Saturday and/or Sunday as required to recover weather days as needed and/or meet the project schedule as determined by the Construction Manager.

The following page indicates the site logistical planning. Please note the location of the main construction entrance and construction parking. We need everyone to ensure they provide the upmost care and consideration to the surrounding buildings and students during our construction phase. All traffic and/or visitors will be required to park in the designated construction parking and report to the construction trailer before entering any gates to the sites.

Daily deliveries and work plans will be required to ensure we are maximizing all of the laydown space we have been provided.

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 April 23, 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.

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

PLEASE PROVIDE INFORMATION TO CONTACT AFTER BID

Company Name: _____

Contact Name: _____

Contact Number: _____

Contact Email: _____

EB Frink Middle School

BID PACKAGE # AND TITLE: _____

BID PROPOSAL OF: _____
(Hereinafter call "BIDDER") **(Name of Firm)**

A(N) _____ organized and existing under the laws of the State of _____
(Corporation, Partnership or Individual)

BIDDER'S North Carolina STATE LICENSE NUMBER: _____

The bidder, in compliance with the Instruction to Bidders for the above referenced project – Bid Package, having examined the complete contract documents including plans, specifications, and addenda issued by Metcon and the Bid Manual prepared by Metcon, Construction Manager, dated **(Date)** and being familiar with the site of the proposed work, schedule requirements, and with all of the conditions surrounding the construction of the proposed project, including availability of materials and labor, hereby proposes to furnish all labor, materials, engineering, permits, fees, taxes, insurance, bonds if required, scaffolding, hoisting, tools, equipment, machinery, rentals, transportation, supervision, clean-up, and safety measures to perform all work and furnish all services necessary to provide the entire scope of work indicated in this Bid Package and Scope of Work, for the prices indicated on this Form of Proposal. These prices are to cover all expenses incurred in performing the work required for this Bid Package Scope of Work including all alternates and allowances.

The Bidder acknowledges that he/she has read and familiarized him or herself with the Minority, Woman, and Small Business Enterprise Program, and further agrees to fully incorporate and participate with this program. The Bidder has also completed and attached to this bid proposal, the required forms entitled either:

"Affidavit 1 – List of Good Faith Efforts" or "Affidavit 2 – Intent to Self-Perform"

The Bidder agrees, that if a written notice of acceptance of the bid is mailed or delivered to the undersigned within ninety (90) days after the proposal due date , to enter into a Subcontract Agreement with the Construction Manager for the bid amount indicated in the appropriate spaces on this form, which is based upon the information contained in the plans and specifications, addenda, the Bid Manual, and the Scope of Work defined in Exhibit A – Scope of Work, and including work that might be considered a part of this trade's standard scope of work, but is not specifically indicated herein. The bidder further agrees to, within seven (7) calendar days, deliver to the Construction Manager a contract properly executed, insurance certificates, and if required, a Performance and Labor & Material Payment Bond.

After Bid Proposals are received, tabulated, and evaluated by the Construction Manager, and the successful Bidder for each Bid package has been determined, said Bidder agrees to meet immediately with the Construction Manager for purposes of determining that the Bidder has included a complete scope of work in their proposal. For purposes of these meetings, the Bidder agrees to provide herein a complete, detailed cost breakdown, a list of all Sub-Subcontractors, a list of all Suppliers, a schedule of anticipated manpower, a list of all items, materials and their manufacturers proposed for use in the work as required by the Construction Manager.

The Bidder acknowledges receipt of the following Addenda issued by the Construction Manager:

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

BASE BID

The undersigned agrees to perform the entire Scope of Work for this Bid package, as described in the Contract Documents, Addenda, and Bid Manual. Pricing is to be provided as follows:

Item 1 - Base Bid:

_____ Dollars,

($ _____).

Item 2 - Performance and Payment Bonds (if not required insert N/A):

_____ Dollars,

($ _____).

Item 3 - (Total of Item 1 and 2):

_____ Dollars,

($ _____).

Show amount in both words and figures, in case of discrepancy, the amount shown in words shall govern.

All North Carolina State Sales and Use Taxes or Local Sales and Use Taxes are included in the above Base Bid and Alternates (including taxes on purchased or rental of tools and equipment). Bidder agrees that this bid will remain good and may not be withdrawn for a period of ninety (90) days after receipt date of Bid Proposal.

Alternates

All alternates must be completed with words and a dollar figure. If the base bid is not changed by the acceptance of the alternate, the words "Zero", "No Change", "N/A" or Not Applicable is acceptable. Please do not leave **BLANK**.

Please see Specification 01 23 00 – Alternates and cover page of drawings for details.

ALTERNATE NO.01 – Replace LVT with Resinous Matrix Terrazzo Flooring:

Alternate No. 1A Replace LVT with Terrazzo in Lobby 100A

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

Alternate No. 1B Replace LVT with Terrazzo in Corridor 200.

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

Alternate No. 1C Replace LVT with Terrazzo in Corridor 300.

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

Alternate No. 1D Replace LVT with Terrazzo in Corridor 400.

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

Alternate No. 1E Replace LVT with Terrazzo in Corridor 500.

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

Alternate No. 1F Replace LVT with Terrazzo in Dinning 112.

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

ALTERNATE NO.02 – Door Hardware

Alternate No. 2A Cylinders and Keying (Owner Preferred)

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

ALTERNATE NO.03 – Access Control Systems

Alternate No. 3A Access Control Systems (Owner Preferred)

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

ALTERNATE NO.04 – Intercom (Owner Preferred)

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

ALTERNATE NO.05 – Direct Digital Control Systems (Owner Preferred) (Addendum 3)

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

ALTERNATE NO.06 – 100% Import Fill in leu of Onsite Borrow Pit (Addendum 1)

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

ALTERNATE NO.07 – Heavy Duty Pavement Section (Addendum 3)

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

ALTERNATE NO.08 – Remove Spray Foam Insulation Behind Metal Panels from BP0420 Scope of Work and add to BP0740 Scope of Work (Addendum 3)

_____ **Dollars,**

($ _____). *circle one Add or Deduct*

UNIT PRICES & ALLOWANCES

The Bid Packages that are affected by the following Unit Prices have been identified. Provide the unit cost for the following items as it pertains to the work in this contract. Prices are to include all direct cost of the work, taxes, overhead, profit, supervision, equipment, sub-subcontracts, materials, labor, etc. Prices shall remain in effect for the entire duration of the project. Unit prices will be used as a basis for adjustment of the contract total whether work is added or deducted. A unit price must be provided in the appropriate space on the Bid Proposal Form for all unit prices corresponding to your bid package.
Lump-sum and unit prices allowances are listed below. Construction allowances, if required, are included Bid Packages for each applicable trade package.

UNIT PRICE:
Please see Specification 01 22 00 – Unit Prices for details. Please refer to bid package scopes for required quantity.

Unit Price No. 1 – Exit Sign **$_____/Each**

Unit Price No. 2 – Surface Mounted Speaker/Strobe **$_____/Each**

Unit Price No. 3 – Smoke Detector **$_____/Each**

Unit Price No. 4 – Heat Detector **$_____/Each**

Unit Price No. 5 – Fire Alarm Pull Station **$_____/Each**

Unit Price No. 6 – Two Port Data Outlet **$_____/Each**

Unit Price No. 7 – Duplex Power Outlet **$_____/Each**

Unit Price No. 8 – Sidewalk **$_____/Square Yard**

Unit Price No. 9 – Site Bollards **$_____/Each**

Unit Price No. 10 – Woven Geo-Textile Separation and Stabilization Fabric In-Place. $_____/Square Yard

Unit Price No. 11 – Removal of Unsuitable Soils (Bulk) $_____/Cubic Yard

Unit Price No. 12 – Removal of Unsuitable Soils (Trench) $_____/Cubis Yard

Unit Price No. 13 – Removal of Rock (Bulk) $_____/Cubic Yard

Unit Price No. 14 – Replacement of Removed Unsuitable Soils or Rock with Off-Site Suitable Soils In-Place. $_____/Cubic Yard

Unit Price No. 15 – Replacement of Removed Unsuitable Soils or Rock with Off-Site Aggregate Base Course In-Place. $_____/Cubic Yard

~~**Unit Price No. 16 – Additional Site Irrigation $_____/Lump Sum**~~ **(Addendum 3)**

Unit Price No. A – Seeding $_____/Acre

Unit Price No. B – Precast Install Mobilizations (ADD) $_____/Each

Unit Price No. C – Precast Install Mobilization (Deduct) $_____/Each

Unit Price No. D – EV Car Charging Station $_____/Each

Unit Price No. E – Additional Fire Dampers $_____/Each

Unit Price No. F – Additional Smoke Dampers $_____/Each

Unit Price No. G – Ardex Feather Finish – 10 LB Bag **$_____/Each**

Unit Price No. H – Ardex V100 Self Leveling Underlayment – 50LB Bag **$_____/Each**

Unit Price No. I – Ardex P51 Primer – 1 Gal **$_____/Each**

Unit Price No. J – Additional Emergency Light Fixture **$_____/Each**

Unit Price No. K – FRP Wall Panel Finish **$_____/Square Foot**

Unit Price No. L – Unit Masonry – BRK -1 **$_____/1 K**

Unit Price No. M – Unit Masonry – BRK -2 **$_____/1 K**

Unit Price No. N – Fire Extinguisher and Cabinet (Addendum 3) **$_____/Each**

SCHEDULE

Bidder has reviewed the proposed Schedule included in the bid manual and agrees that it can achieve the schedule as shown.

CONTRACT TERMS AND CONDITIONS

Bidder has read and reviewed the terms and conditions enclosed in the contract documents including all documents enumerated in the Table of Contents of the Bid Manual and takes no exception and is prepared to enter into Subcontract with the Construction Manager.

The undersigned represents that this proposal is made in good faith, without fraud, collusion, or connection of any kind with any other bidder of the same work, that he/she is competing in his/her own interest and in his/her own behalf, without connection of obligation to an undisclosed person; that no other person has any interest in regard to all conditions pertaining to the Work and in regard to the place where it is to be done, has made his/her own examination and estimates and from them makes this proposal. The undersigned understands that the Construction Manager, Owner and Architect reserve the right to reject any and all Bid Proposals and to waive any irregularities or informalities.

SIGNATURE:

_____

(Owner, President or Authorized Agent if Corporation)

NAME & TITLE:

_____, _____

(Print)

2nd SIGNATURE: WITNESS:

_____ _____

(If Partnership)

BUSINESS ADDRESS:

_____

(Street Number & Street, PO Box)

_____ ,____ _____ (____) _____ - _____

(City, State, Zip, Phone)

ATTEST (if Corporation)

_____ ,_____

(Name) (Title)

Check One: _____ Individual _____ Partnership _____ Corporation

Affix Corporate Seal Here

Please use the attached form or AIA-310 with similar listed parties.

KNOW ALL MEN BY THESE PRESENTS THAT _____

_____

as principal, and _____

_____ as surety, who is duly licensed to act as surety in North Carolina, are held and firmly bound unto the State of North Carolina and , and as oblige, in penal sum of: **TEN, 10% (Revised per Addendum 1)** percent of amount of bid or,

_____

_____DOLLARS,

lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Sealed, signed and dated this _____ day of _____ , 20_____.

WHEREAS, the said principal is herewith submitting proposal for and the principal desires to file this bod bond in lieu of making the cash deposit as required by G.S. 142-129.

NOW, THEREFORE, THE CONDITION OF THE ABOVE OBLIGATION is such, that if the principal shall be awarded the contract for which the bid is submitted and shall execute the contract and give bond for the faithful performance thereof within ten days after the award of the same to the principal, then this obligation shall be null and void; but if the principal fails to execute such contract and give performance bond as required by G.S.143-129, the surety shall, upon demand., forthwith pay to the oblige the amount set forth in the first paragraph hereof. Provided further, that the bid may be withdrawn as provided by G.S. 143-129.1.

_____ (SEAL)

_____ (SEAL)

_____ (SEAL)

_____ (SEAL)

In accordance with G.S. 143-64.31, it shall be the practice of Metcon, Inc. and our business partners to promote full and equal access to business opportunities. Disadvantaged, women, and small business enterprises (collectively "DBE, WBE, SBE") as well as other responsible vendors shall have a fair and reasonable opportunity to participate in business opportunities.

Metcon, Inc. and our business partners shall identify and define contract that remove barriers to participation commonly experienced by business enterprises as those terms are defined in North Carolina General Statute 143-128.2.

Metcon, Inc. requires the Principal Trade and Specialty Contractors shall make a good faith effort to recruit and select these businesses for participation in contracts pursuant to N.C.G.S. 143-128.2.

- **Requirements**

The fundamental requirement of the policy is that all contractors, vendors and consultants, who contract with the CM, will: (i) not discriminate against any person in regard to race, color, religion, age, national origin, sex, or disability; and (ii) provide a full and fair opportunity for participation of DBE/WBE/SBEs in contracts. Participation shall be measured in terms of the actual dollars received by DBE/WBE/SBEs.

"Minority" as used in this policy means African American (all persons having origins in any of the African racial groups); Hispanic/Latino American (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin); Asian American (all subcontinent, or the Pacific Islands); and Native American (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification.

"Woman" as used in this policy means a non-minority woman who has 51% ownership, interest, holds the professional or contractor license necessary for operation as well as management, control, and have technical expertise directly related to the primary product or service of the business.

"Small" as used in this policy means a business enterprise owned, operated, and controlled by one (1) or more eligible owners who have 51% ownership, interest, holds the professional or contractor license necessary for operation as well as management, control, and have technical expertise directly related to the primary product or service of the business, and is 25% or less of the applicable size standards established by the Small Business Administration.

"Socially and Economically Disadvantaged" as used in this policy means a minority, woman, or small business enterprise owned, operated, and controlled by one (1) or more eligible owners who have 51% ownership, interest, holds the professional or contractor license necessary for operation as well as management, control, and have technical expertise directly related to the primary product or service of the business, and is 25% or less of the applicable

size standards established by the Small Business Administration.

- **Program Objectives**

1. To provide DBE/WBE/SBEs equal access to opportunity for participation in Capital Improvement Projects construction (additions, renovations, and new construction), procurement, professional services and system-wide purchasing contracts.

2. To establish aspirational goals of participation for DBE/WBE/SBE firms capable of supplying those goods and services which are necessary for school system operations.

3. To provide procedures for determining and monitoring DBE/WBE/SBE participation and compliance with DBE/WBE/SBE requirements stated in the NC HUB policy and in contract documents.

4. To promote awareness of the DBE/WBE/SBE Programs throughout North Carolina and South Carolina and the HUB or DBE/WBE/SBE Community.

- **Section 3:**

Bid Provisions

The requirements of the CM's DBE/WBE/SBE Provisions and Guidelines are hereby made part of these contract documents. The requirements shall apply to all contractors regardless of ownership.

The aspirational goals for participation established by the CM will be included with each bid, request for proposal or public solicitation. The names and addresses of bona fide DBE/WBE/SBEs that are available for contracting or joint-venture opportunities may also be included with the solicitations. Each bidder or respondent shall be required to submit a "DBE/WBE/SBE Identification Form and Affidavit A or B".

- **Submission of a blank Minority Business Identification Form may be considered an element of non- responsiveness.**

DBE/WBE/SBE or HUB Subcontract Aspirational Goals

The aspirational goals for participation by Minority, Women, and Small Business Enterprises as subcontractors on this project have been set at:

Category	Total DBE/WBE/SBE Goal
Construction	20%
Goods	20%

- **The Bidder shall provide, with the bid the following documentation:**

□ **DBE/WBE/SBE Identification Form** (including suppliers)

- **Within 72 hours after notification of being the apparent low bidder, the low bidder who is subcontracting anything must provide the following information:**

□ **Affidavit C** (if aspirational goals are met or exceed established goal of DBE/WBE/SBE participation)

□ **Appendix I** (Signed by the DBE/WBE/SBE subcontractors, may come in after 72-hr deadline)

****With each pay request the prime contractors will submit Appendix IV listing payments made to all subcontractors.**

Compliance Documentation

All written statements, affidavits or intentions made by the Bidder shall become a part of the agreement between the Contractor and the CM for performance on this contract. Failure to comply with any of these statements, affidavits or intentions or with the DBE/WBE/SBE Program Guidelines shall constitute a breach of contract. A finding by the CM that any information submitted either prior to award of the contract or during the performance of the contract is inaccurate, false, or incomplete, shall also constitute a breach of the contract. Any such breach may result in termination of the contract in accordance with the termination provisions contained in the contract. It shall be solely at the option of Metcon, Inc. and business partners whether to terminate the contract for breach.

In determining whether a contractor has made Good Faith Efforts, Metcon, Inc. and business partners will evaluate all efforts made by the Contractor and will determine compliance in regard to quantity, intensity, and results of these efforts.

- **Good Faith Effort Documentation – The bidder's documentation to meet the goals set forth in these provisions shall include, but not limited to, the following evidence:**

1. Copies of solicitations for quotes to at least three (3) DBE/WBE/SBE firms for each subcontract to be let under this contract. Each solicitation shall contain a specific description of the work to be subcontracted, location where the bid documents can be reviewed, representative of the Prime Bidder to contact, and location, date and time when quotes must be received.

2. Copies of quotes or responses received from each firm responding to the solicitation.

3. A telephone log of follow-up calls to each firm sent a solicitation.

4. For subcontracts where an DBE/WBE/SBE firm is not considered to be the lowest responsible sub- bidder, copies of quotes received from all firms submitting quotes for that particular subcontract.

5. Documentation of any contacts, correspondence or conversation with DBE/WBE/SBE firms made in an attempt to meet the aspirational goals.

6. The successful bidder shall maintain records relating to all commitments for a period of at least one year following acceptance of final payment.

- **Note: Additional Good Faith Efforts are identified in Affidavit A.**

After review of the Bidder's Good Faith Efforts, the Bidder may request and be granted a Waiver of the DBE/WBE/SBE aspirational goals that have not been met for that particular project. A Waiver may be granted upon review of the Bidder's documentation and determination that, in fact, a Good Faith Effort has been put forth. The Contractor's DBE/WBE/SBE Utilization Commitment shall be incorporated into the contract.

- **NOTE: Metcon, Inc. and its business partners reserves the right to waive any irregularities in DBE/WBE/SBE documentation if they can be resolved prior to award of the contract, and it finds it to be in its best interest to do so and award the contract.**

Responsibilities:

1. Review all facets of the procurement process to ensure equal access by all segments of the community.

2. Develop and maintain a database of available minority, women, and small businesses.

3. Review all participation submissions and determine whether bidder/proposers are in compliance with the policy and recommend appropriate action.

4. Monitor all contracts to determine whether contractors achieve the ranges of participation set forth on the DBE/WBE/SBEs Identification Forms completed by the contractors.

5. Participating in vendor conferences, meetings, and other outreach activities geared to increase opportunities for DBE/WBE/SBE firms.

6. Provide technical assistance and guidance to DBE/WBE/SBE's on contracting and procurement opportunities with Metcon and its business partners.

7. Maintain statistics on utilization of DBE/WBE/SBE firms.

8. Investigate violations of the policy and recommend remedial action.

- **Prime Contractor (s), Bidder, CM at Risk, and First-Tier Subcontractors**

Contractors performing Construction Manager at Risk and alternative contracting methods will be responsible for the following:

1. Attend the scheduled pre-bid conferences

2. Identify or determine those work areas where DBE/WBE/SBEs may have an interest in

performing subcontractor work.

3. Submit with the bid a description of the portion of the work to be executed by the DBE/WBE/SBEs expressed as a percentage of the total contract price.

4. At least ten (10) days prior to the scheduled day of bid opening, notify certified DBE/WBE/SBEs of potential subcontracting opportunities listed in the proposal. The notification will include the following:

    a. A description of the work for which the sub-bid is being solicited.
    b. The date, time, and location where sub-bids are to be submitted.
    c. The name of the individual within the company who will be available to answer questions about the project.
    d. Where the bid documents may be reviewed.
    e. Any special requirements that may exist, such as insurance, licenses, bonds and financial arrangements. If there are more than three (3) certified DBE/WBE/SBEs in the area of the project, the contractor(s) shall notify three (3), but may contact more, if the contractor(s) so desires.

5. During the bidding process, comply with the contractor(s) requirements listed in the proposal for participation in the DBE/WBE/SBE Program.

6. If the Contractor elects to utilize suppliers to satisfy the goal(s) in whole or in part, the small, minority, or women-owned businesses must perform a commercially useful function. Supplier participation may be approved upon review of the following factors:

    a. The nature and amount of supplies to be furnished;
    b. Whether the DBE/WBE/SBEs firm is a manufacturer, wholesaler or distributor of the supplies and has the capabilities to deliver same in accordance with its certification;
    c. Whether the m DBE/WBE/SBEs firms actually performs, manages and supervises the work to furnish the supplies; and
    d. Whether the DBE/WBE/SBEs firm intends to purchase supplies from a non-minority, DBE/WBE/SBEs firm and simply resell same to the general or prime contractor for allowing those supplies to be counted towards fulfillment of the aspirational goal(s).

8. Upon being named the apparent low bidder, the Bidder shall submit to the DBE/WBE/SBE Administrator their good faith backup documentation if they have not met the DBE/WBE/SBE goal. Failure to comply with procedural requirements as defined in contract documents may render the bid as non-responsive and may result in rejection of the bid and award to the next lowest and responsive bidder.

9. If during the construction of a project additional subcontracting opportunities become available, the prime or general contractors must make a good faith effort to solicit sub-bids from DBE/WBE/SBEs.

- **DBE/WBE/SBE Responsibilities**

DBE/WBE/SBE firms do not have to be certified to be listed on the bid documents; however, DBE/WBE/SBE firms that have been awarded contracts will not be credited towards Metcon's DBE/WBE/SBE Program unless they are certified by a bona fide certifying entity, including by way of example and not limitation, certification from such entities as the Carolina's Virginia Minority Supplier's Development Councils, Women Business Enterprise Network Council, SC

OSMBA Office or other governmental entity. In addition, DBE/WBE/SBE firms will be responsible for the following:

1. DBE/WBE/SBEs should make every effort to establish contacts and relationships with contractors for potential future business, including attending pre-bid conferences and subscribing to industry and trade journals.

2. DBE/WBE/SBEs should also document all contacts and communications made with Contractors above so as to be able to assist the DBE/WBE/SBE Administrator in determining whether a complaint lodged by a firm against a Bidder for failure to use good faith efforts is valid.

3. In addition, DBE/WBE/SBEs who are contacted by Owners or Bidders should respond promptly whether or not they wish to submit a bid. If a DBE/WBE/SBE firm is listed as a subcontractor or supplier, they will be responsible for completing a Letter of Intent (Appendix I) in a timely manner and returning it to the Prime Contractor.

4. DBE/WBE/SBE who are not certified at the time the firm commits to provide services, should apply for certification with the Carolinas Virginia Minority Supplier Development Council, or other governmental entities within thirty (30) days. If the DBE/WBE/SBE firm fails to submit an application within the specified time frame or if the DBE/WBE/SBE firm is not granted certification by the Certification Committee, that firm's contract dollars will not be counted as DBE/WBE/SBE participation; however, not getting certification does not release the DBE/WBE/SBE from contractual obligations to the primary contractor.

5. DBE/WBE/SBEs are urged to take advantage of appropriate technical assistance and training when it is available.

Attach AFFIDAVIT A or AFFIDAVIT B to the Bid

State of North Carolina – AFFIDAVIT A – Listing of the Good Faith Effort

County of _____

Affidavit of _____
(Name of Bidder)

I have made a good faith effort to comply under the following areas checked:
Bidder must earn at least 50 points from the Good Faith Efforts list for their bid to be considered responsive.

- ☐ **1 – (10 Points)** Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor or available on State or local government-maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed.
- ☐ **2 – (10 Points)** Made the construction plans, specifications and requirements available for review by prospective minority businesses or providing these documents to them at least 10 days before the bids are due.
- ☐ **3 - (15 Points)** Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- ☐ **4 – (10 Points)** Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- ☐ **5 – (10 Points)** Attended pre-bid meetings scheduled by the public owner.
- ☐ **6 – (20 Points)** Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- ☐ **7 – (15 Points)** Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- ☐ **8 – (25 Points)** Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- ☐ **9 - (20 Points)** Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
- ☐ **10 – (20 Points)** Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.

In accordance with GS143-128.2(d) and Board of Education Policy the undersigned will enter into a formal agreement with the firms listed in the Identification of Minority, Women, and Small Business Participation schedule conditional upon execution of a contract with the Owner. Failure to abide by this statutory provision will constitute a breach of the contract. The undersigned hereby certifies that he or she has read the terms of the Minority, Women, and Small Business Enterprise commitment and is authorized to bind the bidder to the commitment herein set forth.

Date:_____ **Name of Authorized Officer:**_____

Seal: **Signature:**_____

Title:_____

State of _____ ***County*** _____ ***Subscribed and sworn to before me this*** _____ ***day of*** _____ ***20***_____

Notary Public_____ ***My commission expires***_____

Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid

Attach AFFIDAVIT A or AFFIDAVIT B to the Bid

State of North Carolina – AFFIDAVIT B-- Intent to Perform Contract with Own Workforce.
County of _____

Affidavit of _____

_____
(Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the

_____ contract.
(Name of Project)

In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform **all elements of the work** on this project with his/her own current work forces; and

The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date:_____ **Name of Authorized Officer:**_____

Signature:_____

Title:_____

Seal

State of _____ , County of _____
Subscribed and sworn to before me this _____day of _____
_____20___

Notary Public _____
My commission expires_____

Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid Attach to Bid

Minority, Women, and Small Business Enterprise Identification Form

I,_____
(Name of Bidder)
do hereby certify that on this project, we will use the following minority, women, or small business enterprises as construction subcontractors, vendors, suppliers or providers of professional services.

Firm Name, Address and Phone #	Work type	*M/W/SBE Category

*M/W/SBE categories: Black, African American (**B**), Hispanic (**H**), Asian American (**A**) American Indian (**I**),
Female (**F**), Small (**S**), or Socially and Economically Disadvantaged (**D**)

The total value of M/W/SBE firms contracting will be ($) _____.

Attach this form and AFFIDAVIT A or this form and AFFIDAVIT B to the Bid

The undersigned certifies that _____

(Name and Business Address of Subcontractor)

North Carolina General Contractor License Number _____ has not in connection with this proposal or in any instance engaged in any conspiracy, combination, or any other act in restraint of trade or commerce declared to be unlawful by the provisions of N.C.G.S. 75-1 and 75-2 where the combination, conspiracy or other unlawful act in restraint of trade involves a contract for construction, renovation or repair, let or to be let by a governmental agency or a subcontract for construction renovation or repair with a prime contractor or proposed prime contractor for a governmental agency. N.C.G.S. 133-24.

Furthermore, the undersigned certifies that it is familiar with the response to the Prequalification Package and Bid Manual for **EB Frink Middle School** and that said response, is fair and proper and is not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the undersigned or any of its agents, representatives, owners, employees or parties in interest. N.C.G.S. 133-30.

Finally, the undersigned certifies that it has not been suspended from bidding by the North Carolina State Building Commission or any other State building authority and that it is not an affiliate or subsidiary of any company suspended by the North Carolina State Building Commission or any other State building authority.

By_____

Title_____

Date_____

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal this the _____day of _____, 20_____.

_____
Official Signature of Notary

_____, Notary Public
Notary's Printed or Typed Name

_____
My Commission Expires

_____

BID PACKAGE #0150
GENERAL TRADES
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **GENERAL TRADES 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~~ $300,000 (Addendum 1) 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.

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.

Initial Here_____

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 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 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.
16. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
17. 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.
18. 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

Initial Here_____

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.

19. Parking at and around the site will be limited. Please see the Logistics Plan for more information.
20. 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.
21. This subcontractor will abide by local noise ordinances as required.
22. 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.
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 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.
25. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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

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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.

33. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
34. 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.
35. 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.
36. 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.
37. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
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.

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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.
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.
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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 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~~. 18 months (Addendum 1)
    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.
    f. This supervisor will track this trade's manpower hours as described below in Scope Requirement 2.b.iii.
2. Personnel Utilization Manhour pool:
    a. ~~5 unskilled workers for 24 months, 5 days a week, 10 hours a day~~. 2 unskilled workers for 18 months, 5 days a week, 8 hours a day. To be used at the discretion of the CM, not for specific tasks called out below. (Addendum 1)
        i. Weekly Cleaning of jobsite office trailer (Addendum 1)
    b. 2 skilled workers for 18 months, 5 days a week, ~~10 hours a day~~ 8 hours a day. To be used at the discretion of the CM, not for specific tasks called out below. (Addendum 1)
        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. Duration of Project (Addendum 1)
        i. Provide all fuel and maintenance necessary.
        ii. Forklift – ~~18 months~~ 16 months, all-terrain, capable of booming out and reaching a minimum of ~~135'~~ 36'. (Addendum 3)
        iii. Scissor lift – ~~18 months~~ 12 months, all-terrain, capable of lifting over 2 stories. (Addendum 1)
        iv. Street Cleaner – ~~12 months~~ 8 months (Addendum 1)
        v. Equipment allowance of ~~$50,000~~ $20,000 (Addendum 1)

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b. Turn Over to the School District (Addendum 1)
   i. Lawn Mower (Riding) – ~~24 months~~. To be purchased, used and maintained during construction and turned over to the School District at the conclusion of the project.
   Toro 54 in. 726 cc Hydrostatic Gas Zero Turn Riding Mower Mfr # 77503
   https://www.acehardware.com/departments/lawn-and-garden/lawn-mowers/riding-mowers/7038003
   (Addendum 1)
   ii. Weed Trimmer – ~~24 months~~. To be purchased, used and maintained during construction and turned over to the School District at the conclusion of the project.
   STIHL FS 131 R 16.5 in. Gas Brushcutter
   Mfr # 41802000511US
   https://www.acehardware.com/departments/lawn-and-garden/outdoor-power-equipment/trimmers-and-edgers/7000379
   (Addendum 1)
   iii. Pressure Washer (1) – ~~24 months~~. To be purchased, used and maintained during construction and turned over to the School District at the conclusion of the project..
   STIHL RB 200 2500 psi Gas 2.3 gpm Pressure Washer
   Mfr # 47890124600US
   https://www.acehardware.com/departments/lawn-and-garden/outdoor-power-equipment/pressure-washers/8024265
   (Addendum 1)
   iv. Side-by-Side – To be purchased, used and maintained during construction and turned over to the School District at the conclusion of the project.
   Massimo T-BOSS 1000 Side by Side UTV
   Massimo T-BOSS 1000 Side by Side UTV at Tractor Supply Co
   (Addendum 1)

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. At peak times, estimated to have 200 plus workforce.
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~~ 1 trash hopper with forklift lifting capabilities, to be emptied twice a week to allow easy maneuvering of trash from the building to the dumpsters. (Addendum 1)

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 (3) 30-yard~~ one (1) 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~~ 18 months. If dump tickets are not provided to CM by the end of each month, the subcontractor will not be reimbursed. (Addendum 1)
14. Allowance for Dump Ticket Fees:
    a. Include a scope allowance of ~~$120,000~~ $100,000 for dump ticket fees. All savings will be deducted as a change order back to the Construction Manager at the end of the project. (Addendum 1)
15. Conex Containers:
    a. Provide ~~two~~ one (1) 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. (Addendum 1)
16. 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.

~~17. Material Load-In Bays:~~

a. ~~Construct one material load-in bay on the mezzanine floor, 20'x15' with removable rails at each corral. Provide two retractable lifelines and appropriate anchor points to be used by all trades at load-in bay. This work and materials are separate from the general labor hour pool and allowance.~~ Removed from scope of work. (Addendum 1)

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18. 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.

~~19. 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.~~ Removed from scope of work. (Addendum 1)

20. 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.

21. Wellness Station Shelter Carport (Addendum 1)
    a. Provide and install (1) carport. This work and materials are separate from the general labor hour pool and allowance.

BUILDING INFO		SIZE	COLOR		ANCHORING & RATING	
ROOF STYLE	Regular Style	20' WIDTH X 25' FRAME LENGTH X 8' HEIGHT	ROOF	White	INSTALLATION SURFACE	Dirt
BUILDING TYPE	3D Builder		SIDES/ENDS	White	GROUND ANCHOR	☑ YES ☐ NO
FRAMING GAUGE	☑ 14 GA. ☐ 12 GA.		TRIM	White	WIND/SNOW RATING	140MPH / 35PSF

DESCRIPTION	QTY
Style: Standard Carport	
Base Price: 20'x25'	1
Engineer Certified: 140MPH / 35PSF	1
Leg Height: 8'	1
Sides: 3' Panel (Horizontal)	2
Ends: Gable End (Horizontal)	2

(Addendum 1)

    b. Provide (4) wood picnic tables
    Style Selections 72-in Brown Southern Yellow Pine Rectangle Picnic Table
    Item #114358 Model #116810
    https://www.lowes.com/pd/72-in-Brown-Southern-Yellow-Pine-Rectangle-Picnic-Table/3620364
    (Addendum 1)

G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. NONE

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BID PACKAGE #0330
TURNKEY CONCRETE
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **TURNKEY CONCRETE 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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.

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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" withing 5 working days of initiation by Construction Manager.
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 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 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.
25. Under no circumstances subcontractor is permitted to work without a Construction Manager's representative on site.
26. 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.
27. 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.
28. 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.
29. 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.
30. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values
31. 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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32. 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 on 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.
33. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
34. 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.
35. 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.
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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.
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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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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. **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 is 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, mock-ups, 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.

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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 ¼" per 10' shall not be compromised due to concrete being placed on unsupported spans of metal decking exceeding 15'.
    c. At exposed edge of elevated slabs, provide wood perimeter safety railing system with top rails, mid rails and toe boards, including maintenance of same, for duration of subcontractor's activities; safety railing system to be removed by others; submit safety railing plan to CM for review. (Addendum 2)

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 for furnishing and installing all site concrete benches, planters, etc. in their entirety.

17. 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.

18. 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.

19. All concrete slab cold-key forming and saw cutting for control joints, construction joints, and joint covers is included.

20. 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).

21. 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.

22. Subcontractor is responsible for building all box-outs, furnishing all sleeving requirements, etc. for installation and removal under this agreement.

23. 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).

24. Construction Manager will not reimburse Subcontractor for cutting, drilling, etc. of formwork to install sleeves or embedded items in formwork system.

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25. 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.
26. 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.
27. 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.
28. 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.
29. Subcontractor is responsible for cleanliness of formwork cavities and metal decks prior to concrete placement.
30. 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.
31. Subcontractor shall furnish and install all construction joint key ways in walls, columns, beams and slabs including removal thereof after concrete placement.
32. 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.
33. 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.
34. Subcontractor is responsible for delivering and providing a slab on grade and slab on deck 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.
35. 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.
36. Subcontractor is responsible for all the concrete on pan-filled stairs.
37. 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.
38. Subcontractor is responsible for proper filling of hollow core cavities with concrete as intended by design specifications. 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.
39. Provide multiple mobilizations in phasing with slab pours including post treatment.
40. Provide all termite treatment including any hazard/safety signage requirements.

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41. Provide retreatment of areas that are disturbed by subsequent excavation, rain, landscape grading, etc.
42. Provide termite treatment warranty in accordance with the specification which shall begin on the Owner's beneficial acceptance of building.
43. 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.
44. Subcontractor is responsible for notifying Construction Manager and governing agencies of all inspection requests.
45. Subcontractor to install uplift anchors as highlighted in structural details for tension piles. Steel Subcontractor shall supply angles and bolts.
46. All concrete that will have exposed edges, including concrete site furniture, 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 Pump Slab & Foundation, pour-backs and thickened slabs.
   b. Foundation at dumpster screen wall is included.

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c. All mechanical, plumbing and electrical, food service (Addendum 3) 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.
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.

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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 Division 7.
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.

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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.

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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.

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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

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

The Scope of Work shall include the furnishing of a complete **HOLLOW CORE PLANK 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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 maintaining streets and parking lots in clean condition for their scope of work.
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 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.
17. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all their own materials and work in place.
18. 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

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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. 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.
20. Parking at and around the site will be limited. Please see the Logistics Plan for more information.
21. 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.
22. Subcontractor will abide by local noise ordinances as required.
23. All punch list items must be corrected and "ready for review" withing 5 working days of initiation by Construction Manager.
24. 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.
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 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.
26. Under no circumstances subcontractor is 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 jobsite orientation. Subcontractor will confirm and/or provide all their visitors with the site required personal protection equipment.
30. 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.
31. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values.

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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 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 on 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.
34. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
35. 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.
36. 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.
37. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
38. 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.
39. 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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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.

40. 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.

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42. 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.

43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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. **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 planks. Shop drawings should clearly show strand locations.
5. Provide and install all bearing pads. Jacking and preloading of planking for adjustment as required.
6. Coordinate all floor/ceiling 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 and as required to allow for panel joint and edge pours. This scope of work to include complete grouting and edge pours as required for complete installation. (Addendum 3)
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. Openings greater than 10” diameter or 10’x10” square are to be noted on shop drawings, as determined in BIM coordination, and provided by this subcontractor.
14. Stockpiling the floor with materials will not be allowed.

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G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. None

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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 REQUIREMENTS:

Each bidder quoting a sum greater than ~~$100,000~~ $300,000 (Addendum 1) 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.

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**

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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.

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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 maintaining streets and parking lots in clean condition for their scope of work.
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.
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18. 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

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

43. 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.
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Meeting Titles	Frequency	Required Attendees	Location
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Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 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 13 00 – SHEET WATERPROOFING**
5. **SECTION 07 14 16 – COLD FLUID APPLIED WATERPROOFING**
6. **SECTION 07 21 00 - THERMAL INSULATION**
7. **SECTION 07 21 19 - FOAMED-IN-PLACE INSULATION**
8. ~~**SECTION 07 95 13 - EXPANSION JOINT COVER ASSEMBLIES**~~ (Addendum 3)

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/mock-ups under this agreement at no cost to the Construction Manager. The approved sample panels/mock-ups 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.**

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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

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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~~ (Addendum 2), 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.

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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 (¼") 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 and food service equipment pipe sleeves shall be furnished by appropriate MEPF and food service equipment Subcontractor and installed by this Subcontractor. Layout of sleeve shall be by MEPF trades. (Addendum 3)
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.

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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, for installation by this subcontractor, as follows:
    a. Limited usage of HM frames will be utilized on this project. Where HM frames are required by code, and indicated in the contract documents, they will be bolted frames. This subcontractor shall be responsible for the filling of these frames with grout.
    b. This scope includes installation of hollow metal doors and frames and hollow metal window frames within the construction of this scope of work. Installation of aluminum frames is by others. (Addendum 2)

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.

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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 3)
    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.
    h. Cleaning of all items installed under this scope.
    i. Cavity drain mat, nets, drip boards, weep vents, wicking material, etc. is included.
    ~~j. Subcontractor shall provide all compressible fillers as required at the top of wall conditions.~~ (Addendum 3)
    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.

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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. Dowels to be drilled and epoxied at thickened slabs to be furnished and installed per structural details by this masonry subcontractor. (Addendum 2)
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. Subcontractor is responsible for reviewing the logistics plans for “leave out areas.” Leave out areas will be used for stocking material to the second floor/mezzanine of the building.
54. This subcontractor must provide the BIM manager with electronic plans of all shop drawings. These plans will be used to create all coordination elevations requiring penetrations. Coordination with the BIM manager may be necessary.

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55. All HM Frames in masonry construction are to be set by the Masonry Subcontractor and provided by others.

56. 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 ~~with the exception of foamed-in-place insulation behind metal panels and soffit panels. (Addendum 2)~~ Revised and added back into this scope in Addendum 3). Contractor should anticipate multiple mobilizations for this work.

    c. All Foamed in-place insulation and air barrier behind the metal wall panels is included in this scope. (Added back into this scope in Addendum 3). Also refer to Bid forms to provide DEDUCT ALTERNATE for foamed-in-place insulation at metal panels. (Added back into this scope in Addendum 3).

    d. All rigid insulation, damp proofing, air barrier etc. required for all exterior wall assemblies as shown on contract documents. (Addendum 3). Contractor should anticipate multiple mobilizations for this work.

57. Miscellaneous steel angles are to be supplied by steel subcontractor. This Subcontractor is responsible for the installation of all exterior steel support angles installed behind spray foam insulation, including but not limited to supporting brick, cast stone sills, top of exterior walls, etc. (Addendum 3)

G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. ~~Foamed-in-place insulation behind exterior metal panels and metal soffit panels is not included in this scope. (Addendum 2).~~ Exclusion removed in Addendum 3
2. None (Addendum 3)

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BID PACKAGE #0510
STRUCTURAL STEEL
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **STRUCTURAL STEEL 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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 maintaining streets and parking lots in clean condition for their scope of work.
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 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.
17. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all their own materials and work in place.
18. 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

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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. 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.
20. Parking at and around the site will be limited. Please see the Logistics Plan for more information.
21. 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.
22. Subcontractor will abide by local noise ordinances as required.
23. All punch list items must be corrected and "ready for review" withing 5 working days of initiation by Construction Manager.
24. 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.
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 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.
26. Under no circumstances subcontractor is permitted to work without a Construction Manager's representative on site.
27. 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.
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 jobsite orientation. Subcontractor will confirm and/or provide all their visitors with the site required personal protection equipment.
30. 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.
31. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values.

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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 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 on 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.
34. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
35. 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.
36. 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.
37. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
38. 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.
39. 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 J 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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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.

40. 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.

41. 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.

42. 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.

43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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. **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**

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, railings, 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 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.

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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.

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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 at steel joists.
    e. All miscellaneous steel clips, angles, and frames.
    f. All steel ladders including roof hatch access ladders.
    g. All galvanized steel ladder supports/bearing plates and HSS sections as indicated for upper roof access. (Addendum 3)
    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, roof trusses 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, including edge of mezzanine, ~~and roof~~ (Addendum 3) 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.

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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 steel roof joists. Roof decking on light gauge trusses to be supplied and installed by others.

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.

41. This subcontractor is responsible for installing canopy brackets built-up sections. Canopy brackets to be furnished by others. (Addendum 3)

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 decking at light gauge metal trusses (by Framing Subcontractor)

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

The Scope of Work shall include the furnishing of a complete **DAMP PROOFING, WATERPROOFING, FIREPROOFING & JOINT PROTECTION 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 REQUIREMENTS:

Each bidder quoting a sum greater than ~~$100,000~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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.
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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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. 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.
24. 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.
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 schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. 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

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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. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the 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. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
39. 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.
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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.
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43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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, compressible fillers, top-of-wall material separation fillers. (Addendum 3)
10. All through penetration, fire stopping of both rated and non-rated assemblies is included.

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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 copings/flashings, brick-to-steel shelf lintels, veneer penetrations of conduit, hose bibs, brick caps and windowsills, abutting concrete, etc.
    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.
    s. All expansion joint covers. (Addendum 2)

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.

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17. Subcontractor is responsible for all cleanup of debris from materials and installation of materials included in this scope.

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 including but not limited to miscellaneous steel.

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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 REQUIREMENTS:

Each bidder quoting a sum greater than ~~$100,000~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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.
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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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. 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.
24. 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.
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 schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. 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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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. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the 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. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
39. 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 J 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

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subcontractor complies. No additional cost or time will be considered due to any acceleration required.

40. 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.
41. 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.
42. 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.
43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 07 41 13 - METAL ROOF PANELS**~~ (Addendum 1)
2. **SECTION 07 42 13 - METAL WALL PANELS**
3. **SECTION 07 42 93.13 - METAL SOFFIT PANELS**
4. ~~**SECTION 07 21 19 - FOAMED-IN-PLACE INSULATION** (Addendum 2)~~ (Addendum 3)

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 ~~all~~ insulation, shims, spacers, and all other incidental items required for a complete and weather-tight system. (Addendum 3)

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.

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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.

19. The subcontractor shall provide labor, materials, and equipment for this scope of work at all required mock-ups under this agreement at no cost to the Construction Manager. The approved sample mock-ups will remain standing to provide the standards for the workmanship of the work. All sample panels shall be constructed and completed for Owner/Architect review by such time to allow for the manufacturing and shipment of materials in accordance with the project schedule.

20. ~~This subcontractor is responsible for all foamed-in-place insulation and air barrier behind the metal wall panels and soffit panels per the contract documents. (Addendum 2)~~ (Revised in Addendum 3). Refer to Bid form and contract documents and provide ADD ALTERNATE to provide basis-of-design foamed-in-place insulation at all areas of metal panel. (Addendum 3)

G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. Scope revised to move all foamed-in-place insulation from this scope package BP0740 to BP0420. Refer to Bid form and contract documents and provide ADD ALTERNATE to provide basis-of-design foamed-in-place insulation at all areas of metal panel. (Addendum 3)

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BID PACKAGE #0840
ALUMINUN WINDOWS-ENTRANCE-STOREFRONT-CURTAINWALL
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **ALUMINUM WINDOWS-ENTRANCE-STOREFRONT-CURTAINWALL & 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 REQUIREMENTS:

Each bidder quoting a sum greater than ~~$100,000~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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.
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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 maintaining streets and parking lots in clean condition for their scope of work.
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 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.
17. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all their own materials and work in place.
18. 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.

19. 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.
20. Parking at and around the site will be limited. Please see the Logistics Plan for more information.
21. 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.
22. Subcontractor will abide by local noise ordinances as required.
23. All punch list items must be corrected and "ready for review" withing 5 working days of initiation by Construction Manager.
24. 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.
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 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.
26. Under no circumstances subcontractor is permitted to work without a Construction Manager's representative on site.
27. 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.
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 jobsite orientation. Subcontractor will confirm and/or provide all their visitors with the site required personal protection equipment.
30. 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.
31. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values.

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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 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 on 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.
34. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
35. 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.
36. 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.
37. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
38. 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.
39. 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 J 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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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.

40. 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.

41. 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.

42. 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.

43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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 42 26.10 – GLASS DISPLAY CASE DOORS**
3. **SECTION 08 80 00 – GLAZING**
4. **SECTION 08 83 00 – MIRRORS**
5. ~~**SECTION 10 71 13 – EXTERIOR SUN CONTROL DEVICES**~~ (Removed from project in Addendum 3)

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 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

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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 brake metal as directed by CM to the storefront/ curtain wall framing system.
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. This subcontractor is responsible for furnishing and installing all wall mounted frameless glass mirrors as specified in Section 08 83 00 – Mirrors.
20. This subcontractor is responsible for furnishing and installing complete all aluminum and glass display cases including doors/frames, hardware, glass as indicated in the Contract Documents.
21. If applicable, this subcontractor shall provide and install all Composite Doors and Frames as indicated on door and window schedules.
22. 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.

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23. This Subcontractor is responsible for providing all required holes, chases, backing/drop 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.
24. All shop drawings provided under this agreement shall be fully detailed and coordinated with other scheduled hardware installations before fabrication.
25. 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.
26. 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.*
27. 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.
28. 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.
29. All window hardware is included.
30. 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.
31. If applicable, include polycarbonate panels in gym windows.
32. 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. 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.
33. 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.
34. Subcontractor is responsible for reviewing the logistics plans for "leave out areas." Leave out areas will be used for stocking material to the second floor / mezzanine of the building as required.

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35. The subcontractor shall provide labor, materials, and equipment for this scope of work at all required mock-ups under this agreement at no cost to the Construction Manager. The approved sample mock-ups will remain standing to provide the standards for the workmanship of the work. All sample panels shall be constructed and completed for Owner/Architect review by such time to allow for the manufacturing and shipment of materials in accordance with the project schedule.

36. ~~This subcontractor's scope includes complete furnish and install of exterior sun control devices per the contract documents. (Addendum 2) (~~Removed from project in Addendum 3)

G. DESCRIPTION OF SCOPE EXCLUSIONS:

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

1. NONE

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BID PACKAGE #0966
RESINOUS MATRIX TERRAZZO FLOORING
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **RESINOUS MATRIX TERRAZZO FLOORING 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 REQUIREMENTS:

Each bidder quoting a sum greater than ~~$100,000~~ $300,000 (Addendum 1) 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.

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.

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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.
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.

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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.
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.
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

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    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.
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    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 J returned with pages initialed.

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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.

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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.
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43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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 66 00 RESINOUS MATRIX TERRAZZO 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. 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 terrazzo flooring, wall base, and accessories, including as indicated on the plans
3. This subcontractor shall be responsible for providing a mock-up panel of the terrazzo floor that will display Schluter/separation strips and all fill colors.
4. All adhesives, primers, sealers, epoxy fillers, miscellaneous accessories, etc.
5. All edge strips, transition strips, primers, sealers, reducer strips, etc.
6. Provide all edge strips to abutting finishes including exposed concrete floors, traffic coating flooring, etc.
7. This subcontractor is responsible for the protection of his work.
8. 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.
9. 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 bid pricing may result in the denial of proposed change order pricing for additional or unforeseen floor patching after the fact.**
10. 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.

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11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. Daily cleanup and disposal of packaging material and scrap materials to an on-site dumpster provided by others is included.
17. 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.
18. This subcontractor to provide all remediation due to high moisture in concrete. The Subcontractor shall maintain all warranties for material and workmanship.
19. This subcontractor verifies that the product specified for the curing and sealing of concrete slabs will not compromise the performance of the specified scope.
20. This subcontractor is responsible for any ventilation fan or other approved method necessary to perform installations and curing of work installed under this agreement.
21. This subcontractor is required to provide all task lighting as required to perform their scope of work.
22. This subcontractor is responsible for the layout of all work. 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.
23. 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.
24. 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.
25. If this subcontractor requires access to work areas, the removal and reinstallation of doors, thresholds, etc., for flooring installation is included.
26. This subcontractor is responsible for all floorleveling for their scope of work.
27. This subcontractor is responsible for prepping new and existing floors to allow new flooring to be installed for their scope of work.

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28. Cover floor with Ram Board upon completion of installation and cleaning for protection of work performed in this scope of work. (Addendum 3)

29. 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

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BID PACKAGE #1011
VISUAL DISPLAY UNITS
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **VISUAL DISPLAY UNITS 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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.
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

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    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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 10 11 00 – VISUAL DISPLAY UNITS**

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 providing and installing all projector screens, TVs, and TV mounts where applicable.~~ (Addendum 3)
2. All markerboards, tackboards, map rails shall be provided and installed by this subcontractor.
3. This subcontractor shall provide and install all tackable wallboards.
4. All markerboards shall be the responsibility of this subcontractor.
5. This subcontractor shall provide specified warranty per the contract documents.
6. This subcontractor shall provide caulk as specified per the contract documents.
7. All hauling, hoisting, storage, multiple mobilization, handling, loading, unloading, relocating/placing throughout the job shall be the responsibility of this subcontractor.
8. This subcontractor shall be responsible for protecting all surrounding finishes while installing this scope of work.
9. This subcontractor shall be responsible for cleaning up after themselves daily.
10. All attic stock shall be provided per the contract documents.
11. This subcontractor shall coordinate with the painting subcontractor to ensure that all items will adhere to their surface.
12. This subcontractor shall be responsible for all scaffolding, scissor lifts and any other equipment required to perform this scope of work.

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13. This subcontractor shall coordinate all wood blocking with the drywall subcontractor to ensure proper anchor locations.
14. Stockpiling the floor with materials will not be allowed. Any material that is delivered shall be installed within a two-week period.
15. All subs will participate in pull planning sessions at roughly 4–6-week intervals. A representative with authority to commit manpower and make commitments on behalf of the company shall be present at each Pull Planning Session. Daily foreman huddles will be required each morning at Metcon's field office. Meetings will be 5-10 minutes in length to confirm Pull Planning Commitments.
16. 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

~~17. All interior & exterior signs including building letters and dedication plaques.~~ (Addendum 3)

~~18. Raised letters and Braille formed as an integral part of the sign face.~~ (Addendum 3)

~~19. Subcontractor to furnish all exterior sign bases~~ (Addendum 3)

20. Furnish and install all accessories, trims, backing, blocking (if required), anchoring to supports, etc. required to complete this scope of work.
21. All furnished items under this agreement shall be manufactured and prefinished per Architect's approved color samples.
22. Subcontractor shall final clean all installations upon installation completion.
23. Installations shall conform to ADA requirements.
24. Prior to releasing visual display units 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 visual display package

G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. NONE

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BID PACKAGE #1020
INTERIOR SPECIALTIES
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **INTERIOR SPECIALTIES 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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 maintaining streets and parking lots in clean condition for their scope of work.
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 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.
17. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all their own materials and work in place.
18. 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

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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. 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.
20. Parking at and around the site will be limited. Please see the Logistics Plan for more information.
21. 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.
22. Subcontractor will abide by local noise ordinances as required.
23. All punch list items must be corrected and "ready for review" withing 5 working days of initiation by Construction Manager.
24. 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.
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 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.
26. Under no circumstances subcontractor is permitted to work without a Construction Manager's representative on site.
27. 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.
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 jobsite orientation. Subcontractor will confirm and/or provide all their visitors with the site required personal protection equipment.
30. 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.
31. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values.

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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 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 on 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.
34. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
35. 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.
36. 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.
37. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
38. 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.
39. 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 J 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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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.

40. 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.

41. 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.

42. 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.

43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 10 21 13.19 - PLASTIC TOILET COMPARTMENTS**
2. **SECTION 10 28 00 - TOILET ACCESSORIES**
3. **SECTION 10 44 00 – FIRE PROTECTION SPECIALTIES**
4. **SECTION 10 56 13 – METAL STORAGE SPECIALTIES**
5. **SECTION 10 75 00 – FLAGPOLES**
6. **SECTION 11 53 00 - LABORATORY EQUIPMENT**
7. ~~**SECTION 11 95 15 - KILNS AND POTTERY STUDIO EQUIPMENT**~~ (Addendum 3)

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 listed for Section E 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.

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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 and install the following items (other items might apply please see spec sections):
    a. Fire extinguishers and cabinets.
    b. Fire blanket and cabinets.
    c. Flammable storage cabinets
    d. Acid corrosive storage cabinets
    e. Lab coat Storage
    f. Metal Storage Shelving
23. This subcontractor shall furnish laboratory refrigeration units. Final connections shall be by others. (Addendum 3)

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G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. NONE

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BID PACKAGE #1073
AWNINGS-CANOPIES~~-SUN CONTROL DEVICES~~ (Addendum 2)
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **AWNINGS-CANOPIES ~~& SUN CONTROL DEVICES~~** (Addendum 2) **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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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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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.
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    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 J 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.

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42. 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.
43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 10 71 13 – EXTERIOR SUN CONTROL DEVICES**~~ (Addendum 2)
2. **SECTION 10 73 16 – CANOPIES**
3. **SECTION 10 73 26 – WALKWAY COVERINGS**

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.

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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. This subcontractor scope includes complete furnish and install of ~~exterior sun control devices,~~ (Addendum 2) walkway canopies, and awnings per the contract documents.
14. Provide signed and sealed engineered shop drawings by a registered and licensed Engineer in State of North Carolina as indicated in Contract Documents.
15. The subcontractor shall provide all warranties and Owner's maintenance stock as required.
16. All caulking to dissimilar materials.
17. All mounting brackets, tie-backs and structural connections specific to this scope of work are to be provided by this subcontractor. (Addendum 3)

G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. NONE

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BID PACKAGE #1140
FOOD SERVICE EQUIPMENT
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **FOOD SERVICE EQUIPMENT 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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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    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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 11 21 73.10 - COMMERCIAL LAUNDRY EQUIPMENT**~~ (Removed from scope in Addendum 3)
2. ~~**SECTION 11 30 13 - RESIDENTIAL APPLIANCES**~~ (Removed from scope in Addendum 3)
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 specified ~~commercial laundry, residential appliances and~~ (Addendum 3) food service equipment including 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.

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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.~~ (Addendum 3)
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).

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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. This subcontractor to furnish all pipe sleeves for installation by other Subcontractor during structural work. Layout of sleeves shall be by this subcontractor in coordination with subcontractor installing the construction to receive the sleeve. Any core drilling of work in place for additional sleeves after construction of the structure is by this subcontractor. This subcontractor shall seal, pack, fire-safe, water-safe, weather-caulk, aesthetic caulk, etc. all its conduits/sleeves/penetrations as required by the Contract Documents and to maintain the required ratings. (Addendum 3)
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 with connection collars on top and is responsible for to provide a fully functioning “hood system,” including final testing & balancing and acceptance of the hood system. Coordinate with the HVAC Contractor for exhaust fan(s), ductwork and final connections and Electrical Contractor throughout the process.
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

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BID PACKAGE #1230
MANUFACTURED CASEWORK
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **MANUFACTURED CASEWORK 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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 maintaining streets and parking lots in clean condition for their scope of work.
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 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.
17. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all their own materials and work in place.
18. 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

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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. 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.
20. Parking at and around the site will be limited. Please see the Logistics Plan for more information.
21. 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.
22. Subcontractor will abide by local noise ordinances as required.
23. All punch list items must be corrected and "ready for review" withing 5 working days of initiation by Construction Manager.
24. 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.
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 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.
26. Under no circumstances subcontractor is permitted to work without a Construction Manager's representative on site.
27. 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.
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 jobsite orientation. Subcontractor will confirm and/or provide all their visitors with the site required personal protection equipment.
30. 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.
31. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values.

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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 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 on 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.
34. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
35. 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.
36. 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.
37. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
38. 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.
39. 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 J 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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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.

40. 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.

41. 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.

42. 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.

43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
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BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 06 20 00 - FINISH CARPENTRY**
2. **SECTION 12 32 16 - MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK**
3. ~~**SECTION 12 36 00 PHENOLIC RESIN COUNTERTOPS**~~ Refer to spec SECTION 12 32 12 for Phenolic Resin Countertop specifications included in this scope. (Addendum 3)

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.

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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,

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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. 5'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
    f. All science room casework and resinous countertops
    g. All stainless steel pass-through counter tops (Addendum 3)
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.~~ (Addendum 3)

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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.

G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. NONE

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BID PACKAGE #2200
PLUMBING
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **PLUMBING SYSTEM 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~~ $300,000 (Addendum 1) 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.

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**

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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.

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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.
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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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. 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.
24. 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.
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 schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. 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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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. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the 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. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
39. 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 J 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.

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40. 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.

41. 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.

42. 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.

43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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 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. The subcontractor shall flush, clean and camera all building drainage/sewer systems prior to Owner's acceptance of building.
6. All testing, certification tests, etc. under direction of Owner, Engineer, Inspectors, and governmental authority(s) having jurisdiction.
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.

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11. The subcontractor is responsible for the total coordination of all plumbing installations and for providing a complete plumbing system, including LP fuel system as indicated in the contract documents, in their entirety (Addendum 3). 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.

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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.

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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 is responsible for all gas lines and solenoids as required.
43. Subcontractor is responsible to furnish and install all acid neutralization components required per the contract documents.
44. Subcontractor is responsible for obtaining any necessary City/County permits and scheduling inspections for all temporary/and permanent installations.
45. BIM coordination will occur for this project. See the section "**H. BIM COORDINATION SCOPE INCLUSIONS**" below.
46. 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.
47. Subcontractor is responsible to final connect all Commercial Laundry Equipment, Residential Appliances and Laboratory refrigeration equipment indicated in the contract documents including dishwashers, all laundry washers/dryers, residential refrigerators/freezers. (Addendum 3)

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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 $55,000. 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.

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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 SYSTEMS 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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

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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 maintaining streets and parking lots in clean condition for their scope of work.
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 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.
17. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all their own materials and work in place.
18. 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

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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. 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.
20. Parking at and around the site will be limited. Please see the Logistics Plan for more information.
21. 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.
22. Subcontractor will abide by local noise ordinances as required.
23. All punch list items must be corrected and "ready for review" withing 5 working days of initiation by Construction Manager.
24. 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.
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 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.
26. Under no circumstances subcontractor is permitted to work without a Construction Manager's representative on site.
27. 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.
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 jobsite orientation. Subcontractor will confirm and/or provide all their visitors with the site required personal protection equipment.
30. 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.
31. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values.

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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 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 on 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.
34. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
35. 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.
36. 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.
37. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
38. 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.
39. 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 J 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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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.

40. 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.

41. 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.

42. 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.

43. 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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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. **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. 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 seven (7) 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.
2. All conduits, raceways and pull strings for work by others as shown on the drawings are included in this scope of work.
3. All exterior lighting and site lighting is included, in its entirety, in this scope of work.
4. Provide, install and removal of all temporary construction cameras, power and pole is included in this scope of work. Refer to Site Logistics plan for location information.

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5. Provide power to (3) well water pump locations as shown on the Logistics Plan. Coordinate with Geothermal subcontractor for location. Service to be 30A / 220v / single phase.
6. 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.
7. 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, bleacher, etc., disconnects, and service conductors/conduits.
5. 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.
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. Order and purchase of electrical switchgear is by others. Will be provided to this subcontractor for installation and final connections, testing, etc. Coordinate with Construction Manager for delivery and receipt of switchgear. Include a ten-thousand-dollar ($10,000) allowance, separate from items included in this scope, to be used for switchgear installation and coordination after obtaining coordination study.
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. All required Load Bank Testing, certifications, or any other specified test listed on the drawings and specs shall be covered in pricing.
13. This Subcontractor is responsible for coordinating work under this agreement with Mechanical, Fire Protection, and Site Utility Subcontractors.
14. The subcontractor shall provide all rough-in and final hook-up of all items requiring 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.
15. Subcontractor understands all building finishes are protected by this Subcontractor to perform work under this agreement. Subcontractor is responsible for protecting surrounding substrates

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and finishes from Work of this Scope, especially windows, flooring, doors, frames, paint, MEP installations proceeding completion of work under this agreement, etc.

16. All piping, bedding, and backfill material as required by the Contract Documents, Local, City, County, State, and Federal Codes/Regulations are included.

17. 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.

18. 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.

19. The subcontractor is responsible for the total installation of all electrical, low voltage and electronic safety and security installations and for providing a complete systems per the contract documents. 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.

20. The subcontractor is responsible for cleaning up all core drill slurry from walls and slabs and removing and patching all core drill machine anchors.

21. The subcontractor is responsible for coordinating all mechanical installations that cannot 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.

22. Recessed floor boxes must be coordinated with the substrate contractor.

23. 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 conduits/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

24. BIM coordination will occur for this project. See the section "**H. BIM COORDINATION SCOPE INCLUSIONS**" below.

25. 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.

26. Provide complete gym sound system added to contract documents in Addendum 3.

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G. DESCRIPTION OF SCOPE EXCLUSIONS

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

1. Order and purchase of electrical switchgear is by others.

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 $55,000. 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.

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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.

9. This subcontractor must create a “Conduit Racking/Path Plan and submit it to the BIM manager. The BIM Manager and the subcontractor will coordinate all necessary details. Any rework resulting from a deviation of the completed Conduit Racking Path plan, will be at the subcontractor’s risk and expense.

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BID PACKAGE #3100
TURNKEY SITEWORK
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **TURNKEY SITEWORK 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~~ $300,000 (Addendum 1) 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.

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.

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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.

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.

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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.

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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" withing 5 working days of initiation by Construction Manager.
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 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 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.
25. Under no circumstances subcontractor is permitted to work without a Construction Manager's representative on site.
26. 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.
27. 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.
28. 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.
29. 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.
30. All schedule 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. Material and labor shall be broken out as separate lines and further broken out to match the unit/phasing established in the project schedule. Schedule of values must be approved by Construction Manager prior to this subcontractor's first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of Values
31. 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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32. 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 on 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.
33. Based on the scope of work, subcontractor understands that multiple mobilizations will be required to complete the work.
34. 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.
35. 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.
36. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
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 J 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.

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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.
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.
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 bi-weekly at the discretion of the CM. 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	Required Attendees	Location
Pre-Install	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Safe Start	Once prior to mobilization	Superintendent, PM & Foreman/Competent Person	On Site - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Foreman/Competent Person	On Site - CM Trailer
Weekly Subcontractor Coordination	Weekly	Superintendent & Project Manager	On Site - CM Trailer
Pull Plan Initial Set-Up	As required	Superintendent & Project Manager	Remote / On Site
Pull Plan Updates	Bi-Weekly	Superintendent & Project Manager	On Site - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone on site	On Site - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote

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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. **DIVISION 31 – EARTHWORK (excluding 31 31 16 Termite Control)**
2. **DIVISION 32 – EXTERIOR IMPROVEMENTS (excluding 32 92 00 Lawns and Grasses and 32 93 00 Exterior Plants)**
3. **DIVISION 33 – UTILITIES**
4. **SECTION 32 31 13 CHAIN LINK FENCES AND GATES (Addendum 3)**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

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 a minimum of 200,000 SF of 4" stone aggregate base compacted furnish, install, maintained and removed at CM's discretion. See logistics plan for details.~~
    d. Subcontractor shall furnish, install and maintain temporary construction road that meet engineering requirements and accommodates site access and heavy construction vehicle traffic (cranes, excavators, etc.). Provide MINIMUM 4" wearable surface stone on compacted sub base as required for the duration of construction. Refer to Geotech report for compaction requirements and logistics plan for construction road location and route. Location, route and construction of access road ~~can~~ shall be converted into the permanent road provided the temporary road is designed, installed, inspected and maintained per the contract documents and engineering requirements at the time of installation. (Addendum 2) Refer to the contract documents and site logistics plan included in the bid manual for detailed road information. (Addendum 3)

1. Installation and Maintenance of Erosion Control. This includes installation, maintenance and removal of all erosion control at both the building site and adjacent borrow pit location. Refer to the Supplemental Borrow Pit Exhibit provided in Addendum 1 and contract documents for additional detailed borrow pit location information. (Addendum 3)
2. Temporary Utilities as outlined above
3. Site Clearing per SECTION 31 10 00 – SITE CLEARING
4. Rough and Final Grading, including at geothermal well fields (Addendum 3)

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5. All Cut and Fill operations including Building pad prep. Provide 2" of compacted stone aggregate base on the building pad after rough grading. (Addendum 1)
6. All Water Distribution Systems
7. On Site Sewer Systems complete
8. All Storm Water Systems
9. All Site Concrete outside the building line. This shall include sidewalks, playground,
10. Equipment pads shall be installed by others.
11. All Paving, Striping, traffic control and ADA Signage in its entirety. (Addendum 1)
12. Temporary Seeding and Mulch
13. This subcontractor shall be responsible for all ~~decorative~~ site fencing in its entirety. Refer to Fencing Scope described later in this bid package scope. (Addendum 3)
14. This subcontractor shall be responsible for installing bollards provided by others.
15. This subcontractor shall provide, install and maintain 20'-0" of rip rap at each site entrance/exit. Refer to Site Logistics plan for location information.
16. This subcontractor to provide pricing for alternate heavy duty pavement section to 1 ½" asphalt surface course on 2 ½" asphalt binder course on 8" compacted aggregate base course on compacted sub-grade. Refer to contract documents for heavy duty pavement locations, compaction and other requirements. Refer to the bid form to provide required pricing for alternates for this scope of work.
17. The site is "UNCLASSIFIED" up to subgrade. However, this classification will not apply to existing building pad and parking lots.
18. 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.
19. 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.
20. All work under this subcontract will be in accordance with the Contract Documents and City, County, DENR, and NCDOT Requirements.
21. ~~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 ensure safe vehicular entrance and exit to and from the site. (Addendum 3)
22. 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.

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23. It is the responsibility of this Subcontractor to ensure that all piping installations have sufficient specified, or code required coverage.

24. This subcontractor is responsible for final setting and adjusting of all grates, manholes, hydrants, PIVs, cleanout covers, valve boxes, etc.

25. This subcontractor is responsible for total coordination of all underground utilities and for providing complete utilities systems. 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.

26. 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.

27. 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.

28. All liabilities of sediment entering storm sewer system or discharging off-site is the responsibility of this Subcontractor to rectify.

29. 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.

30. 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.

31. 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.

32. 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.

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33. 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.

34. 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.

35. 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.

36. 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~~ $50,000 allowance for replacement of unsuitable soil dispose off site and replace with imported structural fill. (Addendum 1)
    b. ~~500 cubic yards of~~ $45,000 allowance for aggregate base stone (NCDOT CABC). (Addendum 1)
    c. ~~1000 cubic yards of~~ $10,000 allowance for imported structural fill. (Addendum 1)
    d. All of the above allowances shall be INCLUDED in the subcontractor's total bid amount as separate line items.

37. 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.

38. Base bid is to ~~bring in imported fill~~ utilize the on-site borrow pit as shown in the attached exhibit for all necessary fill for this project including but not limited to building pads, parking lots, roads and other structural fill. Also refer to Bid Manual Alternate NO. 6 – 100% Imported Fill in Lieu of Onsite Borrow Pit to provide alternate for base bid of onsite borrow pit use. (Addendum 1)

39. Remote Fire Department Connection if shown, is by this subcontractor.

40. Subcontractor is responsible for site surcharge requirements and monitoring of back fill over seven (7) feet.

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41. Borrow Pit Scope Clarifications (Addendum 3):

    a. At the borrow pit location indicated on the Supplemental Borrow Pit Exhibit provided in Addendum 1, this subcontractor shall remove and stockpile topsoil, remove and relocate fill as required per the contract documents, provide erosion control and temporary fencing at the borrow pit area.
    b. When borrow work is complete, prior to substantial completion of the project, the stockpiled topsoil shall be replaced and graded, as described in the borrow pit exhibit and contract documents prior to stabilization and removal of the temporary fencing at the borrow pit area.

42. Site Fencing Scope Description to be included in this Bid Package Scope (Addendum 3):

    a. This subcontractor shall be responsible for all site fencing in its entirety. This includes installation, maintenance and removal of all temporary construction fencing and gates at both the building site and adjacent borrow pit location. Refer to the Supplemental Borrow Pit Exhibit provided in Addendum 1 for additional detailed borrow pit location information.
    b. Furnishing, installing, and maintaining temporary construction fencing and gates per the site logistics plan. This subcontractor is responsible for verifying the location and the linear feet of the site fencing.
    c. Furnishing and installing, all permanent fencing and gates per the contract documents. This subcontractor is responsible for field verifying the location and the linear feet of the site fencing.
    d. 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.
    e. All posts shall be post-driven.
    f. Assume single gates are ten feet wide (10') and double gates are twenty feet wide (20') unless noted otherwise. See site logistics plan and Supplemental Borrow Pit Exhibit provided in Addendum 1 for site fencing information and locations.
    g. 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.
    h. This subcontractor will be responsible for all hoisting, hauling, loading, unloading, transporting/handling all material in and around the site, etc.
    i. This subcontractor shall coordinate all delivery with the Construction Manager along with adhering and complying with the "Construction Traffic Restrictions" within the contract documents.
    j. All fencing and windscreen shall be removed at the Construction Manager's request and shall be the responsibility of this subcontractor.
    k. This subcontractor shall be responsible for multiple mobilizations at no additional cost to the Construction Manager nor the Owner.

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l. The construction fence and gates shall be 8ft tall.

m. All fencing components i.e., post, gates, wheels, chain link fence, etc. shall be new.

n. The construction fence shall have top and bottom rails.

B. 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 is the responsibility of this Subcontractor.
2. Termite Control under slab on grade (by Concrete Subcontractor)
3. All Site Electrical (by Electrical Subcontractor)
4. Site Landscaping included in Section 32 92 00 Lawns and Grasses and Section 32 93 00 Exterior Plants (by Landscaping Subcontractor)
5. Windscreen provided by Construction Manager. (Addendum 3)

Initial Here_____

SECTION 01 22 00

UNIT PRICES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
   1. Unit price requirements for use in preparing Bids.
   2. Measurement and payment criteria applicable to Work performed under a unit price payment method and associated Bid requirements.
   3. Defect assessment and non-payment for rejected Work.
   4. Schedule of Unit Prices.

B. Related Requirements:
   1. Bidding Documents and Forms: Instructions for preparation of pricing for Unit Prices.
   2. Drawing and Specification requirements related to the work type indicated by the items listed in this Section under the Schedule of Unit Prices.

1.3 COSTS INCLUDED IN UNIT PRICES

A. Unit Prices included on the Bid Form shall include full compensation per unit of Work including, but not limited to, all required labor, overhead, profit, products, tools, equipment, plant fees, excavation, disposal fees, loading, transportation, services, incidentals, erection, application, and installation of a unit of the Work.

1.4 UNIT QUANTITIES SPECIFIED

A. Quantities indicated in the bidding documents and forms are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

1.5 MEASUREMENT OF QUANTITIES

A. Measurement methods delineated in the individual specification Sections complement the criteria of this Section. In the event of conflict, the requirements of the individual specification Section govern.
   1. Measurement for replacement fill of authorized excavated voids shall be based on volume of void to be filled with compacted fill.
   2. Measurement for fabric and sheet products installed horizontally, is not to include excess and/or overlaps.
   3. Measurement for other types of Work is indicated within the individual Unit Price requirement in the Schedule of Unit Prices at the end of this Section.

B. Take all measurements and compute quantities. Maintain records.
   1. Measurements and quantities will be verified by a soils and materials engineer employed by the Owner.

C. Assist by providing necessary equipment, workers, and survey personnel as required.

D. Measurement Devices:

1. Weigh Scales: Inspected, tested, and certified by the applicable State department within the past year.
2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle. Certified by the applicable State department within the past year.
3. Metering Devices: Inspected, tested, and certified by the applicable State department within the past year.

E. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.

F. Measurement by Volume: Measured by cubic dimension using mean length, width, and height or thickness.

G. Measurement by Area: Measured by square dimension using mean length and width or radius.

H. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.

I. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.

1.6 PAYMENT

A. Payment for Work governed by unit prices will be made based on the actual measurements and quantities of Work that is incorporated into or made necessary by the Work.

B. Payment will not be made for any of the following:
1. Products wasted or disposed of in a manner that is not acceptable.
2. Products determined as unacceptable before or after placement.
3. Products not completely unloaded from the transporting vehicle.
4. Products placed beyond the lines and levels of the required Work.
5. Products remaining on hand after completion of the Work.
6. Loading, hauling, and disposing of rejected Products.

1.7 DEFECT ASSESSMENT

A. Replace Work, or portions of the Work, not conforming to specified requirements.

B. If, in the opinion of Owner, it is not practical to remove and replace the Work, Owner will direct remedies as follows:
1. The defective Work will remain or be partially repaired to the instruction of the Owner, and at the discretion of the Owner, the unit price will be adjusted as follows:
a. Reduced to a new unit price.
2. The authority of Owner to assess the defect, direct remedies, and establish adjustment in unit price and payment is final.

C. The Contract, General Conditions of the Contract, Supplementary General Conditions, or individual specification Sections may modify these options or may identify a specific formula or percentage price reduction.

1.8 DOCUMENTATION

A. Section 01 32 00 - Construction Progress Documentation: Reports.

B. Maintain record of delivery tickets for replacement fill materials delivered to the jobsite. Indicate date, time, origin location, hauler, material description, quantities, and weight.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 SCHEDULE OF UNIT PRICES

A. Provide unit prices for the following Work in compliance with the Contract Documents for similar Work and as directed by Architect.
   1. Refer to "Costs Included in Unit Prices" article in this Section.
   2. Purpose:
      a. To adjust the contract sum if the Owner requires construction in addition to that indicated in the Contract Documents.
      b. To adjust the contract sum for approved variance in quantities indicated for the Quantity Allowances as indicated in Division 01 Section "Allowances".

B. **Unit Price No. 1 - Exit Sign.**
   1. Include circuitry and hardware. Conduits and boxes to be concealed and recessed.
   2. Unit Price: Provide bid price per each.

C. **Unit Price No. 2 - Surface Mounted Speaker/Strobe.**
   1. Include circuitry and hardware. Conduits and boxes to be concealed and recessed.
   2. Unit Price: Provide bid price per each.

D. **Unit Price No. 3 - Smoke Detector.**
   1. Include circuitry and hardware. Conduits and boxes to be concealed and recessed.
   2. Unit Price: Provide bid price per each.

E. **Unit Price No. 4 - Heat Detector.**
   1. Include circuitry and hardware. Conduits and boxes to be concealed and recessed.
   2. Unit Price: Provide bid price per each.

F. **Unit Price No. 5 - Fire Alarm Pull Station.**
   1. Include circuitry and hardware. Conduits and boxes to be concealed and recessed.
   2. Unit Price: Provide bid price per each.

G. **Unit Price No. 6 - Two Port Data Outlet.**
   1. Include circuitry and hardware. Conduits and boxes to be concealed and recessed.
   2. Unit Price: Provide bid price per each.

H. **Unit Price No. 7 - Duplex Power Outlet.**
   1. Include circuitry and hardware. Conduits and boxes to be concealed and recessed.
   2. Unit Price: Provide bid price per each.

I. **Unit Price No. 8 - Sidewalk.**
   1. Unit Price: Provide bid price per square yard.

J. **Unit Price No. 9 - Site Bollards.**
   1. Unit Price: Provide bid price per each.

K. **Unit Price No. 10 - Woven Geo-Textile Separation and Stabilization Fabric In-Place.**
   1. Unit Price: Provide bid price per square yard.
   2. Quantity Allowance: Contractor shall include an allowance price in the Base Bid for quantity indicated in Schedule - Quantity Allowances in Division 01 Section "Allowances".
      a. Coordinate unit price with quantity allowance price.
      b. Refer to requirements in Division 01 Section “Allowances”.

L. **Unit Price No. 11 - Removal of Unsuitable Soils (Bulk).**
1. Disposal to be off-site.
2. Unit Price: Provide bid price per cubic yard.
3. Quantity Allowance: Contractor shall include an allowance price in the Base Bid for quantity indicated in Schedule - Quantity Allowances in Division 01 Section "Allowances".
   a. Coordinate unit price with quantity allowance price.
   b. Refer to requirements in Division 01 Section “Allowances”.

M. **Unit Price No. 12 - Removal of Unsuitable Soils (Trench).**
1. Disposal to be off-site.
2. Unit Price: Provide bid price per cubic yard.
3. Quantity Allowance: Contractor shall include an allowance price in the Base Bid for quantity indicated in Schedule - Quantity Allowances in Division 01 Section "Allowances".
   a. Coordinate unit price with quantity allowance price.
   b. Refer to requirements in Division 01 Section “Allowances”.

N. **Unit Price No. 13 - Removal of Rock (Bulk).**
1. Disposal to be off-site.
2. Unit Price: Provide bid price per cubic yard.
3. Quantity Allowance: Contractor shall include an allowance price in the Base Bid for quantity indicated in Schedule - Quantity Allowances in Division 01 Section "Allowances".
   a. Coordinate unit price with quantity allowance price.
   b. Refer to requirements in Division 01 Section “Allowances”.

O. **Unit Price No. 14 - Replacement of Removed Unsuitable Soils or Rock with Off-Site Suitable Soils In-Place.**
1. Suitable soil fill approval required. Moisture control and compaction required.
2. Do not include costs related to the removal of unsuitable soils or rock. Unit price for removal is provided for in other Unit Price item in this Section.
3. Unit Price: Provide bid price per cubic yard.
4. Quantity Allowance: Contractor shall include an allowance price in the Base Bid for quantity indicated in Schedule - Quantity Allowances in Division 01 Section "Allowances".
   a. Coordinate unit price with quantity allowance price.
   b. Refer to requirements in Division 01 Section “Allowances”.

P. **Unit Price No. 15 - Replacement of Removed Unsuitable Soils or Rock with Off-Site Aggregate Base Course In-Place.**
1. Aggregate fill approval required and is to be Certified ABC material. Compaction required.
2. Do not include costs related to the removal of unsuitable soils or rock. Unit price for removal is provided for in other Unit Price item in this Section.
3. Unit Price: Provide bid price per cubic yard.
4. Quantity Allowance: Contractor shall include an allowance price in the Base Bid for quantity indicated in Schedule - Quantity Allowances in Division 01 Section "Allowances".
   a. Coordinate unit price with quantity allowance price.
   b. Refer to requirements in Division 01 Section “Allowances”.

END OF SECTION

ADDENDUM NO.3 – April 17, 2025

sfL+a ARCHITECTS
Capital Bank Plaza
333 Fayetteville Street, Suite 225
Raleigh NC 27601

Project: **EB Frink Middle School**
405 North Charles Street
LaGrange, North Carolina, 28551

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 April 17, 2025, 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 19 pages of responses, 55 pages of specifications and 68 pages of drawings.

CONTRACTOR BID QUESTIONS – From CM RFI Log

Item #40. **Question:** I can't find any expansion joints larger than 1" on the drawings, and these would not get metal covers. Can you confirm that there are no expansion joints on the project that would require metal covers?

- ***Answer: This is correct.***

Item #41. **Question:** Please provide dimensions for bollards off building face

- ***Answer: Bollards are dimensioned.***

Item #53. **Question**: Please provide a detail where brick meets metal panel wall at south at canopy column and at front entrance

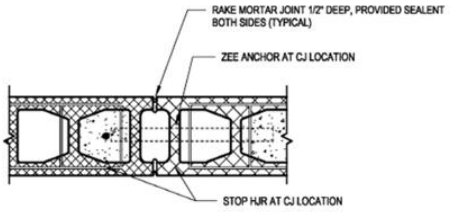
- ***Answer: RFI not clear on detail requested.***

Item #56. **Question:** Sheet A-102 – This sheet indicates control joint locations using a "CJ" abbreviation with an arrow pointing to a red line. There are many locations that just provide a red line. Should these locations be considered the same as the locations that include the "CJ" abbreviation and arrow?

- ***Answer: Control joint locations have been clarified. All joints are shown with a line and a "CJ" label with an arrow in Addendum 3.***

Item #57. **Question:** Sheet A-010 – Detail 2/A-010 – In regard to the Zee Anchors (rigid partition anchors), we concur with using zee anchors at the corners and tee's and this is in agreement with Specification 04 20 00 Section 3.3 Installation:K. They are also shown to occur at straight wall (butt) control joint locations (see snippet). **Is this correct?** Additional information pertaining to this question is as follows: Specification 04 20 00 Section 3.3 Installation:P:2&3 - this narrative contradicts the aforementioned (butt) control joint details by stating the following: (2)"Do not continue horizontal joint reinforcement through expansion joints" (the strap seems to contradict the this break in reinforcement) . (3) "Install preformed control and expansion joint device in continuous lengths. These preformed devices are not shown in the detail and the zee/strap/partition anchors would interfere with the installation of these

devices. Specification 04 20 00 Section 3.3 Installation:K. – only calls out the Zee Anchors (rigid partition/strap anchors) at “Reinforced joint corners and intersections with ... anchors 16 inches OC.”



- ***Answer: The Zee anchor on detail 2/A-010 Is correct. As is the spec. The Detail coordinating with sec section 3.3 P - 2&3, the Zee is for lateral stability only and is not horizontal joint reinforcing. Build as detailed.***

Item #63. **Question:** RFI answer 36 mistakes the referenced detail for the monument sign. The question, and the detail referenced, are about the screen wall. Please provide top of wall for the screen wall.

- ***Answer: Top of CMU wall is 7'-4". Spot elevation added to detail 1/A-502.***

Item #65. **Question:** Please confirm interwiring of the following items will be by the EC per the FS-004 and E-501 drawings? Between hoods/fans/fire system, walk-in refrigeration components, disposers, and dishmachine components. Disconnects are also to be provided by EC per E-501 drawing notes.

- ***Answer: Confirmed, the interwiring shall be by the EC for hoods/fans/fire system, walk-in refrigerator, disposers, and dishmachine per FS & E drawings. Disconnects shall be provided by EC per E drawings. All disconnect sizes, fuse sizes and wire sizes shall be coordinated with equipment submittals prior to ordering.***

Item #74. **Question:** Sheet P-002 calls for L1-L3 faucets but nothing is specified for the lab faucets in the schedule or specs. Please provide.

- ***Answer: Fixtures L1-L3 are to be Elkay Single Hole with Concealed Deck Faucet with 5" Gooseneck Spout 4" Wristblade Handles Model LK500GN05T4. The design intent is to be this faucet. Final coordination with Case Work Provider will be required.***

Item #77. **Question:** What material should the lab sinks be, epoxy resin or stainless steel?

- ***Answer: Sinks to be drop in molded modified epoxy resin, non-glare black finish. Specification to be revised in forthcoming Addendum.***

Item #78. **Question:** Section 06 20 00 calls for AWI QCP labels and/or certificates. This spec section covers a relatively small scope of work for this project and this requirement will add cost. Is it possible to have this AWI QCP requirement removed?

- ***Answer: Spec will be revised to remove requirement for QC program. Note that AWI certification is still required within the qualification section.***

Item #79. **Question:** WD2 Finish calls for 2" thick solid Red Oak wall/ceiling cladding. This product would potentially twist and warp over time and would also be costly. Would rift veneer paneling with solid wood edge would be acceptable in lieu of 2" solid lumber.

- ***Answer: This is acceptable, drawings to be updated in Addendum 3.***

Item #80. **Question:** Section 11 53 00 calls for a specific Liebherr refrigerator/freezer. This product comes from Europe and is very expensive. Please confirm this product is required.

- ***Answer: A refrigerator is required. Refer to specs for other acceptable manufacturers. Sub can provide a product of equal quality from one of the approved manufacturers or provide a substitution request that conforms to the project specification.***

Item #81. **Question:** Spec Section 083313.13 - Coiling Counter Fire Shutter: No coiling doors are called out as fire rated on door schedule. Are there any coiling counter fire shutters on this project and, if so, where are they shown?

- ***Answer: There are no coiling counter fire shutters. This spec section will be removed. Refer to spec section 08 22 13 Coiling Counter Doors.***

Item #89. **Question:** Please confirm per RFI item 39,BP 0420 Turnkey Masonry subs are to contact the vendor for brick pricing and not use the allowance.

- ***Answer: Contact the vendor.***

Item #94. **Question:** Specification 04 20 00-7 2.3 H states to use seismic. Is seismic wire required for this project at joint reinforcement and veneer wall ties at metal studs?

- ***Answer: Normal wall ties can be used, seismic ties are not required.***

Item #99. **Question:** The masonry wall expansion joints (noted on plans as 1" EXP JOINT) are called out on the G series sheet (G-111 life safety plan), they are called out on the A series sheets, they are called out in the S series sheets all with different quantities and locations making it appear as if the design for the location of these joints is still in the design development phase. Can this be cleaned up by showing all the required expansion joints on one sheet the same way the architect has attempted to handle the control joints on Sheet A-102 (see addendum #2 RFI item # 56 requesting this sheet to be cleaned up)? Due to the very tight shop drawing timelines it will be critical to have the design/location of control and expansion joints be completed before execution of contracts. If this design is being off loaded onto the subcontractors the timelines will need to be extended accordingly. Please note these locations are critical to production of the concrete footing package and masonry package rebar shop drawings as embedded vertical dowels occur exactly at each side of these joints.

- ***Answer: Reference Structural drawings for final locations of expansion joint labels.***

Item #102. **Question:** Exterior Elevation 1/A-201 for exterior wall along column L between 9&11 is noted as BRK-1, however that wall returns at column line 11 as BRK-2 between L&K as shown on 3/A-202. Is this an error? Please note you can't do a return with a different brick color at col L & 11. Please clarify.

- ***Answer: This is an error. Areas between L&K are to be BRK-1. This will be corrected in Addendum 3.***

Item #104. **Question**: I need to know if the casework in Science rooms and Prep rooms 312, 316, 318, 411, 415, 418, 511, 515 and 518 are supposed to be plastic laminate, or wood? The elevation drawings, specifically elev. 7/A411, note that the cabinets are PL-1, and that the tops are phenolic resin. On that same sheet, under General Notes (number 2) it states that all science lab and prep room casework is to be wood with epoxy resin tops. Please clarify.

- ***Answer: All science labs and prep room millwork to be chemical resistant plastic laminate with epoxy resin countertops. Legend to be revised in Addendum 3.***

Item #105. **Question:** The Finish Schedule on sheet A701, at the very bottom, references Spec Section 12 35 53 - Wood Laboratory Casework. I don't see a spec section 12 35 53 within the Specifications. IF, the science casework is to be wood, is it Red Oak, or otherwise? Please advise.

- ***Answer: There is no wood laboratory casework in the project. This has been removed. Schedule will be updated in Addendum 3.***

Item #106. **Question:** Also, under General Notes on sheet A411, item number 5, it lists numerous safety equipment items to be provided by the General Contractor. I have never seen this type of requirement before. Will you be looking for us to provide you prices for these items? Some of these items I have no idea about, such as "spill control center, safety/chemical inventory software, broken glass disposal containers." Also, they call for safety shields (one per student), goggles and goggle sanitizer (one per student) and heat & acid resistant gloves (one per student). How many students are we talking about? This is quite out of the ordinary!

- ***Answer: Please look at the specifications and provide for 24 students minimum.***

Item #107. **Question:** S403 details 1, 3, and 5 show the edge of hollow core to be formed and poured with no cmu face shell since it's buried in the cavity. But detail 12 does show cmu, can this be changed to match the other exterior details?

- ***Answer: Detail 12 will be changed to match the other details.***

Item #109. **Question:** On a111 along column line 3, near J.4 there is a wall labeled K44 which is a 4" half high block to be painted. Is the column cover directly across from it also supposed to be K44? It is not marked. Same question for the lower left interior corner of Vestibule 100.

- ***Answer: Yes, this should be K44 in both spots mentioned. Tags have been added in drawing for clarification.***

Item #110. **Question:** Detail 16/s301, I cannot find this detail referenced anywhere. The site drawing c3.1 keynote 5 calls for a screened mechanical yard, but that keynote is not used. It is possible that it refers to the "loading area" indicated by keynote 4, but that screen wall is detail 17/s301. Please advise if I am missing another screen wall.

- ***Answer: This detail was intended for the site sign. The detail has been renamed and dimensions have been updated to match arch.***

Item #111. **Question:** Detail 3/aa502 describes the LED panels as installed on a 3/8" brick inset panel, but the cut section doesn't show this. Will there be brick behind these panels?

- ***Answer: The brick is inset 3/8" inch in from the coursing. There will not be brick behind the panels. The LED panel will be held in place with angle support. See the revised design of 3/A-502.***

Item #113. **Question:** Detail 3/a301 just to the right of the vestibule is a display case, and it appears that the half-high cmu veneer runs from one adjacent column to the other, underneath the display case. You can also see this in 2/a316. However detail 15/a511 does not show this veneer. Please confirm what is intended here.

- ***Answer: The wall supporting the display case now reflects the CMU type that is called out in 15/A-511. This will be a 6" width CMU running between the lengths of the column wraps. 3/A-301 and 2/A-316 now show the 8"h x 6"w block.***

Item #114. **Question:** For the exterior wall running along column line L, details 1&2/a201 show this to be FB1. As it turns the corner at the mechanical screen wall, however, detail 3/a202 shows this to be FB2. Can we get some clarity here?

- ***Answer: This is an error. Areas between L&K are to be BRK-1. This will be corrected in Addendum 3.***

Item #115. **Question:** On a112 at the Dishwashing 214J there is a coiling door with the cut 4/a313, which appears to show 4x4x16 half high cmu veneer and brick above. No cmu veneer is shown on 2/a416, please advise. Should we assume the brick is FB1?

- ***Answer: Brick has been removed. CMU veneer would be above ceiling so it is not shown in 2/A-416. See revised detail 4/A-313.***

Item #116. **Question:** Door schedule lists door 200.X as an SF22 frame. STFR elevation page does not show an SF22. Door is shown on 3/A-202 and appears similar to SF11.

- ***Answer: 200.X changed to have SF11 frame. Changes reflected both on A-116 and A-601.***

Item #117. **Question:** Door schedule lists 400.X and 500.X as a type SF16. Floor plan lists them as SF27.

- ***Answer: This was an error. It has been corrected to be SF27 on door schedule.***

Item #118. **Question:** Doors 511.X and 515.X are shown as SF1 on floor plans, listed as type F on door schedule. They are shown on 9/A-211 as frames that do not have a similar frame on A-611. Are they meant to be separate from the SF1 frames?

- ***Answer: SF1 is just for the glazing condition next to the doors. For 511X, 515X, and similarly, 312X, 316X, 411X, and 415X, all frame types changed to type 2, to capture the transom above the door. This has been updated in A-601.***

Item #119. **Question:** Frame SF16 shows laminated units only in top row. Is this correct?

- ***Answer: This was an error. All units to now be IG2L. Change now reflected in A-611. See glazing schedule on 611 for IG2L to change from white to clear laminate.***

Item #120. **Question:** Lower lites at SF27 in frame and door are gray with no tag. Are these to be metal panels?

- ***Answer: This was an error. All units to now be IG2L. Change now reflected in A-611. See glazing schedule on 611 for IG2L to change from white to clear laminate.***

Item #121. **Question:** Are the unmarked panels on 6/A-420 unframed mirrors?

- ***Answer: These are tempered mirrors, refer to spec section 08 83 00 - Mirrors for more information. Spec reference to be added to drawing for Addendum 3.***

Item #124. **Question:** Please refer to Sheet A-112 at Dinning 212/Serving 213 demising wall that runs along column line 9. On this wall a Section 4/A-313 is called out. This wall section shows a 4'0" high interior veneer that appears to be hatched to indicate 4 x 4 x 16 CMU units starting at elevation 7'4" AFF. I am not able to find an elevation view to allow me to determine the extent of this condition. Please advise.

- ***Answer: Interior Veneer has been removed. The 4x4x16 CMU /Brick. This condition is 14'8" plan north from Column Line L. The CMU transition to Brick veneer at 14'-0" AFF at its lowest point. The intent is for brick veneer to follow the slope of the roof so veneer is exposed at the exterior at all times on demising wall.***

Item #126. **Question:** Do we install the stone base under the building concrete slab?

- ***Answer: No.***

Item #148. **Question:** 1.12.A calls for 2 of each type of shade assembly. We find this tends to inflate the bid price; we request to quote 5% attic stock (typical). Please advise.

- ***Answer: Owner has requested attic stock for common roller shade sizes and types. Revised specification with required quantities and locations to be provided with Addendum 3.***

Item #149. **Question:** 2.3.A.2. specifies, "headbox." MechoShade only offers front fascia for motorized shades. Alternatively, a surface mounted, break metal pocket is available as well. Please advise which is needed.

- ***Answer: The motorized shade (WT3) is to be revised to a single-roll blackout shade. MechoShade appears to have products that meet the spec section referenced in this RFI. Provide product data for substitution request if product does not meet specification. Shade housing to consist of a headbox with fascia and back/top cover.***

Item #150. **Question:** 2.3.A.3 calls for Fabric Retention System on the motorized shade. This is a more involved (expensive) specification than a typical light-blocking shade. Is this required? If yes, may we include for the blackout shade band only? May we exclude Fabric Retention System for the light-filtering shades? If yes, may we quote with the more typical side and sill channel?

- ***Answer: The motorized shade (WT3) is to be revised to a single-roll blackout shade. Provide fabric retention system as specified.***

Item #151. **Question:** 2.3.D calls for the motorized shades to be single roll. The drawings call for the motorized shades (WT-3) to be Dual Shades. Please advise.

- ***Answer: The motorized shade (WT3) is to be revised to a single-roll blackout shade to match specification. Interior Finish Legend on A-701 to be revised.***

Item #154. **Question:** A-511 15 & 16 detail display cases but display cases are not listed within the visual display package nor was a specification provided, whose responsibility are the procurement and installation of display cases?

- ***Answer: Refer to specification section 08 42 26.10 Glass Display Case Doors for information regarding the doors. All other elements of the display case are to be custom millwork per details 15 and 16/A-511. Display cases are in BP0840.***

Item #155. **Question:** Please provide a specification section for 119515 Kilns and Pottery Studio Equipment as listed in BP1020

- ***Answer: Kiln is provided and installed by owner. The removal of the kiln will be clarified in Addendum 3.***

Item #156. **Question:** Quantities of Extinguishers provided in 104400 Fire Protection Specialties do not match quantities shown on the Life Safety plans, which quantity is to be adhered to?

- ***Answer: Refer to drawings. Specification has been revised.***

Item #159. **Question:** Please provide qty of wall corner guards as the space was left blank in specification 10 26 23.14 Wall Protection.

- ***Answer: There are no corner guards in this project, only bullnose CMU. Bullnose locations to be added in Addendum 3 and spec to be revised or removed.***

Item #160. **Question:** Is the ABAA - QAP Program required to be used on the job?

- ***Answer: No, ABAA - QAP is only provided as a reference in the spec for best practices. In the same section under qualifications, there is no ABAA certification required.***

Item #168. **Question:** We were looking at your borrow pit area and questions cam up about silt fence , grass and seed and erosion control items. Please clarify and give more information required for erosion control needed at borrow pit.

- ***Answer: The LOD have been expanded in addendum 3 to include the area of the on site borrow pit. See updated civil sheets.***

Item #169. **Question:** Metal shelving specified in Section 105613 appears to only be shown in rooms 205 and 215. Please clarify if these are the only locations where metal shelving is required. If other locations apply, please provide locations.

- ***Answer: Metal Shelving is only needed in rooms 205 and 215A.***

Item #170. **Question:** Bid Package #1011 calls for the subcontractor to provide and install projector screens, TVs, and TV mounts. However, these items are not shown on the plans or called out in Specification Section 101100 (Visual Display Units). Please confirm if these items are required. If so, please provide the necessary tags or identify their locations so we can provide an accurate estimate.

- ***Answer: These items will be provided and installed by the owner.***

Item #173. **Question:** In reference to detail 8 on A-411 the casework does not show a clear dimension off of the adjacent wall. Please provide.

- ***Answer: Casework is to be installed 6'-0" clear of plan East wall as shown on detail 8/A-411.***

Item #175. **Question:** Please clarify if all 4 sides of the cabinet shelf edges are to receive PVC edge banding. If not, we will include on front edge only.

- ***Answer: PVC edge banding to be provided on all four sides of shelves.***

Item #176. **Question:** Resource rooms #401 on A-114 and #501 on A-115 have elevation tag 10/A-417 noted. This elevation shows two tall cabinets, but the floor plans seem to indicate base and wall cabinets with a sink. Please provide correct elevation for these rooms.

- ***Answer: Resource Rooms 401 and 501 to receive new Interior Elevations to be provided in Addendum 3.***

Item #177. **Question:** Please provide details/elevations of Teacher Display islands in Science classrooms #312, 316, 411, 415, 511 and 515.

- ***Answer: Interior Elevations and Section Details to be provided in Addendum 3.***

Item #180. **Question:** Are SF20/SF21 required to have shades? Most are not marked to receive shades with the exception of SF21 in room 605. If they are to receive shades, please clarify if both transom and sidelights are to receive shades, or only at sidelight.

- ***Answer: No roller shades are required for SF20 or SF21. Tag to be removed from Band 605 on sheet A-716 in Addendum 3.***

Item #181. **Question:** The attic stock requirement for 2 shades per size. This makes sense for the manual shades, but will add a significant cost for the 7 dual motorized shades required on project. Please ask architect for clarification of attic stock for motorized shades.

- ***Answer: Owner has requested attic stock for common roller shade sizes and types. Revised specification with required quantities and locations to be provided with Addendum 3.***

Item #182. **Question:** Floor plans for Area 300,400 & 500 show window type SF1, which are 6'-0"x 6'-0". However, not all openings labeled SF1 are just windows, some depict doors. See Elevations 1,5 & 9/A-211. Please provide correct information for those type frames.

- ***Answer: The glazing condition SF1 directly adjacent to the doors is correct. The doors themselves (312X, 316X, 411X, 415X, 511X, 515X) have changed frame type to now be 2, to record the transom.***

Item #183. **Question:** Area 600 floorplan shows a door labeled 200.X at exterior wall along column 13. However, the door schedule calls for the frame to be type SF22 which doesn't exist on the Window Elevations on sheet A-611. Please provide information.

- ***Answer: 200.X changed to have SF11 frame. Changes reflected both on A-116 and A-601.***

Item #187. **Question:** Please confirm that CFCI Wire Shelving Units shown on the furniture plan area 200 refer to Specification 10 56 13 Metal Storage Shelving.

- ***Answer: Correct.***

Item #189. **Question:** Interior finish legend calls for a Dual-roll motorized black out system at gymnasium window locations however specifications indicate single roll. Is Single or Dual roll the design intent?

- ***Answer: The motorized shade (WT3) is to be revised to a single-roll blackout shade to match specification. Interior Finish Legend on A-701 to be revised.***

Item #190. **Question:** Can flagpole anchorage/foundation system be detailed? Minimal information is shown regarding wall mount system. Please indicate what brackets are to be used, this is usually specified by the building engineer based on the mounting surface.

- ***Answer: The flagpole will not have its own foundation, it will be anchored to the CMU pilaster by the main entrance canopy. Details for the flagpole anchor brackets are provided in detail 2/S-404. The connection of the flagpole to the anchor brackets will need to be coordinated with the flagpole supplier.***

Item #191. **Question:** Currently the project is labeled to use cool season Fescue grass, the project region is better suited for warm season grass type. (Bermuda). Clarify if seed/sod areas are to be cool or warm season grass types.

- ***Answer: Agree, we'll plan to revise our planting plan. Both sod and seeded areas should receive warm season grass types, Bermuda grass.***

Item #192. **Question:** Please clarify the limits of disturbance/construction around the paved areas of L1.0?

- ***Answer: We will revise L1.0 to include the limits of disturbance shown on sheet C2.4 Erosion Control Plan – Phase II.***

Item #193. **Question:** Are the geothermal well fields on page L1.0 within limits of construction? If so what sort of sod/seed do they require?

- ***Answer: They are within the limits of disturbance and should be seeded or plugged with the local extension offices recommended variety of Bermuda grass.***

Item #194. **Question:** How many active hydrants are available for temporary water services?

- ***Answer: There are two active hydrants located along N. Charles Street; however, one is situated a significant distance from the proposed limits of disturbance. Please refer to Sheet C1.1 for reference.***

Item #196. **Question:** Lawns has a specification about athletic fields in section 02921 however section 02 is not used in the bid specs. What are the lawn specs and bid status for the athletic fields?

- ***Answer: We will revise this portion of the specification to exclude athletic fields. No athletic fields are proposed within the limits of disturbance.***

Item #202. **Question:** Kitchen Hoods - KEF-1, MUA-1, KH-1,2 Controls

1. M-003 Kitchen Hood Schedule states "furnished and installed by the M.C."
2. M-003 Kitchen Hood Schedule states "The DCV Includes A Smart Controller, LCD Screen Interface, Duct Temperature Sensors, Room Temperature Sensor, Variable Frequency Drives."
3. M-003 Kitchen Hood Schedule states "BAS Shall Monitor Status and Frequency Hz of Kitchen Fans". Please clarify the responsibility of providing, installing and wiring the Kitchen Hood System (KEF-1, MUA-1, KH-1,KH-2) Controller, Control Devices, and sensors. Is the BAS responsibility to monitor status and frequency of kitchen fans only? Will the kitchen hood system be provided by manufacturer with LCD screen, sensors, VFDs, etc.?

- ***Answer: BAS will monitor only.***

Item #203. **Question:** Water Source Heat Pumps - Controls

1. Specification 238146 implies that the water source heat pumps will be supplied with temperature controls including motorized water valve, control board, thermostat, interface board, etc. by the equipment manufacturer.
2. M-002 Water Source Heat Pump Equipment Schedule calls for provision of "Schneider Electric Smart Structure WSHP controller".

Please clarify if the Water Source Heat Pumps will be provided with factory controls by equipment manufacturer for interface (Bacnet) or if the intent is for the controls contractor to provide a controller (Schneider Electric Smart Structure type) for each heat pump and field installed, per the equipment schedule notes.

- ***Answer: Water Source Heat Pumps to be provided with factory controls by equipment manufacturer for interface (Bacnet), monitoring points noted on M-602***

Item #204. **Question:** Water Source Heat Pumps - Valves

1. Specification 238146 implies that the water source heat pumps will be supplied with temperature controls including motorized water valve, control board, thermostat, interface board, etc.
2. M-002 Water Source Heat Pump Equipment Schedule calls for provision of "Self balancing valve, ball valve and strainer as indicated on water source heat pump piping detail."
3. M-503, detail 1 shows ball valve on the water source heat pump return pipe and a combination valve on the water source heat pump supply side.

Please clarify if the Water Source Heat Pumps will be provided by the equipment manufacturer with all hydronic valves (motorized control valves, isolation valves, ball valves, etc.). Or will the motorized isolation valves need to be provided by the mechanical/controls contractor?

- ***Answer: This will be up to the Mechanical Contractor and the equipment supplier as to who will provide the necessary equipment to comply with spec***

Item #205. **Question:** Water Source Heat Pumps – Supply/Return Water inline pumps

1. Details 1,6, and 14/15 on sheet M-503 show pumps on supply and return water piping for each WSHP.

2. Note 3 on HVAC equipment schedule, sheet M-002, says “mechanical contractor to provide starter w/ auxillary contacts”.

3. Points list on M-602 shows BAS to control and monitor status for each circulator pump. Please clarify who provides the 208vac single phase motor starters for each circulator pump. Please clarify where the on/off and status points are controlled from (factory WSHP controller?, Field mounted BAS [Schneider Smart Struxure controller])?

- ***Answer: Circulator Pumps should be controlled by WSHP controllers. Status to be monitored by BAS, this can be done directly from the pump or through unit controller (if available).***

Item #206. **Question:** Lighting Controls/ BAS Override

1. M-601 Override Panel states “A Central Override Panel shall be located in the admin zone…. Software shall be programmed for fully functional override, to set hvac equipment, receptacles and lighting into occupied mode for a set period of time”.

2. E-802 Lighting system description states “lighting controls are based on stand alone occupancy sensors and controls. Devices shall be independent and not tied into the bas system.” Please clarify if the design intent is for the lighting control system to be standalone (not tied into the BAS).

- ***Answer: There will not be any lighting controls interface with the BAS on this project. Override panel will only apply to HVAC Equipment, no Lighting or Electrical Receptacles controls/interface.***

Item #211. **Question:** Section 116643, 2.1.B lists Nevco as basis of design. Can scoreboards by other manufacturers be bid? We request Fair-Play be allowed as equal. Please advise what we would need to submit to be approved.

- ***Answer: Additional manufacturers (including Fair-Play) will be provided in Spec updates for Addendum 3.***

Item #212. **Question:** Section 116643, 2.1.B model 2700. This model does not have the fouls panel that shows player fouls described in 2.2.A. Do they actually want the model 2750 instead?

- ***Answer: B.O.D. model will be Nevco 2710, spec will be updated in Addendum 3.***

Item #213. **Question:** Section 116643, 2.1.A.1 gives the scoreboard size as 8 x 3, which does match the model 2700. However, below that in 2.2.A.3.a the spec lists captions that are not found on the model 2700. The size indicates a 2700, the captions mentioned would required a 2750 which is a larger board. Please advise.

- ***Answer: Scoreboard size will be 5'x8' and will be updated in specs for Addendum 3.***

Item #214. **Question:** Section 116643, 2.2.A also mentions rear lit caption plates or electronic team names. You can only put one of these options on the board as they occupy the same space. Which one do you want quoted? Should either these options be in the base bid?

- ***Answer: Rear lit caption plates to be used, conflicting information to be removed from spec in Addendum 3.***

Item #215. **Question:** Section 116643, 2.2.A.6 specifies advertising team logo areas on the scoreboards. None of the scoreboards in the Nevco series 2700 have spaces to accommodate team logos on the scoreboards. Please advise.

- ***Answer: This will be removed from spec in Addendum 3.***

Item #216. **Question:** Section 116643, 2.4. ACB list two different model numbers for the control, MPCX and MPCW. Which one do they want?

- ***Answer: MPCW control to be provided, spec will be updated in Addendum 3.***

Item #217. **Question:** Drawing A-413. If you blow up the drawing you can see the features of the scoreboard on the wall. The scoreboard pictured does NOT match the 2700 or the 2750. The scoreboard pictured DOES have the corner logo spaces mentioned in the specs. This feature can be found on several Daktronics and Fair-Play scoreboard models but not in the Nevco 2700 series scoreboards. Please advise.

- ***Answer: The scoreboard on A-413 is a placeholder. Details shown on its surface are for display only and are not a visual of final basis of design.***

Item #218. **Question:** Are any outdoor scoreboards required for this project? There were indicators of existing scoreboards on the fields in some of the drawings. Will these scoreboards be replaced?

- ***Answer: No***

Item #219. **Question:** Please provide descriptions for the red highlighted areas in attachment. See Exhibit A

- ***Answer: The red is highlighting multiple elements. The horizontal to the left of the yellow highlight is coping on top of kitchen area. Horizontal under the yellow highlight is top of the screen wall. The red box circling the blue and yellow is concrete pad on the ground of the receiving area. See A-112, A-116, A-201, & A-202 for clarification of these areas highlighted.***

Item #220. **Question:** Please provide descriptions for the blue and yellow highlighted areas in attachment. See Exhibit A

- ***Answer: Blue: Element of structural model. Yellow: Dumpster placement from civil. Both have been masked out of A-130 for clarity.***

Item #221. **Question:** Almost every roof edge and flashing detail blowups are misplaced or incorrect. Please Revise every wall section page.

- ***Answer: No.***

Item #222. **Question:** FMS 1 is incorrectly called out on Elevation 1/A201. Please Revise.

- ***Answer: This is not incorrect. This is a turn-down from the roof and continuation of soffit.***

Item #223. **Question:** What is the ½ overlay board shown. EX: 8/A532 or 3/A522

- ***Answer: See 2.2 C in spec 072216.***

Item #224. **Question:** What is the 1" board insulation shown. EX: 3/A521

- ***Answer: See 2.2 A 7.B in spec 072216.***

Item #228. **Question:** How is the 16 GA angle attached? 12/A521

- ***Answer: See 1.4 B and D under spec section 054000. Design for cold formed framing is to be by an engineer. Scoping is by Metcon.***

Item #229. **Question:** What is the Gauge /Material of 3x3" metal angle? Is this owned by the wall panel scope? 12/A521

- ***Answer: See 1.4 B and D under spec section 054000. Design for cold formed framing is to be by an engineer. Scoping is by Metcon.***

Item #230. **Question:** There is no air barrier shown behind the spray foam but it is specd and scoped. Please revise details.

- ***Answer: The spray foam is the air barrier. See spec section 072119.***

Item #234. **Question:** Manufacturers are listed in the sheet metal specs but fabrication is mentioned as well. Do copings/ Fascias need to be prefabricated from listed manufacturers? Or can they be shop fabricated?

- ***Answer: They can be shop fabricated but must meet all specifications and fabricator must meet all qualifications.***

Item #235. **Question:** Manufactured Gutters and Downspouts have no listed manufacturers. Can these be shop fabricated?

- ***Answer: They can be shop fabricated but must meet all specifications and fabricator must meet all qualifications.***

Item #236. **Question:** Pipe supports are listed in specs but not shown in drawings. Please clarify if there is a need for pipe supports. If so, is this the responsibility of roofing scope?

- ***Answer: If pipe supports are needed they are the responsibility of the trade partner providing the pipe.***

Item #240. **Question:** Section 23 21 13.33 Titled Ground Loop Heat Piping
Part 1 – (1.3 - A.) States the piping will withstand the minimum of 160 PSI. The specified SDR11 piping is pressure rated at 200 psi. The geothermal system pressure testing is specified at 80 PSI. Please confirm the system's operating pressure of </=80 PSI.

- ***Answer: Correct, operating pressure of </=80 PSI***

Item #241. **Question:** Section 23 21 13.33 Titled Ground Loop Heat Piping
Part 2 – (2.2 B.) Drawing M-010 states the grout conductivity of 1.55 BTU/h x sq. ft. x deg F, but under the Ground Loop Heat Piping Section, it specifies 1.20 BTU/h x sq. ft. x def F. It appears that the 1.55 value is the actual tested ground thermal conductivity, not the grout requirement. Please confirm >/= 1.20 BTU is the correct thermal conductivity.

- ***Answer: Correct, 1.20 BTU/h x sq. ft. x def F is the correct thermal conductivity for the <u>grout</u>. 1.55 is the <u>ground</u> thermal conductivity.***

Item #242. **Question:** Section 23 21 13.33 Titled Ground Loop Heat Piping
Modern NCDEQ Approved grouts utilize graphite instead of sand in their mixtures. Please confirm graphite based grout is acceptable.

- ***Answer: Graphite based grout is acceptable.***

Item #243. **Question:** Section 23 21 13.33 Titled Ground Loop Heat Piping
Part 3 – (3.2 B.) Backfill to 18 Inches above pipe with mud developed from excavated rock-free soil or with sand, pea gravel, or fly ash. Backfill from slurry level to grade with excavated soil, compacting as specified for pipe burial in Division 31 Section "Earth Moving". Mud slurry is not compactible. Clean rock-free excavated soil will be used for backfill to a depth of 18" above the piping. No mud slurry will be used. Please acknowledge that mud is not required in the backfill.

- ***Answer: Mud is not required***

Item #244. **Question:** Section 23 21 13.33 Titled Ground Loop Heat Piping
Part 3 – (3.2 C.) Extend pipe from trench onto the bottom of the body of water at an elevation that is at least 12" below front line. Seal membrane or impervious liner under the body of water

after installing piping. Frost line is not existing at the job site. Therefore, sealing membranes will not be included in this project. Please confirm/acknowledge.

- ***Answer: Sealing Membranes will not be required***

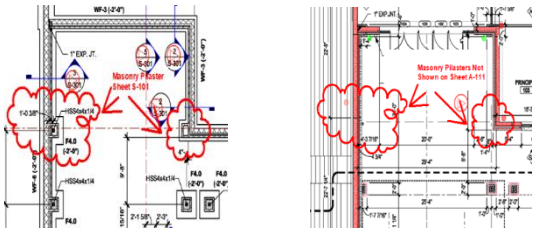
Item #246. **Question:** F. Project Specific Scope Requirements (15.) – Antifreeze solution per spec. Please confirm that these are water only geothermal loops. Other than sanitizing utilizing approved chlorine solutions, no other additives will be required, correct?

- ***Answer: No antifreeze solution in geothermal loops. Only a rust inhibitor additive will be necessary at fill of system.***

Item #247. **Question:** Identification For HVAC Piping and Equipment
Part 2 – Products (C) – Pipe Label Color Schedule calls for Green piping with white lettering. Geothermal wellfield buried piping is manufactured black with white lettering. Confirm that standard Black HDPE geothermal piping is acceptable.

- ***Answer: Pipe Labeling Specification does not apply to in-ground geothermal wellfield piping.***

Item #248. **Question:** E. B. Frink Middle School - Bid package #0420 Turnkey Masonry - RFI #9: Masonry Pilaster indicated on Sheet S-101 but not shown on A-Sheets (see snippets below). No elevation view provided. What is the intent?



- ***Answer: Column wraps added to architectural to match what structural has. Will be updated in A-111.***

Item #250. **Question:** Can a shower detail be provided that shows what type of trim there needs be where the wall tile ends?

- ***Answer: Provide Schluter Schiene trim unit at top open edges and outside open corners per specification 09 30 00 section 2.2B.***

Item #251. **Question:** Also, could it show a transition detail between shower floor tile and resinous flooring?

- ***Answer: Provide Schluter Schiene trim unit at shower floor tile to resinous flooring transition.***

Item #257. **Question:** Please confirm the location of opening #217 on the door schedule on sheet A-601.

- ***Answer: 217 has been removed. Was a duplicate door.***

Item #258. **Question:** Opening #607 for the Fire Pump room on sheet A-116 is marked as being a wood door on an exterior wall. Please confirm if this opening should be quoted as insulated hollow metal to match opening #602B.

- ***Answer: 607 material changed to Insul HM. Change reflected on A-601.***

Item #260. **Question:** Will the FRP doors require factory installed glass or will that be provided and installed by BP #0840?

- ***Answer: No factory installed glass. This should be provided and installed by glazing.***

Item #262. **Question:** Please confirm that there are no steel lintels in the exterior brick that will need to be painted?

- ***Answer: There are lintels that will need to be painted. See strucutral and sheet a-501***

Item #263. **Question:** Please confirm that the pipe bollards do not need to be painted?

- ***Answer: Yes, yellow as specified.***

Item #264. **Question:** Please confirm that the galvanized stairs and railings shown on the plans do need to be painted per Scope of Work and Specs?

- ***Answer: No, paint is not required.***

Item #265. **Question:** Please confirm that the aluminum frames and exterior canopies do not need to be painted? There is a painting spec for aluminum in the Painting Specs.

- ***Answer: That is correct. They should be shop finished.***

Item #266. **Question:** The 123216 spec calls for cabinet backs with ½" particleboard. Please confirm if ¼" MDF Cabinet Backs are acceptable.

- ***Answer: No. Install per specification.***

Item #267. **Question:** The 123216 spec calls for drawer bottoms with ½" prefinished hardboard. Please confirm if ¼" MDF Drawer Bottoms are acceptable.

- ***Answer: No. Install per specification.***

Item #271. **Question:** Dampers

1. Mechanical Ductwork Plans show Dampers in the Outside Air Duct to Water Source Heat Pumps.

2. M-002 WSHP Equipment Schedule Note 10 calls for provision of Demand Control Ventilation Controls where indicated for OA Flow/ Damper Control indicated by 'DCV'.

3. M-502 detail 6 and detail 7 show Outside Air Duct with Motorized Damper or Air Flow Monitoring Station for Water Source Heat Pumps. Is an air flow measuring station device required for outside air on applicable WSHPs?

- ***Answer: For units indicated with DCV yes, some means of airflow measuring will be necessary to modulate damper(s) from MIN to MAX airflow setpoint(s)***

Item #278. **Question:** For the Acoustical Ceiling Tile and Grid it is called out on the Interior Finish Legend as Armstrong Calla, then called out as Armstrong Ultima or Equal on the specifications. Could you please confirm what is to be priced?

- ***Answer: Armstrong Calla will be the BOD. Specifications will be changed.***

Item #279. **Question:** What is the gray shaded glazing to the left and right of the door at SF27?

- ***Answer: All panels in SF27 changed to be IG2L. See A-611.***

Item #280. **Question:** Which of the 3 mirrors, FMIR, MIR and MIR2 are frameless?

- ***Answer: FMIR, MIR, and MIR2 are framed per Toilet Accessory Legend on A-401 and specification 10 28 00. Tempered mirrors in Chorus 604 should reference specification 08 83 00.***

Item #281. **Question:** Where is SF26 located?

- ***Answer: SF26 tag added to its placement on sheet. See A-112 at room 214D Office.***

Item #282. **Question:** Drawing A-501 (Details 1,3, and 7) states that continuous Spray foam insulation is required for the below-grade masonry cavity. Typically we install rigid insulation and grout in the cavity. Is spray foam insulation required for the below-grade masonry cavity?

- ***Answer: Yes. Install as detailed.***

CHANGES TO SPECIFICATIONS

SECTION 01 22 00 - Unit Prices

Item #1. Remove in Section 2.1 Schedule of Unit Prices remove Section Q in reference to Irrigation System.

SECTION 06 20 00 – Finish Carpentry

Item #1. Remove line 2. "AWI (QCP) of sub-section E under Section 1.2 References.
Item #2. Remove sub-section F. Certificates under Section 1.4 Submittals: AWI (QCP).
Item #3. Replace line 1. under 1.5 Quality Assurance A. Fabricator Qualification. To state 1. All work to adhere to the latest version of AWI Quality Standards.
Item #4. Remove sub-section B. Quality Certification under Section 1.5 Quality Assurance.
Item #5. Revise Section 2.2 Components, for all Cut or Slicing of wood to be Plain Sawn or Plain Sliced.
Item #6. Revise Section 2.2 Components, in sub-section D. Hardwood Plywood line 4. Matching of Individual Leaves to Each Other: Slip matching.
Item #7. Remove Collaboration 300 Accent Pilasters from Section 2.7 Schedules in sub-section A. Interior.

SECTION 08 33 13.13 – Coiling Counter Fire Shutter

Item #1. Removed section.

SECTION 09 65 00 – Resilient Flooring

Item #1. Revised LVT alternate selections.

SECTION 10 26 23.14 – Wall Protection

Item #1. Section removed from Specification Manual as corner guards are not used in the project.

SECTION 10 44 00 – Fire Protection Specialties

Item #1. Remove Sub-Section C. In section 3.6, removing quantities. Contractor to refer to drawings.

SECTION 11 66 53 – Interior Scoreboards

Item #1. Removed all verbiage for wrestling, provided additional manufacturers, revised scoreboard Basis of Design model number and attributes, revised control center Basis of Design.

SECTION 12 24 13 – Roller Window Shades

Item #1. Revised attic stock requirements found in section 1.12 per owner request.

SECTION 12 32 16 – Manufactured Plastic Laminate-Clad Casework

Item #1. Added supplemental Phenolic Resinous countertop information. Added Sink information.

CHANGES TO DRAWINGS

Architectural

A-102 – Overall Plan – Control Joints

- All control joints labeled.

A-111 THRU A-116 – Area Plans

- Revised placement of bullnose CMU.

A-111 - Area 100

- K44 tags added to column wraps in lobby and vestibule.
- Added masonry wraps to entry around column at front canopy.

A-112 – Area 200

- Added SF26 tag to glazing at 214D Office.

A-114 – Area 400

- Added Interior Elevations to Resource Rm 501

A-115 – Area 500

- Added Interior Elevations to Resource Rm 401

A-116 - Floor Plan – Area 600

- Added dimensions to bollards.
- Door 200.X now has SF11 tag.

A-130 – Overall Roof Plan

- Dumpster and structural elements masked from view to clarify roof plan.

A-201 – Overall Exterior Elevations

- Added dimension height of screen wall at loading area.
- Removed sun screens from detail 1/A-201.
- Revised metal panel pattern.

A-202 – Overall Exterior Elevations

- Changed brick color at kitchen to match adjacent areas.
- Revised metal panel pattern.

A-212 – Metal Wall Panel Elevations

- Sheet added. Clarifies/alters metal panel layout on gym elevations.

A-301 – Building Sections

- Block under display case changed to 6” CMU to reflect what is shown in 15/A-511.

A-313 – Wall Sections

- Detail 4 - Removed brick on interior side of wall facing dining space. Reworked/deleted some elements within detail.

A-316 – Wall Sections

- Detail 2 - Block under display case changed to 6” CMU to reflect what is shown in 15/A-511.

A-401 - Enlarged Toilet Plans and Interior Elevations

- Added Coat Hook (CH) to BOYS 126 to meet requirements in specification 10 28 00.

A-402 - Enlarged Toilet Plans and Interior Elevations

- Added Coat Hook (CH) restrooms 102A, 129, 301A to meet requirements in specification 10 28 00.

A-403 - Enlarged Toilet Plans and Interior Elevations

- Added Coat Hook (CH) to GIRLS LKR 126 to meet requirements in specification 10 28 00.

A-404 - Enlarged Toilet Plans and Interior Elevations

- Added Coat Hook (CH), FMIR, and (2) MIR1 to BOYS 218 to meet requirements in specification 10 28 00.
- Added Coat Hook (CH) to GIRLS 217 to meet requirements in specification 10 28 00.

A-411 THRU A-420 - Interior Elevations

- Reduced height of accessible millwork from 2'-10" to 2'-9.5" to allow for height of drop-in sink so cabinet still meets ADA reach range requirements.

A-411 THRU A-412 - Enlarged Plans and Interior Elevations - Science Labs

- Revised Legends to clarify conflicting information, provided additional mounting height information and reference sheet number.
- Revised millwork heights to align with top of adjacent door frames.
- Added Interior Elevations and Section Details for Teacher's Display millwork.

A-413 – Interior Elevations – Gym

- Detail 2 – Revised Mech Louver annotation to provide color information.
- Detail 1, 2, 3, 7 – Revised Acoustical Wall Panel layout and colors, revised Scoreboard size and location.

A-419 – Interior Elevations

- Added typical Resource Room details 10-13.

A-420 - Interior Elevations

- Detail 6 – Added specification callout for mirrors.

A-501 – Exterior Details

- Revise detail 1 to remove spray foam below grade and provide revise additional information on water/vapor barrier associated with the detail.
- Revise detail 3 to remove spray foam below grade and provide revise additional information on water/vapor barrier associated with the detail.
- Revise detail 7 to remove spray foam below grade and provide revise additional information on water/vapor barrier associated with the detail.

A-502 – Exterior Details

- Detail 1 - Spot elevation added to top of CMU.
- Removed sun screen details, Detail 4, 5, 6, & 7.
- Revise Detail 3 for sign wall modifications.

A-512 - Interior Details - Millwork

- Detail 2 added.

A-515 – Interior Details – Ceiling

- Detail 7 – Replaced solid wood WD2 with wood veneer WD3 and MDF.

A-601 – Door Schedule

- Door 607 included in schedule.
- Door 200X frame type changed to SF11.
- Door 312X frame type changed to 2.
- Door 316X frame type changed to 2.
- Door 400X frame type changed to SF27.
- Door 411X frame type changed to 2.
- Door 415X frame type changed to 2.
- Door 500X frame type changed to SF27.
- Door 511X frame type changed to 2.
- Door 515X frame type changed to 2.
- 217 removed.
- Door 607 material type changed to Insul HM.

A-611 – Window Elevations

- IG2L in glazing schedule changed from white laminate to clear laminate.
- SF16 – All panels now IG2L.
- SF27 – All panels now IG2L.

A-701 – Interior Finish Legend

- Revised size of “WD2”. Added “WD3” and “AWP7”.
- Moved “PR1” to 12 32 16 – Manufactured Plastic-Laminate-Clad Casework and removed section 12 35 53 – Wood Laboratory Casework.
- Revised “WT3” dual-roll shade to single-roll blackout shade.
- Revised “RF1” and “RF2” to provide color selection.

A-716 – Finish Floor Plan – Area 6

- Removed WT tag from exterior door in Band 605.

Civil

C-0.0

- Drawings C2.3 and C2.7 were revised and added to the Sheet List Table. Limits of disturbance revised to 42.00 AC along with revisions to waterline lengths.

C-1.1

- Location provided for existing active hydrant along property frontage.

C-2.0

- Revised to include additional limits of disturbance and erosion control measures for borrow pit area.

C-2.1

- Revised to include small portion of overall addition to the limits of disturbance for borrow pit area.

C-2.2

- Revised to include revised limits of disturbance (42.00 AC).

C-2.3

- Additional sheet provided for erosion control measures of proposed borrow pit area. Additional sediment basin and temporary ditches included.

C-2.4

- Revised to include additional limits of disturbance and erosion control measures for borrow pit area. Renumbered, formerly C2.3.

C-2.5

- Revised to include small portion of overall addition to the limits of disturbance for borrow pit area. Renumbered, formerly C2.4.

C-2.6

- Revised to include revised limits of disturbance (42.00 AC). Renumbered, formerly C2.5.

C-2.7

- Additional sheet provided for erosion control measures of proposed borrow pit area. Originally, E&SC detail sheet.

C-2.8

- Revised erosion control details to include calculations of temporary ditches C & D along with temporary rip rap dissipator pad – 3. Renumbered, formerly C2.6.

C-2.9

- Revised erosion control details to include the addition of Temporary Skimmer Basin 3 calculations. Renumbered, formerly C2.7.

C-2.10

- Renumbered, formerly C2.8.

C-2.11

- Renumbered, formerly C2.9.

C-4.1

- Revision of Utility layout to include section of 8” waterline increased to 12”.

C-4.3

- Revision of waterline profile to include section of 8” increased to 12”.

L-1.0

- Revision to now provide proper seeding for geothermal well fields.

L-1.1

- Revision of ‘Hardwood mulch’ to ‘Bermuda grass’ for ground cover.

Structural

S-301

- Updated detail title of 16/S-301 to clarify that it should be used for the site design.

S-403

- Removed CMU face shell at edge of hollowcore in detail 12/S-403 to match other details of similar edge conditions.

S-404

- Added dimension for length of flag pole connection bracket in detail 2/S-404.

Plumbing

P-002

- Faucet specification added for L1, L2 and L3 lab sinks.

P-216

- Future CW connection added to 600 wing for future green house.

Mechanical

M-010

- Revised grout conductivity

M-117

- Revised Gym Grille note to coordinate color with Acoustical Panel System.

Electrical

E-010

- Provided electrical provisions for greenhouse building.

E-211

- Relocated AV rack power for gym sound system.

E-706

- Updated panel schedules for greenhouse building.

Fire Alarm

FA-111

- Moved sound system shutdown relay device to coordinate with requested sound system rack location in Gym stg 124.

Technology

T-001

- Added Contractor Responsibility Matrix.
- Added symbols to Symbol Legend referencing the gym sound system.

T-505

- Added Detail 6: Gym Sound System Riser Diagram.

TI-111

- Added sound system components to gym.

END OF ADDENDUM

SECTION 06 20 00

FINISH CARPENTRY

PART 1 GENERAL

1.1 SUMMARY

A. Section includes finish carpentry materials and work not otherwise indicated in other Sections.
   1. Finish carpentry items.
   2. Wood trim.
   3. Hardware and attachment accessories for finish carpentry items not specified in other Sections.

B. Related Requirements:
   1. Section 06 10 53 - Miscellaneous Rough Carpentry: Grounds and support framing.
   2. Section 09 90 00 - Painting and Coating: Painting and finishing of finish carpentry items.
   3. Section 12 32 16 - Manufactured Plastic-Laminate-Faced Casework: Shop fabricated cabinet work.

1.2 REFERENCES

A. American National Standards Institute (ANSI):
   1. ANSI A135.4 - Basic Hardboard; 2020.
   2. ANSI A208.1 - Particleboard; 2022.

B. American National Standards Institute (ANSI) and Decorative Hardwood Association (formerly Hardwood Plywood and Veneer Association (HPVA)):
   1. ANSI/HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood; 2020.

C. The Engineered Wood Association (APA):
   1. APA PS 1 - Structural Plywood; 2019, Revised 2020.

D. American Wood-Preservers Association (AWPA):
   1. AWPA U1 - Use Category System: User Specification for Treated Wood; 2023.

E. Architectural Woodwork Institute (AWI):
   1. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014, Errata 2016.

F. ASTM International (ASTM):
   1. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
   2. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023c.
   3. ASTM F1667/F1667M - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples; 2021a.

G. Builders Hardware Manufacturers Association (BHMA):
   1. BHMA A156.9 - Cabinet Hardware; 2020.

H. California Department of Public Health (CDPH):
   1. CDPH Standard Method VOC v1.2 - Standard Method For The Testing And Evaluation Of Volatile Organic Chemical Emissions From Indoor Sources Using Environmental Chambers - Version 1.2; 2017.

I. National Electrical Manufacturers Association (NEMA):

1. NEMA LD 3 - High Pressure Decorative Laminates; 2005.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Section 01 30 00 - Administrative Requirements: Coordination and sequencing work.

B. Coordinate the work with plumbing rough-in, electrical rough-in, installation of associated and adjacent components.

C. Sequence work to ensure utility connections are achieved in orderly and expeditious manner.

1.4 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures.

B. Product Data: Submit the following data:
1. Wood materials to be used in viewable construction.
2. Veneer materials.
3. Fire retardant and preservative treatment materials and application instructions.
4. Finish materials.
5. Attachment hardware, and finish hardware.

C. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, accessories, and to minimum scale of 1-1/2 inch equals 1 foot.
1. Provide the information required by AWI/AWMAC/WI (AWS).

D. Samples for Initial Selection: Two manufacturer's color samples illustrating the full range of finishes, patterns, and colors available for each finish surface type, trim and hardware indicated; submit for Architect’s initial selections.
1. For clear coats on stained wood, samples to illustrate range of stain colors and sheens available as applied to wood species required in construction.
2. For clear coats on non-stained wood, samples to illustrate sheens available as applied to wood species required in construction.

E. Samples for Verification: From the Architect’s initial selections, prepare and submit two samples for each selected finish, pattern, and color; minimum 4 x 4 inch samples and actual trim and hardware. Where finishes involve normal color and texture variations, include sample sets showing the full range of variations expected.

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating products indicated in this Section with minimum five (5) years documented experience.
1. All work to adhere to latest version of AWI Quality Standards.

B. Maintain copy of AWI/AWMAC/WI (AWS) on site available for review.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Section 01 60 00 - Product Requirements.

B. Deliver factory-fabricated units to project site in original packages, containers or bundles bearing brand name and identification.

C. Store finish carpentry items under cover, elevated above grade, and in a dry, well-ventilated area not exposed to heat or sunlight.

D. Protect from moisture damage.

E. Handle materials and products to prevent damage to edges, ends, or surfaces.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Quality Standard: Products and work of this Section is to comply with the following grade in accordance with AWI/AWMAC/WI (AWS), unless otherwise indicated.
   1. Grade:
      a. Custom Grade.
   2. Moisture Content for Wood Based Products:
      a. Interior Use: 6 - 8 percent.
      b. Exterior Use: 8 - 10 percent.
   3. Quality to be suitable for transparent finish unless indicated otherwise.

B. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by authority having jurisdiction and applicable code.

2.2 COMPONENTS

A. Softwood Lumber:
   1. Species of Wood:
      a. Southern Pine.
   2. Cut or Slicing of Wood:
      a. Plain Sawn.

B. Hardwood Lumber:
   1. Species of Wood:
      a. Red Oak.
   2. Cut or Slicing of Wood:
      a. Plain Sawn.

C. Softwood Plywood: Refer to ACCESSORIES article in this Section for adhesive type.
   1. Core Type:
      a. Veneer core.
         1) Exterior grade for exterior use.
   2. Species of Face Veneer: APA PS 1 Grade B-B.
      a. Fir.
   3. Slicing of Face Veneer:
      a. Plain Sliced.

D. Hardwood Plywood: Refer to ACCESSORIES article in this Section for adhesive type.
   1. Core Type:
      a. Veneer core.
         1) Exterior grade for exterior use.
   2. Species of Face Veneer: ANSI/HPVA HP-1 Grade A.
      a. Red Oak.
   3. Slicing of Face Veneer:
      a. Plain Sliced.
   4. Matching of Individual Leaves to Each Other: Slip matching.
   5. Matching Across Panel Face: Balanced matching.

E. High Pressure Decorative Laminate (HPDL): NEMA LD 3.
   1. High Wear Surfaces: HWS (0.060 inch thick).
   2. Horizontal Surfaces: HGS (0 048 inch thick).
   3. Vertical Surfaces: VGS (0.028 inch thick).
   4. Cabinet Liner Surfaces: CLS (0.02 inch thick).
   5. Concealed Backer Surfaces: BKL (0.02 inch thick) undecorated laminate backer for application to concealed backside of panels faced with HPDL.

6. Laminate Adhesive: Type recommended by laminate manufacturer to suit application; not containing formaldehyde or other volatile organic compounds.
7. Colors and Finish:
   a. Vertical Surfaces:
      1) As selected by Architect from manufacturer's full range.
   b. Horizontal Surfaces:
      1) As selected by Architect from manufacturer's full range.

F. Particleboard: Medium density; moisture resistant; not less than Type M-2 exterior glue complying ANSI A208.1; sanded faces.

G. Hardboard: ANSI A135.4; Pressed wood fiber with resin binder, Class 1 (tempered grade), 1/4 inch thick, smooth one sides (S1S).

H. Glass Shelves: ASTM C1048, Kind FT Fully tempered, Condition A, uncoated, Type 1 transparent flat, Class 1 clear, Quality q3 glazing select; with horizontal tempering, arrised edges.

2.3 ACCESSORIES

A. Adhesive: Wood-to-wood adhesive used to glue for thickness, width, or lay-up of veneered construction. Application to be in accordance with the manufacturer’s instructions and the adhesive’s intended purpose.
1. Type I: Exterior or non-climate controlled interior applications.
2. Type II: Interior climate controlled applications.

B. Shelf Standards and Fitted Supports: Stainless steel; satin finish.
1. Standards to be formed channels, slotted for fitted supports spaced at 1 inch centers.

C. Shelf Brackets: Stainless steel; satin finish.
1. Fabricated with angled extension support, pre-drilled and countersunk fastener holes.

D. Mirror Attachment Accessories: Stainless steel J-profile channels; satin finish.

E. Fasteners and Adhesives:
1. Fasteners: Steel of size and type to suit application; hot dipped galvanized steel for high humidity and treated wood locations, unfinished steel elsewhere.
   a. Concealed Joint Fasteners: Threaded steel.
   b. Exterior Fasteners: Length required to penetrate wood substrate 1-1/2 inch.
      1) Stainless steel, Grade 304 or 316 and complying with ASTM F1667/F1667M.
2. Adhesive for Purposes Other Than Laminate Installation: Suitable for the purpose; not containing formaldehyde or other volatile organic compounds.

F. Lumber for Shimming and Blocking: Softwood lumber.

G. Veneer Edge Band: Standard wood veneer edge band matching face veneer.

H. Wood Filler: Base type as recommended by manufacturer of finish materials and tintable to match surrounding surface finish.

I. Primer: Low VOC alkyd primer sealer type.
1. Interior Primers: Maximum volatile organic compound content in accordance with CDPH Standard Method VOC v1.2.

2.4 HARDWARE

A. Hardware: Comply with BHMA A156.9.
1. Hinges: European style, stainless steel, satin finish.
2. Pulls: Wire style.

a. Stainless steel, satin finish.

3. Drawer Slides: Full suspension style, powder coat finish.
4. Cabinet Locks: Keyed cylinder, two keys for each lock, master keyed, steel with satin finish.

2.5 WOOD TREATMENT

A. Factory-Treated Lumber: Comply with requirements of AWPA U1 - Use Category System for pressure impregnated wood treatments determined by use categories, expected service conditions, and specific applications.

B. Fire Retardant Treatment (FR-S Type): Chemically treated and pressure impregnated; capable of providing flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.

1. Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.

C. Wood Preservative by Pressure Treatment (PT Type): AWPA U1 Treatment using water borne preservative with 0.25 percent retainage.

D. Shop pressure treat wood materials requiring fire rating to concealed wood blocking.

E. Provide identification on fire retardant treated material.

F. Deliver fire retardant treated materials cut to required sizes. Minimize field cutting.

G. Redry wood after pressure treatment to the indicated percent moisture content.

2.6 FABRICATION

A. Verify field measurements prior to fabrication.

B. Fabricate in accordance with PERFORMANCE REQUIREMENTS article of this Section.

C. Shop assemble work for delivery to site, permitting passage through building openings.

D. Fit exposed sheet material edges with matching veneer edging. Use one piece for full length only.

E. Cap exposed high pressure decorative laminate finish edges with material of same finish and pattern.

F. Shop prepare and identify components for book match grain matching during site erection.

G. When necessary to cut and fit on site, fabricate materials with ample allowance for cutting. Furnish trim for scribing and site cutting.

H. Apply high pressure decorative laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises.

I. Apply laminate backing sheet to reverse face of high pressure decorative laminate finished surfaces.

2.7 FINISHING

A. Shop finish items indicated to be shop fabricated and finished for installation at site.

B. Sand work smooth and set exposed nails and screws.

C. Apply wood filler to fill recessed nail and screw indentations.

1. On items to receive transparent finishes, tint wood filler to matching surrounding surfaces and of types recommended by manufacturer of applied finishes.

D. Apply seal coat to concealed wood surfaces in contact with cementitious materials.

E. Back prime woodwork items to be field finished, prior to installation.

F. Finish work in accordance with AWI/AWMAC/WI (AWS), Section 5 - Finishing for grade indicated in PERFORMANCE REQUIREMENTS article of this Section and as follows:
1. Refer to Section 09 90 00 - Painting and Coating for finishes for interior wood.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.

B. Verify adequacy of backing and support framing.

C. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

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 in accordance with PERFORMANCE REQUIREMENTS of this Section.

C. Set and secure materials and components in place, plumb and level.

D. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

E. Install trim with finish nails at 12 inches on center.
1. Set, fill and finish over fastener locations to match surrounding finish.

F. Install hardware.

G. Site Applied Wood Treatment:
1. Apply preservative treatment.
2. Brush apply one coat of preservative treatment on wood in contact with cementitious materials. Treat site-sawn cuts.
3. Allow preservative to dry prior to erecting members.

3.4 ERECTION TOLERANCES

A. Section 01 40 00 - Quality Requirements: Tolerances.

B. Maximum Variation from Indicated Position: 1/16 inch.

C. Maximum Offset from Alignment with Abutting Materials: 1/32 inch.

3.5 CLEANING

A. Section 01 73 00 - Execution and Section 01 77 00 - Closeout Procedures: Clean installed work and comply with manufacturer's recommendations.

3.6 PROTECTION OF INSTALLED CONSTRUCTION

A. Section 01 73 00 - Execution: Protecting installed construction.

3.7 SCHEDULES

A. Interior:
   1. Lobby 114 – Display cabinets: Masonry & Metal stud framing with HWS plastic laminate over medium density particleboard.

END OF SECTION

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.

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; 2023d.
4. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2023.
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; 2023.
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 F1914 - Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering; 2018, Reapproval 2023.
16. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.
17. ASTM F2195 - Standard Specification for Linoleum Floor Tile; 2018, Reapproval 2023.
18. 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. : Provide a minimum of fifteen (15) year manufacturer's warranty.

B. Vinyl Composition Tile: Provide five (5) 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.

B. Resilient Flooring: Furnish to Owner the following for each type and color installed.
1. Fifty (50) square feet of flooring.

C. Resilient Wall Base: Furnish to Owner the following for each type and color installed.
1. One hundred (100) linear feet of wall base.
2. Ten (10) each of pre-molded corners matching color and profile of each wall base.

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.

B. Static Load Limit : ASTM F970 : 1500 PSI

2.2 RESILIENT TILE FLOORING

A. Luxury Vinyl Tile (LVT):
1. LVT1
   a. Basis of Design: Patcraft – Polychrome, ECRU 00120 – 9"x48" x 2.5mm
   b. Alternate 1 – Shaw Contract – Vertical Layers Unveil – Faded 01103 - 9"x36" x 3.0mm
   c. Alternate 2 – Tarkett – Color Play Color Beam – Powder Grey C115 - 9"x36" x 3.0mm
2. LVT2
   a. Basis of Design: Patcraft – Polychrome, Balsam 00320 – 9"x48" x 2.5mm
   b. Alternate 1 - Shaw Contract – Vertical Layers Unveil – Patina 01326 - 9"x36" x 3.0mm

c. Alternate 2 - Tarkett – Color Play Color Beam – Viridian C104 - 9”x36” x 3.0mm

3. LVT3
   a. Basis of Design: Patcraft – Polychrome, Viridian 00380 – 9”x48” x 2.5mm
   b. Alternate 1 - Shaw Contract – Vertical Layers Unveil – Burnish 01486 - 9”x36” x 3.0mm
   c. Alternate 2 - Tarkett – Color Play Color Beam – Cerulean C103 - 9”x36” x 3.0mm
4. LVT4
   a. Basis of Design: Patcraft – Polychrome, Cerulean 00220 V2 – 9”x48” x 2.5mm
   b. Alternate 1 - Shaw Contract – Vertical Layers Unveil – Tarnish 01585 - 9”x36” x 3.0mm
   c. Alternate 2 – Tarkett – Color Play Color Beam – Juniper C101 - 9”x36” x 3.0mm
5. LVT5
   a. Basis of Design: Patcraft – Equal Mix of LVT2, LVT3, LVT4.
   b. Alternate 1 – Shaw Contract – Equal Mix of Alternate 1 - LVT2, LVT3, LVT4.
   c. Alternate 2 – Tarkett – Equal Mix of Alternate 2 - LVT2, LVT3, LVT4.

B. Rubber Tile:
1. Manufacturers:
   a. Flexco Corporation.
   b. Johnsonite, a Tarkett Company.
   c. Mannington Commercial.
   d. Roppe Corporation.
   e. Substitutions: See Section 01 60 00 - Product Requirements.
2. Basis of Design:
   a. As indicated on Drawings.
3. Class and Type: Comply with ASTM F1344.
   a. Class I - Homogeneous Rubber Floor Tile.
      1) Type A - Solid Color.
4. Hardness: Comply with ASTM F1344 when tested in accordance with ASTM D2240.
   a. Grade 1, minimum 85 Shore A durometer.
5. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter (Class 1), when tested in accordance with ASTM E648 or NFPA 253.
6. Tile Size:
   a. As indicated on Drawings.
7. Total Thickness: 0.125 inch (3.2 mm).
8. Wear Layer Thickness: 0.040 inch (1 mm).
9. Pattern and Surface Texture:
   a. As indicated on Drawings.
10. Color:
    a. As indicated on Drawings.

2.3 RESILIENT WALL BASE - NON-VENTED TYPE

A. Manufacturers:
1. Mannington Commercial.
2. Johnsonite, a Tarkett Company.
3. Roppe Corporation.
4. Substitutions: Section 01 60 00 - Product Requirements.

B. Basis of Design:

1. Johnsonite, a Tarkett Company.

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. 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. To be selected by Architect from manufacturer's full range.

2.4 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. As indicated on Drawings.

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/Riser Style: Single piece covering full width and depth of stair nosing, tread, and riser in one piece; nosing not less than 1-3/4 inches deep.
   a. Bottom edge of nosing is to abut and join to top edge of riser covering material below without gap or void and in a manner as to prevent protruding trip hazard at bottom of nosing edge.

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.

H. Tread Design Pattern:
1. As indicated on Drawings.

I. Stair Landings Flooring: Same manufacturer, material, color, and pattern as the Stair Covering.

J. Colors: Integral throughout product.
1. As indicated on Drawings.

2.5 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.

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.

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 11 53 00

LABORATORY EQUIPMENT

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Corrosives and acids storage cabinets.
2. Flammables storage cabinets.
3. Laboratory refrigeration units.
4. Accessories.

~~***230719***~~

1.2 REFERENCES

A. Environmental Protection Agency (EPA).

B. Factory Mutual (FM).

C. International Code Council (ICC) - International Fire Code (IFC):
1. ICC I-CODE IFC - International Fire Code; 2021.

D. National Fire Protection Association (NFPA):
1. NFPA 1 - Fire Code; 2021, Errata 2022.
2. NFPA 30 - Flammable and Combustible Liquids Code; 2024.

E. Underwriters Laboratories Inc. (UL):
1. UL (Dir) - Online Certification Directory; Current Edition.

F. US Department of Labor - Occupational Safety and Health Act (OSHA).

1.3 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
1. Section 01 30 00 - Administrative Requirements: Requirements for coordination.
2. Coordinate requirements of this Section with any utilities, alarms, or grounding connection requirements that may be required.

1.4 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures.

B. Product Data: Submit data and drawings indicating compliance with product specifications Regulatory Requirements indicated in this Section.

C. Manufacturer’s Installation Instructions: Indicate special installation criteria and interface with adjacent components.

1.5 QUALIFICATIONS

A. Manufacturer Qualifications: Company specializing in manufacturing Products specified in this Section with minimum five (5) years documented experience.

B. Installer Qualifications: Company specializing in performing work of this Section and with minimum three (3) years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.

B. Deliver products in manufacturer's original packaging. Store materials in a dry, protected, well-vented area. Inspect product upon receipt and report damaged material immediately to delivering carrier and note such damage on the carrier's freight bill of lading.

1.7 WARRANTY

A. Section 01 77 00 - Closeout Procedures: Product warranties.

B. Manufacturer's Warranty: Provide manufacturer's standard ten (10) year warranty for materials and workmanship to be free of defects. Warranty duration to begin with the date of Substantial Completion.

PART 2 PRODUCTS

~~Architect, if your design indicates appliances/equipment that are to be installed in Science Classrooms/Labs (schools), comply with the current "N.C. Board of Education - Check List For Science Safety Requirements" which includes (2013) the following, "Refrigerators shall be provided as directed by the school system. If refrigerators are provided, they shall be spark free." Indicate compliant equipment in this Section and on Drawings.~~

2.1 CORROSIVES AND ACIDS STORAGE CABINETS

A. Regulatory Requirements:
   1. Comply with approvals and requirements of FM, UL, OSHA, NFPA 1, NFPA 30, ICC I-CODE IFC, EPA, and authorities having jurisdiction.

B. Manufacturers:

~~Architect, Michael Holborn provided list of mfr's (Durham, Global, Justrite, Labconco) for the Hoke HS 2023 project (Corrosives and Acids Storage Cabinets) Modify as needed per your design.~~

   1. Durham Manufacturing.
   2. Global Industrial.
   3. Justrite.
   4. Labconco.
   5. Substitutions: Section 01 60 00 - Product Requirements.

C. Basis of Design: Justrite - Sure-Grip EX Safety Storage Cabinet.

~~Architect, Corrosives and Acids Storage Cabinets data added per Justrite, Sure-Grip EX - 893022 (44Hx43Wx18D) BOD data from Michael Holborn for Hoke HS 02209.000, 2023. Modify as needed per your design~~

D. Storage Cabinet Types:
   1. Acid Storage Cabinet:
      a. Size and Capacity:
         1) 65 H x 24 W x 18 D inches. 22 gallons (83 L) capacity.
         ~~2) 44 H x 43 W x 18 D inches. 30 gallons (114 L) capacity.~~
      b. Color: As selected by Architect from manufacturer's full range.
   2. Base Storage Cabinet:
      a. Size and Capacity:
         1) 65 H x 24 W x 18 D inches. 22 gallons (83 L) capacity.

~~2) 44 H x 43 W x 18 D inches. 30 gallons (114 L) capacity.~~

b. Color: As selected by Architect from manufacturer's full range.

E. Cabinet:
1. Double wall construction; 18 gauge steel.
2. Leakproof seals.
3. Comply with EPA requirements for leakproof spills sump, and not less than 2 inches.
4. Dual vents.
5. Grounding wire connection.
6. Leveling feet.

F. Cabinet Doors:
1. Double wall construction; 18 gauge steel.
2. Single door for cabinet width of 24 inches or less. Double doors for cabinet width greater than 24 inches.
3. Door hinges to be secured to frame at cabinet side panels.
4. Self-closing doors shut and latch automatically when a fusible link melts at 165° F (74º C) under fire conditions. Self-closing mechanism is to allow obstruction-free access to contents. Coordinated self-closing for double doors.
5. Three-point self-latching doors.
6. Door Latch: Recessed with perimeter flange; paddle type pull latch release; lockable cylinder with keys; secondary security lock feature for padlock use.
7. Factory apply warning labels indicating type of contents and labels as may be required in compliance with Regulatory Requirements.

G. Shelves: Adjustable locations with adjustable mount brackets.
1. One adjustable shelf for each 18 inches of cabinet overall height.
2. Shelves designed with slight slope to rear allowing minor spills to drain from rear of shelf to bottom spills sump.
3. Polyethylene trays attached to galvanized steel shelves and a separate polyethylene liner for the bottom sump, resistant to aggressive chemicals. Liner is to be easily removed for cleaning of drips and leaks.
4. Provide extra polyethylene work tray that can be secured to cabinet top for a handy work surface.

H. Fabrication:
1. Fabricate components free of distortion and defects.
2. Corners and joints to be fully welded and finished prior to application of finish.

I. Finishes:
1. Epoxy powder coat finish on interior and exterior cabinet surfaces.

2.2 FLAMMABLES STORAGE CABINETS

A. Regulatory Requirements:
1. Comply with approvals and requirements of FM, UL, OSHA, NFPA 1, NFPA 30, ICC I-CODE IFC, EPA, and authorities having jurisdiction.

B. Manufacturers:

~~Architect, Michael Holborn provide list of mfr's (Durham, Global, Justrite, Labconco) for the Hoke HS 2023 project (Flammable Storage Cabinets) Modify as needed per your design.~~

1. Durham Manufacturing.
2. Global Industrial.
3. Justrite.
4. Labconco.

5. Substitutions: Section 01 60 00 - Product Requirements.

C. Basis of Design: Justrite - Sure-Grip EX Safety Storage Cabinet.

~~Architect, Flammable Storage Cabinets data added per Justrite, Sure-Grip EX - 893020 (44Hx43Wx18D) BOD data from Michael Holborn for Hoke HS 02209.000, 2023. Modify as needed per your design.~~

D. Flammable Storage Cabinet:
1. Size and Capacity:
a. 65 H x 24 W x 18 D inches. 22 gallons (83 L) capacity.
~~b. 44 H x 43 W x 18 D inches. 30 gallons (114 L) capacity.~~
2. Color: Yellow.
3. Double wall construction; 18 gauge steel.
4. Leakproof seals.
5. Comply with EPA requirements for leakproof spills sump, and not less than 2 inches.
6. Dual vents with flame arresters.
7. Grounding wire connection.
8. Leveling feet.

E. Cabinet Doors:
1. Double wall construction; 18 gauge steel.
2. Single door for cabinet width of 24 inches or less. Double doors for cabinet width greater than 24 inches.
3. Door hinges to be secured to frame at cabinet side panels.
4. Self-closing doors shut and latch automatically when a fusible link melts at 165° F (74º C) under fire conditions. Self-closing mechanism is to allow obstruction-free access to contents. Coordinated self-closing for double doors.
5. Three-point self-latching doors.
6. Door Latch: Recessed with perimeter flange; paddle type pull latch release; lockable cylinder with keys; secondary security lock feature for padlock use.
7. Factory apply warning labels indicating type of contents and labels as may be required in compliance with Regulatory Requirements.

F. Shelves: Adjustable locations with adjustable mount brackets.
1. One adjustable shelf for each 18 inches of cabinet overall height.
2. Shelves designed with slight slope to rear allowing minor spills to drain from rear of shelf to bottom spills sump.
3. Galvanized steel shelves.

G. Fabrication:
1. Fabricate components free of distortion and defects.
2. Corners and joints to be fully welded and finished prior to application of finish.

H. Finishes:
1. Epoxy powder coat finish on interior and exterior cabinet surfaces.

2.3 LABORATORY REFRIGERATION UNITS

~~Architect, for Lab Refrigeration Units, Michael Holborn provided the following requirements, mfr's and BOD's for Hoke HS 02209.000, 2023: Liebherr - LCexv 4010, Labcold - RLFF13248, and Thermo Scientific - 10FCEETSA. Modify as needed per your design.~~

A. Manufacturers:
1. Labcold.
2. Liebherr.
3. Thermo Scientific.

4. Substitutions: Section 01 60 00 - Product Requirements.

B. Refrigerator/Freezer Units.
1. Basis of Design:
a. Liebherr - LCexv 4010.
~~b. Labcold - RLFF13248.~~
~~c. Thermo Scientific - 10FCEETSA.~~
2. Vertical standing unit with lockable self-closing doors to each refrigerator and freezer compartments.
3. Spark-free interior compartments.
4. Volume Capacity:
a. Refrigerator Capacity: Minimum 200 L (7.0 cu ft).
b. Freezer Capacity: Minimum 50 L (1.76 cu ft).
5. Locations: As indicated on Drawings.

2.4 ACCESSORIES

A. Goggles Storage Cabinet:
1. Basis of Design: Sellstrom - S90494 Germicidal Cabinet.
2. Germicidal goggles and safety glasses sanitizing cabinet.
3. Temperature Range: 0 to 40 degrees C. Maximum relative humidity 80 percent for temperatures up to 31 degrees C, decreasing linearly to 50 percent relative humidity at 40 degrees C.
4. Listed UL (DIR).
5. Electrical: 120V, 60hz; integrated 10 amp fuse protection against electrical overload.
6. Controller: Automatic 5 minute timer control.
7. Cabinet: 22 gauge steel; surface mounted type; white baked enamel.
8. Goggle Racks: 8 shelf racks; 0.187 steel wire; white baked enamel.
9. Capacity: 40 googles.
10. Lock: Stainless steel; vandal-resistant; keyed to laboratory casework master key.

B. Fire Blanket and Cabinet:
1. Basis of Design:
a. Larsen - FB 1016 Series, standard cabinet (16W x 10H x 8D inches).
~~b. Larsen - FB 68-6 Series, vertical cabinet with roller (6.5W x 68H x 4D inches).~~
2. Cabinet: 22 gauge steel; surface mounted type; red baked enamel.
3. Blanket: 62 x 80 inches; wool and complying with 16 CFR 1610.

C. Wall Hooks: Wall mounted upper and lower pronged hook for lab coats and other articles.
1. Basis of Design: Spectrum Plastics, Ltd. - Toughook.
2. Coordination: Provide concealed solid blocking at wall locations for mounting hooks.
3. Material: Molded nylon-plastic; vandal resistant; unbreakable.
4. Size and Shape: Curved design with hook at top and at bottom.
a. 16W x 120H x 32D millimeters (0.63W x 4.73H x 1.25D inches).
~~b. 19W x 136H x 35D millimeters (0.75W x 5.35H x 1.38D inches).~~
5. Mounting: Each hook to be wall mounted with 2 screws through screw holes formed during manufacturing process. Holes to be countersunk for recessing screw heads. Provide stainless steel screws of length required to securely anchor hoods through substrate and into structure or blocking behind substrate.
6. Color: To be selected by Architect from manufacturer's full range.

D. 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.

~~6.~~5.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.

B. Verify that field measurements are as required.

C. Verify that surfaces and conditions are ready to accept the Work of this Section.

D. Examine products to be installed for damage and other conditions detrimental to completion of the Work.

E. Proceed with installation only after unsatisfactory 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.

3.3 INSTALLATION

A. Section 01 73 00 - Execution: Related to installation of Work.

B. Install equipment in compliance with the design requirements, regulatory requirements, and manufacturer's recommendations.

C. Install equipment plumb and level.

D. Anchor equipment securely in place.

E. For equipment requires utilities, alarms, or grounding connections, apply connections securely.

3.4 ADJUSTING

A. Section 01 73 00 - Execution: Starting, testing, adjusting, and balancing.

B. Adjust operating components to smooth operation without binding.

3.5 CLEANING

A. Section 01 73 00 - Execution and Section 01 77 00 - Closeout Procedures.

B. Clean installed Work in accordance with manufacturer’s recommendations including cleaning procedures and materials.

3.6 PROTECTION OF INSTALLED CONSTRUCTION

A. Section 01 73 00 - Execution: Protecting installed construction.

B. Protect installed construction from damage and unauthorized tampering.

3.7 DEMONSTRATION AND TRAINING

A. Section 01 79 00 - Demonstration and Training: Provide demonstration and training to Owner regarding operation and maintenance of the Work of this Section.

END OF SECTION

SECTION 11 66 43

INTERIOR SCOREBOARDS

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: Interior type electronic scoreboards including control center and other accessories for complete functional installation. Equipment to be designed for managing and displaying information for the following sports:
   1. Basketball.
   2. Volleyball.

B. Related Requirements:
   1. Division 26 - Electrical, for electrical related work.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):
   1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.

B. Federal Communications Commission (FCC):
   1. Part 15 of FCC Rules and Regulations.

C. National Electrical Code (NEC).

D. Underwriters Laboratories Inc. (UL):
   1. UL and C-UL Standard for Electric Signs.

1.3 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures.

B. Product Data: Data for scoreboards, controls, and accessories shall include descriptions of control functions.

C. Shop Drawings: Installation drawings, face layout, dimensions, construction, electrical wiring diagrams, and method of anchorage.

D. Samples: For each component requiring color selection, provide to the Architect samples indicating the manufacturer's full range of colors, textures, and finishes for selection.

E. Warranty(s) sample.

F. Manufacturer's installation instructions.

1.4 QUALITY ASSURANCE

A. Source Limitation: All components including scoreboard, control center, control cable, and other accessories and installation hardware shall be products of a single manufacturer.

B. Manufacturer Qualifications: Company specializing in manufacturing electronic scoreboards with minimum ten (10) years successful world-wide experience.

C. Scoreboards and other electrical components shall be certified for use in United States and Canada by Underwriter Laboratories, (UL), Inc. and shall bear either UL or C-UL label.

D. Scoreboards and other electrical components shall be electrically grounded in accordance with National Electrical Code (NEC), Article 600.

1.5 WARRANTY

A. Section 01 77 00 - Closeout Procedures: Product warranties.

B. Provide manufacturer's warranty covering defects in materials and workmanship.
   1. Scoreboards, scoring tables, marquees, message centers, video boards** and Stadium Pro loudspeaker enclosures are guaranteed for a period of five (5) years from the date of invoice against defects in workmanship or materials. (**Excluded: Video Boards 8815, 8825, 8835, and 8845.)
   2. Wireless components, portable scoreboards and solar power kit carry a two (2) year guarantee from date of invoice. Hand-held controls and switches carry a one (1) year guarantee from date of invoice. The Stadium Pro loudspeaker front printed scrim is guaranteed for one (1) year from the date of invoice. Video Board Models 8815, 8825, 8835, and 8845 are guaranteed for one (1) year from date of invoice, unless additional years of warranty is purchased. For products supplied by third-party suppliers (i.e. cameras, computers, computer monitors, radar guns, loudspeakers, amplifiers, and associated electronics), Purchaser agrees to accept the third-party manufacturer's warranty, if any, in lieu of any warranty from Nevco.
   3. Lifetime telephone support.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:
   1. Nevco, Inc.
   2. Daktronics, Inc.
   3. Electro-Mech Scoreboard Company.
   4. Fair-Play Corporation.

B. Basis of Design: Nevco, Inc. - Model 2710Series.

2.2 SCOREBOARDS

A. Type: Interior, multi-purpose basketball/volleyball electronic scoreboard with two integral horns, changeable captions, LED displays for time, scores, period, number of player fouling with personal fouls, team fouls, bonus and double bonus indicators, and next possession arrows; Model 2710 (base) as manufactured by Nevco Inc. Rear-lit (RL) caption plates, scoreboard shall be capable of in-the-field retrofit. Only LED lighting shall be used for rear-lit captions, incandescent lighting excluded. No captions shall be applied directly to the face of the scoreboard. All caption plates will be changeable and made of polyvinylchloride with vinyl lettering applied.
   1. Size: 8 feet long x 5 feet high x 8 inches deep
   2. Approximate hanging weight: 94 pounds.
   3. Captions:
      a. 6 inches high:
         1) Basic: "Home", "Guests", and "Period".
         2) Basketball: "Fouls" and "Player".
   4. LED displays:
      a. Timing: Super Bright Red 13 inches high digits with lit colon.
      b. Team scores: Super Bright Amber 13 inches high digits.
      c. Period: Super Bright Amber 9 inches high digits.
      d. Player number with personal fouls, game, and weight: Super Bright Red 9 inches high digits.
      e. Team fouls, games won, and match: Super Bright Amber 9 inches high digits.

f. Next possession: Super Bright Amber arrow for each team.
g. Include bonus and double bonus in the form of a 4 inch Super Bright Red LED "B".

5. Rear-lit captions (when specified) shall require zero maintenance.
6. Suspension mounting attachments will be included.
7. Power Requirement: All options included: 126 Watts, MAX, 100-240 Volts AC w/Power Factor Correction.

2.3 ACCESSORIES/OPTIONS

A. Provide each scoreboard or accessory with control cable of length required. Electrical junction boxes, conduits, mounting hardware, and other accessories as required for installation are to be provided by others.

B. Provide rear-lit caption plate option. Specify (RL). (Model Example: 27xx-RL).

C. Additional accessories include but are not limited to the following:
1. Nevco Inc Shot Clocks / End of Period (EOP) system. (TWO REQUIRED)

2.4 CONTROL CENTER

A. MPCW - Universal wireless version of MPC Control Center with receiver unit mounted at scoreboard.

B. Type: Wireless, microprocessor based, operator's control center with receiver unit mounted at scoreboard and designed to operate different models of scoreboard by interchange of keyboard overlay; Model MPCW as manufactured by Nevco Inc. Console will operate earlier scoreboards from Nevco Inc.
1. Unit shall comply with Part 15 of FCC Rules and regulations regarding interference.
2. Console: High impact, break-resistant gray plastic 11 x 9-1/2 x 4-1/8 inches (279 x 241 x 105 mm).
3. Features:
a. Control can be used to operate both wireless and wired scoreboards.
b. Power on-off switch.
c. Split and raised 40 key keyboards, internal beeper acknowledging each entry, and bookmark capabilities.
d. Keyboard overlays for scoreboard or accessory.
e. Remote hand-held main time switch with integral horn button.
f. Provide with LED displays, lithium cell battery backup to maintain scoreboard memory and time of day, self test mode, power on-off switch, alternate time control, and multiple scoreboard operation.
g. Timer features: Time of day display, multiple time out timers with warning, interval horn, up-count auto stop with horn, and 1/10th second display during last minute.
h. Dimmer control for scoreboard.
4. Receiver: Sturdy impact resistant construction, 6 x 4 x 1.5 inches (152 x 102 x 38 mm) with 4 inch (102 mm) antenna and mounted at scoreboard.
5. Maximum range: 1,000 feet (305 m) from control center to receiver.
6. Receiver shall require no additional source of power or separate control cable.
7. Power adapters: Provide for each control center.
a. Input: 120 volts, 0.4 amps, 50/60 Hz.
b. Output: 9 volts, 1.67 amps, 15 watts.
8. Provide option of battery supply for control operation if utility power not available.
9. Provide carrying case for control center and hand-held switch; Model CC-3 as manufactured by Nevco Inc.
a. Size: 18-1/2 x 14-1/2 x 6 inches (470 x 368 x 152 mm).

b. Construction: Double wall, high density black polyethylene with padded interior, mechanical latches, and hinges.

2.5 MATERIALS

A. Aluminum face and perimeter frame: Fabricated from 0.050 inch minimum thickness, ASTM B221 aluminum sheet.

B. Finish: Acrylic polyurethane paint. Color to be selected by Architect from manufacturer's full range of colors.

C. Electronics: Low voltage, solid state, 2-wire cable, multiplex system, quartz crystal controlled.

D. Provide fiber optic communication interface to reduce threat of damage from electrical storms.

E. LED (light emitting diode) units: Seven-bar, segmented digits in protective aluminum cover, rated typical life 100,000 hours, and designed to provide excellent visibility from all angles and sides.

F. Provide location specific universal power cord with plug for world-wide installation.

G. Control cable where required shall be UL listed, 2-wire, type RG-58/U, coaxial cable, 1/4 inch diameter.

H. Junction boxes where required: Sheet metal box and cover, 4-1/2 x 2-1/8 x 2-1/8 inches minimum. complying with NEMA standards.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.

B. Verify exact scoreboard and control center quantities and locations.

C. Verify and coordinate equipment electrical requirements to ensure proper power source, conduit, wiring, boxes, points of connectivity are provided and in locations required. Prior to installation, verify type and location of power supply.

D. Verify that power supplies are as required and that points of connection are located where required.

E. Verify that field measurements are as required.

F. Verify that surfaces and conditions are ready to accept the work of this Section.

G. Verify that building roof structure has been designed for loads of suspended scoreboards.

H. Examine products to be installed for damage and other conditions detrimental to completion of the Work.

I. Proceed with installation only after unsatisfactory 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. Coordinate requirements for electrical power, wall blocking, auxiliary framing and supports, suspension cables, and other components to be provided under other Specification Sections to ensure adequate provisions are made for complete, functional installation of scoreboards.

3.3 INSTALLATION

A. Section 01 73 00 - Execution: Related to installation of Work.

B. Install the work in compliance with the design requirements, applicable codes, manufacturer's recommendations, and the contract documents.

C. Before installation, field test scoreboards and accessories for operating functions. Ensure that scoreboards accurately perform all operations. Correct deficiencies.

D. Rigidly mount scoreboards and accessories level and plumb with brackets and fasteners.

E. Clean exposed surfaces.

F. Protect scoreboards and finishes from other construction operations.

3.4 ADJUSTING

A. Section 01 73 00 - Execution: Starting, testing, adjusting, and balancing.

B. Test and adjust system operation to function as required.

3.5 DEMONSTRATING 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 24 13

ROLLER WINDOW SHADES

PART 1 GENERAL

1.1 SUMMARY

A. Section includes roller window shades:
   1. Manually operating shades.
   2. Electric motorized operating shades.

B. Related Requirements:
   1. Section 06 10 53 - Miscellaneous Rough Carpentry: Wood blocking and grounds for mounting roller shades and accessories.
   2. Section 08 41 13 - Aluminum-Framed Entrances and Storefronts.
   3. Section 09 21 16 - Gypsum Board Assemblies: Coordination with gypsum board assemblies for installation of shade pockets, closures, and related accessories.
   4. Section 09 51 13 - Acoustical Panel Ceilings: Coordination with acoustical ceiling systems for installation of shade pockets, closures, and related accessories.
   5. Division 26 - Electrical: Coordination with electric service for motor controls.

1.2 REFERENCES

A. ASTM International (ASTM):
   1. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi; 2015, Editorial Changes 2021.

B. National Fire Protection Association (NFPA):
   1. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
   2. NFPA 701 - Fire Tests for Flame-Resistant Textiles and Films; 2023, Errata 2023.

1.3 PRE-INSTALLATION MEETINGS

A. Section 01 30 00 - Administrative Requirements: Pre-installation meeting.

B. Convene minimum one week prior to commencing work of this Section. Review the work requirements, project conditions, sequencing, application procedures, quality control, testing and inspection and production schedule.

1.4 COORDINATION

A. Section 01 30 00 - Administrative Requirements: Requirements for coordination.

B. Coordinate with electrical contractor for appropriate location for power outlets as required by manufacturer’s equipment and installation requirements.

C. Coordinate with requirements of roller shade installer/dealer to ensure that no inaccessible areas are constructed.

1.5 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Styles, material descriptions, dimensions of individual components, profiles, features, finishes and operating instructions.

3. Storage and handling requirements and recommendations.
4. Mounting details and installation methods.
5. Typical wiring diagrams.

C. Shop Drawings: Plans, elevations, sections, product details, installation details, operational clearances, wiring diagrams and relationship to adjacent work.
1. Include wiring diagram.
2. Include Shade Schedule indicating size, location, width, and keys to details.
3. Window Treatment Schedule: For all roller shades. Use same room designations as indicated on the Drawings and include opening sizes and key to typical mounting details.

D. Samples for Initial Selection: For each finish product specified, submit two sets of shade material options and aluminum finish color samples representing manufacturer's full range of available colors and patterns. Include sample of shade material indicating fully fabricated bottom and side edges.

E. Samples for Verification: From the Architect’s initial selections, prepare and submit two samples for each selection of metal finishes, shade system components, unassembled, demonstrating compliance with specified requirements. Include shade material selection samples, 12 x 12 inches with face of material marked to indicate interior faces.

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

1.6 CLOSEOUT SUBMITTALS

A. Section 01 78 23 - Operation and Maintenance Data.

B. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of shop drawings.

C. Manufacturer's Instructions and Maintenance Data: Methods for maintaining roller shades, precautions and recommendations regarding cleaning methods, cleaning materials and stain removal methods, instructions for operating hardware and controls.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this Section, with a minimum of five (5) years documented experience in manufacturing products specified in this Section.

B. Obtain roller shades through one source from a single manufacturer.

C. Installer Qualifications: Installer trained and certified by the manufacturer. Company specializing in performing the type of work required in this Section, with a minimum of five (5) years documented experience.

D. Fire-Test-Response Characteristics: Passes NFPA 701 small and large-scale vertical burn. Materials tested shall be identical to products proposed for use.

E. Electrical Components: NFPA Article 100 listed and labeled by either UL or ETL or other testing agency acceptable to authorities having jurisdiction, marked for intended use, and tested as a system. Individual testing of components will not be acceptable in lieu of system testing.

F. Fungal Resistance: No growth when tested according to ASTM G21.

1.8 MOCK-UP

A. Section 01 40 00 - Quality Requirements: Mock-up requirements.

B. Provide a mock-up of one roller shade assembly for evaluation of mounting, appearance, and accessories.
   1. Locate mock-up at location designated by Architect.
   2. Do not proceed with remaining work until, mock-up is accepted by Architect.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.

B. Deliver shades in factory-labeled packages, marked with manufacturer and product name, fire-test-response characteristics, and location of installation using same room designations indicated on Drawings and in the submittal Shade Schedule.

1.10 PROJECT CONDITIONS

A. Section 01 60 00 - Product Requirements: Requirements before, during and after installation of Work.

B. Environmental Limitations: Install roller shades after finish work including painting is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.11 WARRANTY

A. Section 01 77 00 - Closeout Procedures: Product warranties.

B. Roller Shade Hardware and Chain Warranty: Manufacturer's standard non-depreciating twenty-five (25) year warranty.

C. Roller Shade Motors and Motor Control Systems: Manufacturer's standard non-depreciating five (5) year warranty.

1.12 SPARE PARTS AND MAINTENANCE PRODUCTS

A. Section 01 60 00 - Product Requirements: Extra materials, spare parts, and maintenance products.
   1. Four (4) additional shade assemblies for the following common Storefront types as indicated in Drawings: SF1, SF14, SF24.
   2. One (1) additional shade assemblies for the following common Storefront types as indicated in Drawings: SF29, SF30.
   3. Two (2) of each type of control cord, control chain, and wand.

PART 2 PRODUCTS

2.1 ROLLER SHADES

A. Manufacturers:
   1. Draper, Inc.
   2. Hunter Douglas Corporation.
   3. Lutron Electronics Company, Inc.
   4. MechoShade Systems, Inc.
   5. TimberBlindMetroShade.

B. Basis of Design:
   1. Draper, Inc

2.2 MANUAL OPERATING SHADES

A. Mounting:
   1. As indicated on Drawings.
   2. Provide factory finished headbox with removable fascia to conceal roller(s) and operating mechanisms from view at all sides.

B. Width and Length:
   1. Shades are to cover entire wall opening unless indicated otherwise on Drawings.

C. Colors: Colors for fabrics and components exposed to view unless indicated otherwise on Drawings.
   1. As indicated on Drawings.

D. Single Roller Type.
   1. Fabric Material Type:
      a. As indicated on the drawings.
   2. Locations:
      a. As indicated on Drawings.

E. Fabric Material Types:
   1. Solar (glare) Shade Material:
      a. As selected by Architect from manufacturer’s full range.

F. Clutch Operator: Manufacturer's standard material and design integrated with bracket/brake assembly.
   1. Provide a permanently lubricated brake assembly mounted on an oil-impregnated hub with wrapped spring clutch.
   2. Brake must withstand minimum pull force of 50 pounds (22.7 kg) in the stopped position.
   3. Mount clutch/brake assembly on the support brackets, fully independent of the roller tube components.

G. Drive Chain: Continuous loop stainless steel beaded ball chain, 95 pound (43 kg) minimum breaking strength. Provide upper and lower limit stops.
   1. Chain Retainer: Chain tensioning device complying with WCMA A100.1.

2.3 ELECTRIC MOTORIZED OPERATING SHADES

A. Mounting:
   1. As indicated on Drawings.
   2. Provide factory finished headbox with removable fascia to conceal roller(s) and operating mechanisms from view at all sides.
   3. Fabric Retention System: Manufacturer's system of side channels with fabric retainer and light seal, and shade fabric fabricated with steel stays.

B. Width and Length:
   1. Shades are to cover entire wall opening unless indicated otherwise on Drawings.

C. Colors: Colors for fabrics and components exposed to view unless indicated otherwise on Drawings.
   1. As indicated on Drawings.

D. Single Roller Type.
   1. Material Type:
      a. Blackout material.
   2. Locations:
      a. Gymnasium.

E. Fabric Material Types:
1. Blackout Material: Opaque.

F. Controls:
1. Provide single, 3-position, keyed switch control operation for raising and lowering of shades in synchronized level of motion and at variable stopping locations between fully open and fully closed positions. Motor operation is to automatically disengage when shades are in fully open and fully closed position as to not damage shade and roller and motorized drive mechanism. Install keyed switch control device at location as indicated on Drawings or as designated by Architect.
2. Provide wireless hand-held remote control device for each room in which motorized shades are installed. Furnish with each remote device, a wall-mountable device holder for installation by Owner.

G. Motorized Shade Hardware and Shade Brackets:
1. Provide shade hardware constructed of minimum 1/8 inch thick plated steel, or heavier, thicker, as required to support 150 percent of the full weight of each shade.
2. Provide shade hardware system that allows for field adjustment of motor or replacement of any operable hardware component without requiring removal of brackets, regardless of mounting position (inside, or outside mount).

H. Shade Motor Drive System:
1. Shade Motors:
a. Tubular motors with built-in reversible capacitor operating at 110v AC (60hz), single phase, temperature Class B, thermally protected, totally enclosed, maintenance free with line voltage power supply equipped with locking disconnect plug assembly furnished with each motor.
b. Provide for controlled operation for raising and lowering of shades in synchronized level of motion and at variable stopping locations between fully open and fully closed positions. Motor operation is to automatically disengage when shades are in fully open and fully closed position as to not damage shade and roller and motorized drive mechanism.
c. Conceal motors inside shade roller tube.
d. Maximum current draw for each shade motor of 2.3 amps.
e. Use motors rated at the same nominal speed for all shades in the same room.
2. Total hanging weight of shade band shall not exceed 80 percent of the rated lifting capacity of the shade motor and tube assembly.

2.4 SHADE BAND

A. Shade Bands: Construction of shade band includes the fabric, the hem weight, hem-pocket, shade roller tube, and the attachment of the shade band to the roller tube. Sewn hems and open hem pockets are not acceptable.
1. Hem Pockets and Hem Weights: Fabric hem pocket with RF-welded seams (including welded ends) and concealed hem weights. Hem weights shall be of appropriate size and weight for shade band. Hem weight shall be continuous inside a sealed hem pocket. Hem pocket construction and hem weights shall be similar, for all shades within one room.
2. Shade Band and Shade Roller Attachment:
a. Use extruded aluminum shade roller tube of a diameter and wall thickness required to support shade fabric without excessive deflection.
b. Provide for positive mechanical engagement with drive / brake mechanism.
c. Provide for positive mechanical attachment of shade band to roller tube; shade band shall be made removable / replaceable with a "snap-on" "snap-off" spline mounting, without having to remove shade roller from shade brackets.

d. Mounting spline shall not require use of adhesives, adhesive tapes, staples, and/or rivets.
e. Any method of attaching shade band to roller tube that requires the use of adhesive, adhesive tapes, staples, and/or rivets are not acceptable.

2.5 SHADE FABRICATION

A. Fabricate units to completely fill existing openings from head to sill and jamb-to-jamb, unless specifically indicated otherwise.

B. Provide battens in standard shades as required to assure proper tracking and uniform rolling of the shadebands. Contractor shall be responsible for assuring the width-to-height (W:H) ratios shall not exceed manufacturer's standards or, in absence of such standards, shall be responsible for establishing appropriate standards to assure proper tracking and rolling of the shadecloth within specified standards. Battens shall be roll-formed stainless steel or tempered steel, as required.

C. For railroaded shadebands, provide seams in railroaded multi-width shadebands as required to meet size requirements and in accordance with seam alignment as acceptable to Architect. Seams shall be properly located. Furnish battens in place of plain seams when the width, height, or weight of the shade exceeds manufacturer's standards. In absence of such standards, ensure proper use of seams or battens as required to, and assure the proper tracking of the railroaded multi-width shadebands.

D. Provide battens for railroaded shades when width-to-height (W:H) ratios meet or exceed manufacturer's standards. In absence of manufacturer's standards, be responsible for proper use and placement of battens to assure proper tracking and roll of shadebands.

E. Blackout shadebands, when used inside channels, shall have horizontally mounted, roll-formed stainless steel or tempered-steel battens not more than 3 feet on center extending fully into the side channels. Battens shall be concealed in an integrally colored fabric to match the inside and outside colors of the shadeband, in accordance with manufacturer's published standards for spacing and requirements.
1. Battens shall be roll formed of stainless steel or tempered steel and concave to match the contour of the roller tube.
2. Batten pockets shall be self-colored fabric front and back RF welded into the shadecloth. A self-color opaque liner shall be provided front and back to eliminate any see through of the batten pocket that shall not exceed 1-1/2 inches high and be totally opaque. A see-through moiré effect, which occurs with multiple layers of transparent fabrics, shall not be acceptable.

2.6 COMPONENTS

A. Access and Material Requirements:
1. Provide shade hardware allowing for the removal of shade roller tube from brackets without removing hardware from opening and without requiring end or center supports to be removed.
2. Provide shade hardware that allows for removal and re-mounting of the shade bands without having to remove the shade tube, drive, or operating support brackets.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.

B. Verify field measurements are as shown on shop drawings.

C. Examine substrates for conditions detrimental to installation of the Work. Proceed with installation only after unsatisfactory conditions have been corrected.

D. Examine products to be installed for damage and other conditions detrimental to completion of the Work. Proceed with installation only after unsatisfactory conditions have been corrected.

E. Verify that required electrical service is available, in proper location, and ready for installation of the work of this Section.

3.2 PREPARATION

A. Section 01 73 00 - Execution: Prepare field conditions and existing construction for installation of work of this Section. Prepare materials to be installed and equipment used during installation.

B. Clean surfaces thoroughly prior to installation.

C. Prepare surfaces for installation of the work.

3.3 INSTALLATION

A. Section 01 73 00 - Execution: Related to installation of Work.

B. Install roller shades level, plumb, square, and true according to components in accordance with manufacturer's written instructions and located so shade band is not closer than 2 inches to interior face of glass. Allow proper clearances for window operation hardware.

C. Motorized Operating Shades:

1. Turn-Key Single-Source Responsibility: To control the responsibility for performance of motorized roller shade systems, assign the design, engineering, and installation of motorized roller shade systems, motors, controls, and low voltage electrical control wiring specified in this Section to a single manufacturer and their authorized installer/dealer. The Architect will not produce a set of electrical drawings for the installation of control wiring for the motors, or motor controllers of the motorized roller shades. Power wiring (line voltage) shall be provided by the roller shade installer/dealer, in accordance with the requirements provided by the manufacturer. Coordinate the following with the roller shade installer/dealer:
   a. Contractor shall provide power panels and circuits of sufficient size to accommodate roller shade manufacturer's requirements, as indicated on the mechanical and electrical drawings.
   b. Contractor shall coordinate with requirements of roller shade installer/dealer to ensure that no inaccessible areas are constructed.
   c. Roller shade installer/dealer shall run line voltage as dedicated home runs (of sufficient quantity, in sufficient capacity as required) terminating in junction boxes in locations designated by roller shade dealer.
   d. Roller shade installer/dealer shall provide and run all line voltage (from the terminating points) to the motor controllers, wire all roller shade motors to the motor controllers, and provide and run low voltage control wiring from motor controllers to switch/control locations indicated on Drawings or otherwise designated by the Architect. All above-ceiling and concealed wiring shall be plenum-rated, or installed in conduit, as required by the electrical code having jurisdiction.
   e. Contractor shall provide conduit with pull wire in all areas, which might not be accessible to roller shade contractor due to building design, equipment location or schedule.

2. Ensure that all wiring is concealed in a tight, uniform installation. Coordinate with electrical contractor for appropriate location for power outlets as required by manufacturer’s equipment and installation requirements.

3.4 ADJUSTING

A. Section 01 73 00 - Execution: Starting, testing, adjusting, and balancing.

B. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.5 CLEANING

A. Section 01 73 00 - Execution and Section 01 77 00 - Closeout Procedures: Related to cleaning.

B. Clean roller shade surfaces after installation, according to manufacturer's written instructions.

3.6 PROTECTION OF INSTALLED CONSTRUCTION

A. Section 01 73 00 - Execution: Protecting installed construction.

B. Protect installed work from damage.

3.7 DEMONSTRATION AND TRAINING

A. Section 01 79 00 – Demonstration and Training.

B. Provide demonstration and train to Owner's maintenance personnel to adjust, operate and maintain roller shade systems.

END OF SECTION

SECTION 32 92 00
LAWNS AND GRASSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the Contract Documents apply to the work of this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Fine grading and preparing lawn areas (including courtyards)
2. Topsoil Placement
3. Soil amendments
4. Fertilizers
5. Seeding
6. Hydroseeding
7. Sprigging

1.3 DEFINITIONS

A. Finish Grade: Elevation of finished surface of planting soil.

B. Lawns: All areas disturbed by construction and not otherwise covered by paving, buildings or other structures. Excluding athletic fields. (See Specification 02921)

1.4 SUBMITTALS

A. Certification by product manufacturer that the following products supplied comply with requirements:

1. Grass Seed

a) Certification of grass seed from seed vendor for each grass-seed mixture stating the botanical and common name and percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.

b) Blue tag certification for each bag of seed.

B. Installers qualifications

1. Provide a list, with references, of the past three projects of a similar magnitude.

C. Topsoil Amendment Plan.

1. Provide copy of topsoil testing report.

2. List of amendments proposed for topsoil, including application rates.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer, who has successfully completed lawn establishment projects similar in size and complexity to this project. The installer's primary business (defined as a minimum of 60% of total billings) shall be establishment of lawns.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Seed: Deliver seed in original sealed, labeled, and undamaged containers.

1.7 COORDINATION AND SCHEDULING

A. Planting Season: Sow lawn seed during normal planting seasons for type of lawn work required.
   1. Spring Planting Season:
      a) General Lawn Areas- Feb. 15- May 1
      b) Low-Maintenance Slope (3:1 or less)- Feb. 15- May 1
      c) Low-Maintenance Slope (Steeper than 3:1)- Feb. 15- May 1
   2. Fall Planting Season:
      a) General Lawn Areas- Aug. 15- Oct. 15
      b) Low-Maintenance Slope (3:1 or less)- Aug. 15- Oct. 15
      c) Low-Maintenance Slope (Steeper than 3:1)- Aug. 15- Oct. 15

B. Weather Limitations: Proceed with planting only when existing and forecast weather conditions are suitable for work.

C. Lawn Seeding or Sprigging Schedule
   1. Refer to the drawings for early seeding requirements for specified lawn areas.
   2. If job completion schedule does not allow seeding within a normal planting season, provide interim temporary seeding necessary to stabilize site. Complete permanent seeding during the next planting season.

1.8 LIMITS OF SEEDING

A. Spread topsoil and seed lawn areas. Hydroseed all slopes greater than 3:1.

1.9 PAYMENT PROCEDURES FOR LAWNS AND GRASSES

A. Establish a line item in the Schedule of Values for Lawn Maintenance. This line item shall represent a minimum of thirty percent (30%) of the total value of the seeding for the project.

B. Lawn maintenance will be paid on a monthly basis, following the satisfactory maintenance of the lawns.

PART 2 – PRODUCTS

2.1 TOPSOIL

A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of 4 percent organic material content; free of stones 1" or larger in any dimension and other extraneous materials harmful to plant growth.

1. Topsoil Source: Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.

a) Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches (100 mm) deep; do not obtain from agricultural land, bogs or marshes.

B. Have topsoil tested by a certified soil testing laboratory to determine the type and quantity of soil amendments necessary. Add amendments to topsoil as necessary to meet these requirements.

2.2 INORGANIC SOIL AMENDMENTS

A. If the topsoil analysis indicates the need for inorganic soil amendments, the following standards apply:

B. Lime: ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:

1. Class: Class O, with a minimum 95 percent passing through No. 8 (2.36-mm) sieve and a minimum 55 percent passing through No. 60 (0.25-mm) sieve.

2. Provide lime in form of dolomitic limestone.

C. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum 99 percent passing through No. 6 (3.35-mm) sieve and a maximum 10 percent passing through No. 40 (0.425-mm) sieve.

D. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.

E. Aluminum Sulfate: Commercial grade, unadulterated.

F. Perlite: Horticultural perlite, soil amendment grade.

G. Agricultural Gypsum: Finely ground, containing a minimum of 90 percent calcium sulfate.

H. Sand: Clean, washed, natural or manufactured, free of toxic materials.

I. Diatomaceous Earth: Calcined, diatomaceous earth, 90 percent silica, with approximately 140 percent water absorption capacity by weight.

J. Zeolites: Mineral clinoptilolite with at least 60 percent water absorption by weight.

2.3 ORGANIC SOIL AMENDMENTS

A. If the topsoil analysis indicates the need for organic soil amendments, the following standards apply:

B. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch (19-mm) sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:

1. Organic Matter Content: 50 percent of dry weight.
2. Feedstock: Agricultural, food, or industrial residuals; biosolids; yard trimmings; or source-separated or compostable mixed solid waste.
3. Peat: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.
4. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
5. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

2.4 HERBICIDES

A. Selective Herbicides: EPA registered and approved, of type recommended by manufacturer for application.

2.5 FERTILIZER

A. Bonemeal: Commercial, raw or steamed, finely ground; a minimum of 4 percent nitrogen and 20 percent phosphoric acid.

B. Superphosphate: Commercial, phosphate mixture, soluble; a minimum of 20 percent available phosphoric acid.

C. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:

1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in topsoil analysis reports from a qualified soil-testing agency.
2. Minimum Composition: No less than 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.

2.6 SEED

A. Grass Seed: All grass seed must be fresh, clean, and dry.

B. Seed Species

1. General Lawn Areas

Proportion by Weight	Grass Species	Min. % Germination	Min. % Pure Seed	Max. % Weed Seed
10%	2 Types: Kentucky bluegrass (Poa pratensis).	80	85	0.50
90%	2 Types:Tall Fescue (Festuca arundinacea).	85	98	0.50

2. Low-Maintenance Slope (3:1 or less)-Refer to Erosion Control Requirements for location

Proportion by Weight	Grass Species	Min. % Germination	Min. % Pure Seed	Max. % Weed Seed
10%	Japanese Clover (Lespedeza striata).	85	85	0.50
20%	Chinese Lespedeza (Lespedeza cuneata).	85	98	0.50
70%	Tall Fescue (Festuca arundinacea).	85	85	0.50

3. Low-Maintenance Slope (Steeper than 3:1)-Refer to Erosion Control Requirements for location

Proportion by Weight	Grass Species	Min. % Germination	Min. % Pure Seed	Max. % Weed Seed
10%	Japanese Clover (Lespedeza striata).	85	85	0.50
20%	Chinese Lespedeza (Lespedeza cuneata).	85	98	0.50
70%	Tall Fescue (Festuca arundinacea).	85	85	0.50

C. Turf Varieties shall be selected from the 2005 list of recommended Tall Fescue and Kentucky Bluegrass varieties, published by N. C. State University.

D. All seed shall bear an official “N. C. Certified Seed” label. Tags must be attached to each bag delivered on site.

2.7 MULCHES

A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.

B. Pine Straw: Fresh, dry and free from debris, pinecones, or soil. Slash Pine is preferred.

C. Peat Mulch: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.

D. Compost Mulch: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 1-inch (25-mm) sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:

1. Organic Matter Content: 50 percent of dry weight.

E. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.

2.8 EROSION-CONTROL MATERIALS

A. Erosion-Control Fiber Mesh: Biodegradable twisted jute or spun-coir mesh, a minimum of 0.92 lb/sq. yd. (0.5 kg/sq. m), with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches (150 mm) long.

2.9 SPRIGS

A. Sod Sprigs: Healthy living stems, rhizomes or stolons with a minimum of two nodes and attached roots free off soil, of the following turfgrass species shall be provided and installed within 48 hours of harvesting:

1. Turfgrass Species: Bermudagrass Celebration (Cynodon dactylon v. Celebration)

2. Anticipate School opening August 2026. Optimum window of sprigging is May 1st through July 15th

3. Sprigging at a rate of 1,000 bu/acre

4. Both Broadcast and Row Planting sprigging planting methods should be priced. Owner will decide on planting method with consultation from contractor

5. Irrigation should be scheduled and managed efficiently to ensure germination and establishment

6. Prior to planting sprigs, Phosphorus (0-48-0) should be applied at a rate of 2 lbs. per 1,000 sq. ft. to a depth of 4 to 6 inches.

7. Ronstar (Oxidiazon) pre emergence herbicide should be applied at 3 lbs. active ingredient per acre for control of crabgrass and goose grass within 3 days of post planting.

8. Sprigging Fertilizer applications and a “grow in program” should be established by the North Carolina State University Crop Science Department.

9. Sprigged fields should be monitored and treated for any pest and insects (mole cricket, army worm, fire ants, etc.) that will affect the sprigging establishment.

10. Mowing sprigged areas should begin in weeks 3 or 4 depending on growth rates

11. Mowing and other turf management will be the responsibility of the contractor until the sprigs have grown in achieving full overage and a playable surface.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to receive lawns and grass for compliance with requirements and for conditions affecting performance of the Work. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

C. Protect adjacent and adjoining areas from hydroseed overspray.

3.3 TOPSOIL PLACEMENT FOR LAWNS

A. Limit subgrade preparation to areas that will be planted in the immediate future.

B. Loosen subgrade to a minimum depth of 4 inches. Remove stones, sticks and roots larger than 2 inches in any dimension from subgrade, 1” in playing fields. Completely remove trash and other extraneous debris from subgrade.

C. Have topsoil tested by a certified soil testing laboratory to determine the type and quantity of soil amendments necessary.

D. Sift topsoil to remove stones and other objects larger than 1” in any dimension. Sift topsoil to remove stones and other objects larger than ½” in any dimension in all playing fields. Maximum object size for topsoil shall be achieved by sifting not by hand removal or raking following placement of topsoil.

E. Mix soil amendments and fertilizers with topsoil at rates required by soil testing. Delay mixing fertilizer if planting does not follow placing of planting soil within 4 days. Either mix soil before spreading or apply soil amendments on surface of spread topsoil and mix thoroughly into top 4 inches (100 mm) of topsoil before planting.

F. Mix lime with dry soil prior to mixing fertilizer.

G. Spread topsoil to a minimum depth of six inches (6”).

3.4 SEEDING LAWNS

A. Sow seed with a spreader or a seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph (8 km/h). Evenly distribute seed by sowing equal quantities in 2 directions at right angles to each other.

B. Do not use wet seed or seed that is moldy or otherwise damaged in transit or storage.

C. Sow seed at the following rates:

1. Seeding Rates:

a) General Lawn Areas- 200 lbs./acre.

b) Low-Maintenance Slope (3:1 or less)- 110 lbs./acre

c) Low-Maintenance Slope (Steeper than 3:1)- 140 lbs./acre

D. Rake seed lightly into top 1/4 inch of topsoil, roll lightly, and water with fine spray.

E. Hydroseed all slopes 3:1 or steeper.

F. Protect seeded areas 3:1 slope/grade or steeper against erosion by providing erosion-control blankets installed and stapled according to manufacturer's recommendations.

G. Protect seeded areas less than 3:1 slope/grade against erosion by spreading straw mulch after completion of seeding operations. Spread uniformly at a minimum rate of 2 tons per acre (45 kg per 100 sq. m) to form a continuous blanket 1-1/2 inches (38 mm) loose depth over seeded areas. Spread by hand, blower, or other suitable equipment.

1. Anchor straw mulch by crimping into topsoil by suitable mechanical equipment.

3.5 MAINTENANCE OF NEW LAWNS

A. Begin maintenance of lawns immediately after each area is planted and continue until acceptable lawn is established. Maintain seeded lawns until Substantial Completion. Maintain all grassed areas as necessary to ensure a satisfactory lawn is achieved at Substantial Completion.

B. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth lawn.

1. Replant bare areas with same materials as for lawns.

2. Replace disturbed mulch.

C. Watering: Provide and maintain temporary hoses, and lawn-watering equipment to convey water from a water source to keep lawns uniformly moist to a depth of 4 inches.

1. Provide a source of water for irrigation. Utilize temporary irrigation meters, a well or water trucks as necessary for the water source.

2. Water seeded areas as necessary to promote vigorous growth of grass but at the minimum rate of 1 inch per week.

3. Water sodded areas per the requirements of the grower. Maintain moist soil to a depth of at least four inches.

D. Mow lawns as soon as there is enough top growth to cut with mower set at indicated height. Repeat mowing as required to maintain indicated height without cutting more than 40 percent of the grass height (minimum of 3 mowings). Remove no more than 40 percent of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain following grass height:

1. Mow grass to a finished height of 2 to 3 inches high.

E. Apply pre-emergent herbicide to lawns areas. Apply 60 – 90 days after planting.

3.6 SATISFACTORY LAWN

A. Seeded lawns shall be considered satisfactory/acceptable provided requirements, including maintenance, have been met and a healthy, uniform, close stand of grass is established, free of weeds, bare spots exceeding 5 by 5 inches (125 by 125 mm), and surface irregularities.

B. Sodded lawns shall be considered satisfactory/acceptable provided requirements, including maintenance, have been met and a healthy, well-rooted, even-colored, viable lawn is established, free of weeds, open joints, bare areas exceeding 5 by 5 inches (125 by 125 mm), and surface irregularities.

C. Replant lawns that do not meet requirements and continue maintenance until lawns are satisfactory/acceptable.

D. Substantial Completion of the building and the remainder of the project may be achieved (pending prior Architect and Owner approval) before achieving a satisfactory/acceptable lawn. Continue to replant and maintain unsatisfactory/unacceptable lawn areas until acceptance is obtained. Warranties for lawns shall begin at the time of acceptance of the lawn.

3.7 CLEANUP AND PROTECTION

A. Promptly remove soil and debris created by lawn work from sidewalks and paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto surface of roads, walks, or other paved areas.

B. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades throughout maintenance period until lawn is established.

END OF SECTION 32 9200

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DEMOLITION NOTES

1. CONTRACTOR REPRESENT THAT THEY HAVE VISITED THE SITE AND UNDERSTANDS THAT DEMOLITIONS INCLUDES REMOVAL OF ALL EXISTING MATERIALS, SHOWN AND NOT SHOWN, REQUIRED TO PERFORM THE WORK.
2. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
3. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH WITH ALL APPLICABLE RULES AND REGULATIONS. CONTRACTOR SHALL SALVAGE ALL SIGNAGE, METERS, ETC. TO OWNER. COORDINATE WITH OWNER PRIOR TO DEMOLITION.
4. PHASE I EROSION CONTROL MEASURES NEED TO BE IN PLACE AND APPROVED BY INSPECTOR PRIOR TO ANY LAND DISTURBANCE ACTIVITIES INCLUDING CLEARING, GRUBBING, AND DEMOLITION. REFER TO EROSION CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
5. CLEAR AND GRUB AS NEEDED WITHIN CONSTRUCTION LIMITS PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS) FOLLOWING APPROVAL OF ENGINEER. BY SUBMITTING A BID, CONTRACTOR ACKNOWLEDGES THAT THE SITE HAS BEEN INVESTIGATED TO DETERMINE TYPE, SIZE AND QUANTITY OF CLEARING REQUIRED FOR CONSTRUCTION.
6. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR DETAIL.
7. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, NOTIFY ENGINEER IMMEDIATELY.
8. THE CONTRACTOR SHALL EMPLOY A QUALIFIED UTILITY LOCATOR SERVICE TO LOCATE ALL UNDERGROUND UTILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICAL, TELEPHONE, GAS, CABLE, FIBER OPTIC, 811) WITHIN THE LIMITS OF CONSTRUCTION.
9. VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
10. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
11. EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERTY WITH THE PROPOSED FINISHED GRADES (WETHER OR NOT INDICATED TO BE MODIFIED).
12. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. THE PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS, AS SHOWN ON FIRM MAP NUMBER 3720356700K DATED 04/15/2013.

DEMOLITION KEYNOTES

- A — TREE CLEARING
- B — REMOVE SOIL PATH
- C — REMOVE UTILITY STRUCTURE
- D — REROUTE EX IRRIGATION LINE AS NEEDED TO INSTALL ROADWAY

EXISTING CONDITIONS LEGEND

- EX. CONSTRUCTION LIMITS
- EX. STORM PIPE
- EX. FENCE
- EX. GAS LINE
- EX. POWER LINE
- EX. TELEPHONE LINE
- EX. WATER LINE
- EX. SANITARY SEWER FORCE MAIN
- EX. SANITARY SEWER LINE
- EX. CABLE TV LINE
- EX. FIBER OPTIC LINE
- EX. TREE LINE
- LIGHT POLE
- SITE BOLLARD
- UTILITY POLE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CLEANOUT (SANITARY OR STORM)
- DROP INLET
- FIRE HYDRANT
- WATER VALVE
- TELECOM BOX
- GROUND MOUNTED SIGN

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Construction Documents

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY
5410 TRINITY RD, SUITE 102
RALEIGH, NC 27607
OFFICE: 919.866.4935
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Lenoir County
EB Frink Middle School
405 North Charles Street
La Grange NC, 28511

ENERGY STAR PARTNER

1	04/17/2025	ADDENDUM 3

ISSUE DATE: 04/17/2025
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EXISTING CONDITIONS & DEMOLITION PLAN

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PROVIDE FENCING AS NECESSARY FOR THE SAFETY AND PROTECTION OF STAFF AND VISITORS

LIMITS OF DISTURBANCE:
42.00 AC

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

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2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY NCDEQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
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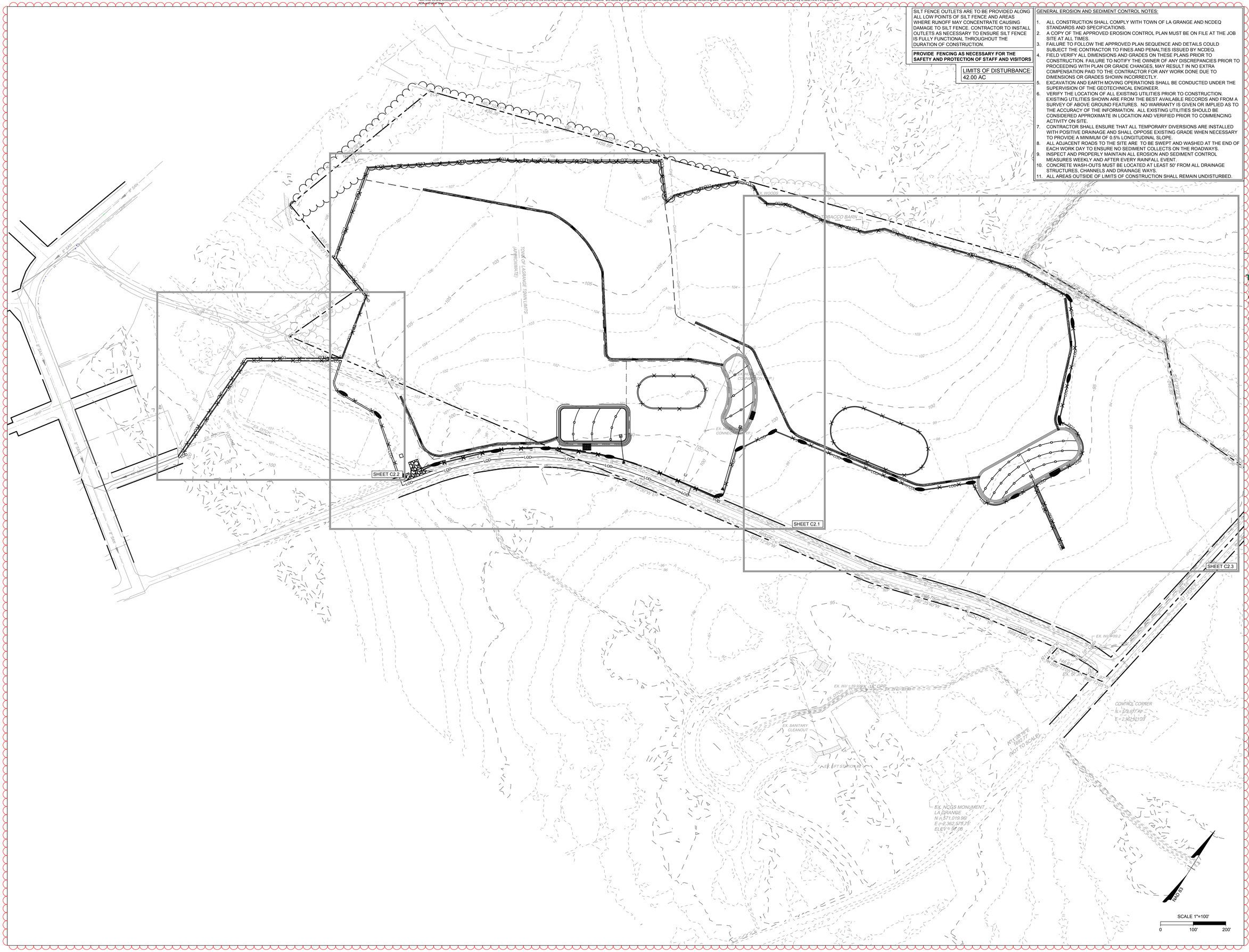

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1	04/17/2025	ADDENDUM 3

ISSUE DATE: 04/17/2025
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OVERALL EROSION CONTROL PLAN - PHASE I

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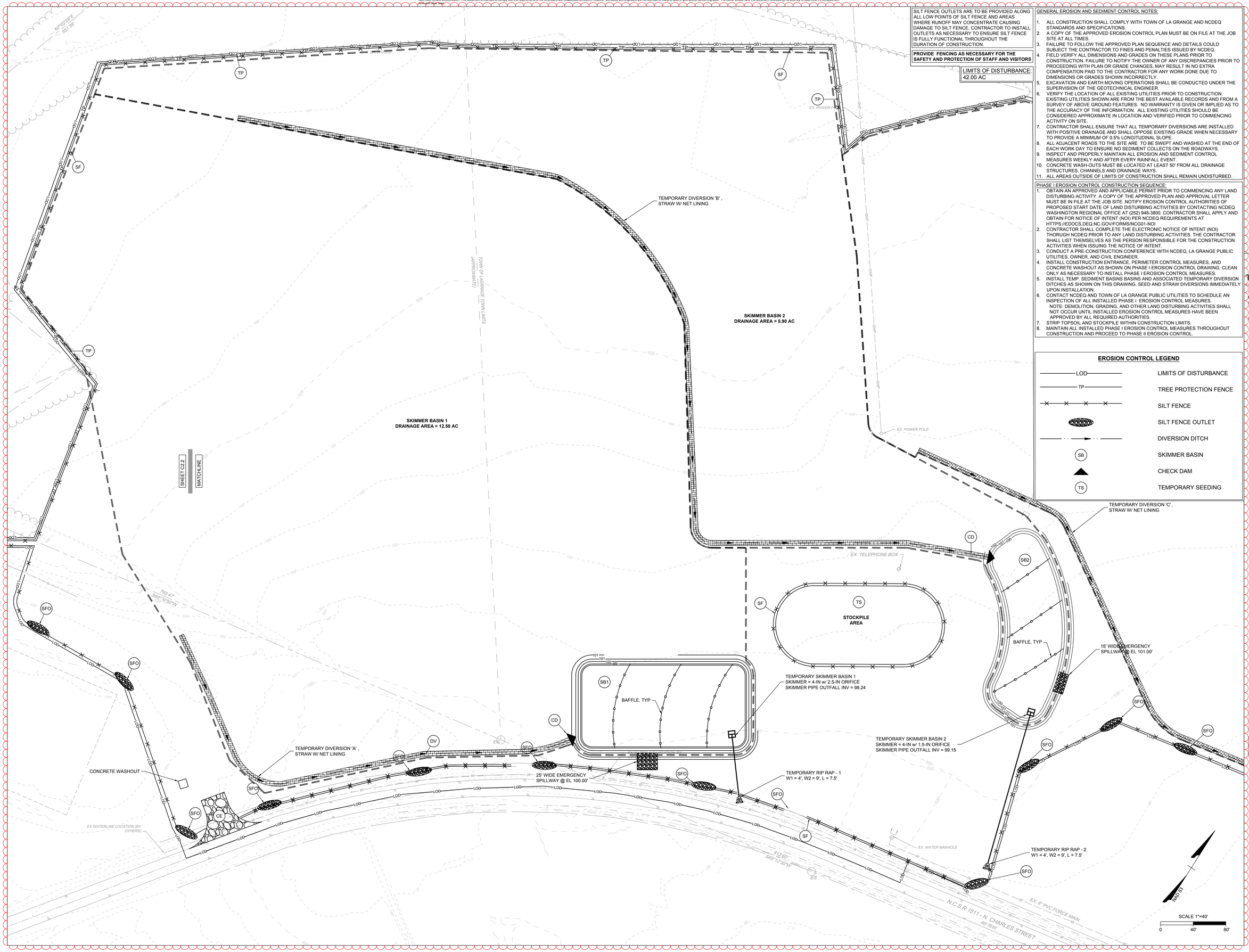

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LIMITS OF DISTURBANCE:
42.00 AC

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7. STRIP TOPSOIL AND STOCKPILE WITHIN CONSTRUCTION LIMITS.
8. MAINTAIN ALL INSTALLED PHASE I EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION AND PROCEED TO PHASE II EROSION CONTROL.

EROSION CONTROL LEGEND

LOD	LIMITS OF DISTURBANCE
TP	TREE PROTECTION FENCE
SF	SILT FENCE
SFO	SILT FENCE OUTLET
DV	DIVERSION DITCH
SB	SKIMMER BASIN
CD	CHECK DAM
TS	TEMPORARY SEEDING

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ISSUE DATE: 04/17/2025

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EROSION CONTROL PLAN - PHASE I

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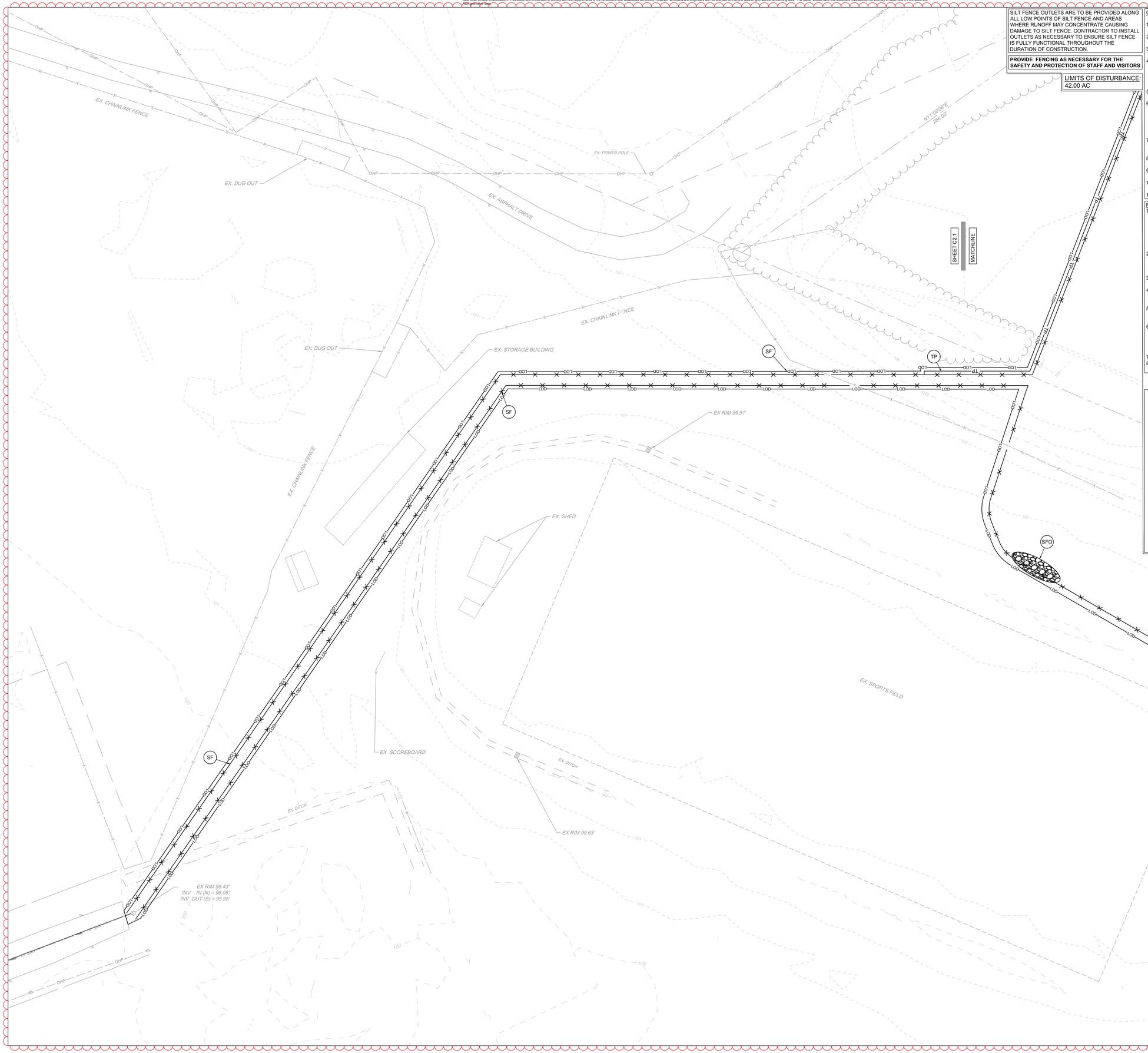

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EROSION CONTROL LEGEND

LOD	LIMITS OF DISTURBANCE
TP	TREE PROTECTION FENCE
	SILT FENCE
	SILT FENCE OUTLET
	DIVERSION DITCH
SB	SKIMMER BASIN
	CHECK DAM
TS	TEMPORARY SEEDING

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P: 919.573.6350
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NORTH CAROLINA PROFESSIONAL SEAL 034374 09/12/2024 ENGINEER Brandon L. McLamb

Construction Documents

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5410 TRINITY RD, SUITE 102
RALEIGH, NC 27607
OFFICE: 919.866.4935
TG CONTACT: BRANDON MCLAMB
TG PROJECT #: 64339
NC LICENSE NO. C-1652

Lenoir County

EB Frink Middle School

405 North Charles Street
La Grange NC, 28511

ENERGY STAR PARTNER

1	04/17/2025	ADDENDUM 3

ISSUE DATE: 04/17/2025
PROJECT #: 02303.000
DRAWN BY: JDH
CHECKED BY: BLM

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EROSION CONTROL PLAN - PHASE I

C2.2

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PROVIDE FENCING AS NECESSARY FOR THE SAFETY AND PROTECTION OF STAFF AND VISITORS

LIMITS OF DISTURBANCE:
42.00 AC

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF LA GRANGE AND NCDEQ STANDARDS AND SPECIFICATIONS.
2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY NCDEQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
5. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
7. CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY DIVERSIONS ARE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.5% LONGITUDINAL SLOPE.
8. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEPT AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
9. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
10. CONCRETE WASH-OUTS MUST BE LOCATED AT LEAST 50' FROM ALL DRAINAGE STRUCTURES, CHANNELS AND DRAINAGE WAYS.
11. ALL AREAS OUTSIDE OF LIMITS OF CONSTRUCTION SHALL REMAIN UNDISTURBED.

PHASE I EROSION CONTROL CONSTRUCTION SEQUENCE:

1. OBTAIN AN APPROVED AND APPLICABLE PERMIT PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. A COPY OF THE APPROVED PLAN AND APPROVAL LETTER MUST BE IN FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED START DATE OF LAND DISTURBING ACTIVITIES BY CONTACTING NCDEQ WASHINGTON REGIONAL OFFICE AT (252) 948-3800. CONTRACTOR SHALL APPLY AND OBTAIN FOR NOTICE OF INTENT (NOI) PER NCDEQ REQUIREMENTS AT HTTPS://EDOCS.DEQ.NC.GOV/FORMS/NCG01-NOI
2. CONTRACTOR SHALL COMPLETE THE ELECTRONIC NOTICE OF INTENT (NOI) THORUGH NCDEQ PRIOR TO ANY LAND DISTURBING ACTIVITIES. THE CONTRACTOR SHALL LIST THEMSELVES AS THE PERSON RESPONSIBLE FOR THE CONSTRUCTION ACTIVITIES WHEN ISSUING THE NOTICE OF INTENT.
3. CONDUCT A PRE-CONSTRUCTION CONFERENCE WITH NCDEQ, LA GRANGE PUBLIC UTILITIES, OWNER, AND CIVIL ENGINEER.
4. INSTALL CONSTRUCTION ENTRANCE, PERIMETER CONTROL MEASURES, AND CONCRETE WASHOUT AS SHOWN ON PHASE I EROSION CONTROL DRAWING. CLEAN ONLY AS NECESSARY TO INSTALL PHASE I EROSION CONTROL MEASURES.
5. INSTALL TEMP. SEDIMENT BASINS BASINS AND ASSOCIATED TEMPORARY DIVERSION DITCHES AS SHOWN ON THIS DRAWING. SEED AND STRAW DIVERSIONS IMMEDIATELY UPON INSTALLATION.
6. CONTACT NCDEQ AND TOWN OF LA GRANGE PUBLIC UTILITIES TO SCHEDULE AN INSPECTION OF ALL INSTALLED PHASE I EROSION CONTROL MEASURES.
   NOTE: DEMOLITION, GRADING, AND OTHER LAND DISTURBING ACTIVITIES SHALL NOT OCCUR UNTIL INSTALLED EROSION CONTROL MEASURES HAVE BEEN APPROVED BY ALL REQUIRED AUTHORITIES.
7. STRIP TOPSOIL AND STOCKPILE WITHIN CONSTRUCTION LIMITS.
8. MAINTAIN ALL INSTALLED PHASE I EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION AND PROCEED TO PHASE II EROSION CONTROL.

EROSION CONTROL LEGEND

LOD	LIMITS OF DISTURBANCE
TP	TREE PROTECTION FENCE
SFO	SILT FENCE
	SILT FENCE OUTLET
	DIVERSION DITCH
SB	SKIMMER BASIN
	CHECK DAM
TS	TEMPORARY SEEDING

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EROSION CONTROL PLAN - PHASE I

SCALE 1"=40'
0 40' 80'

C2.3

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TREELINE
TREELINE
EX. WOODS
EX. TOBACCO BARN
TOWN OF LAGRANGE TOWN LIMITS (APPROXIMATE)
EX. CHAINLINK FENCE
EX. WATERLINE
EX. FIRE HYDRANT
EX. WATER VALVE
EX. WATER MANHOLE
EX. HOSE REEL CONNECTION (TYP.)
EX. VINYL FENCE
EX. SANITARY CLEANOUT
EX. VALVE VAULT TOP = 95.54
EX. WET WELL TOP = 95.64 BOTTOM = 80.49 6" INV = 85.14
EX. LIFT STATION #8
EX. NCGS MONUMENT LA GRANGE N = 571,019.96' E = 2,362,579.75' ELEV = 97.08
CONTROL CORNER N = 572,677.73' E = 2,362,921.20'
LOCATION TAKEN FROM PLANS BY THE WOOTEN COMPANY DATED 5-30-08
EX WATERLINE LOCATION APPROX. OFF PROPERTY
SHEET C2.6
SHEET C2.5
SHEET C2.7
NAD 83
SCALE 1"=100'
0 100' 200'

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OVERALL EROSION CONTROL PLAN - PHASE II

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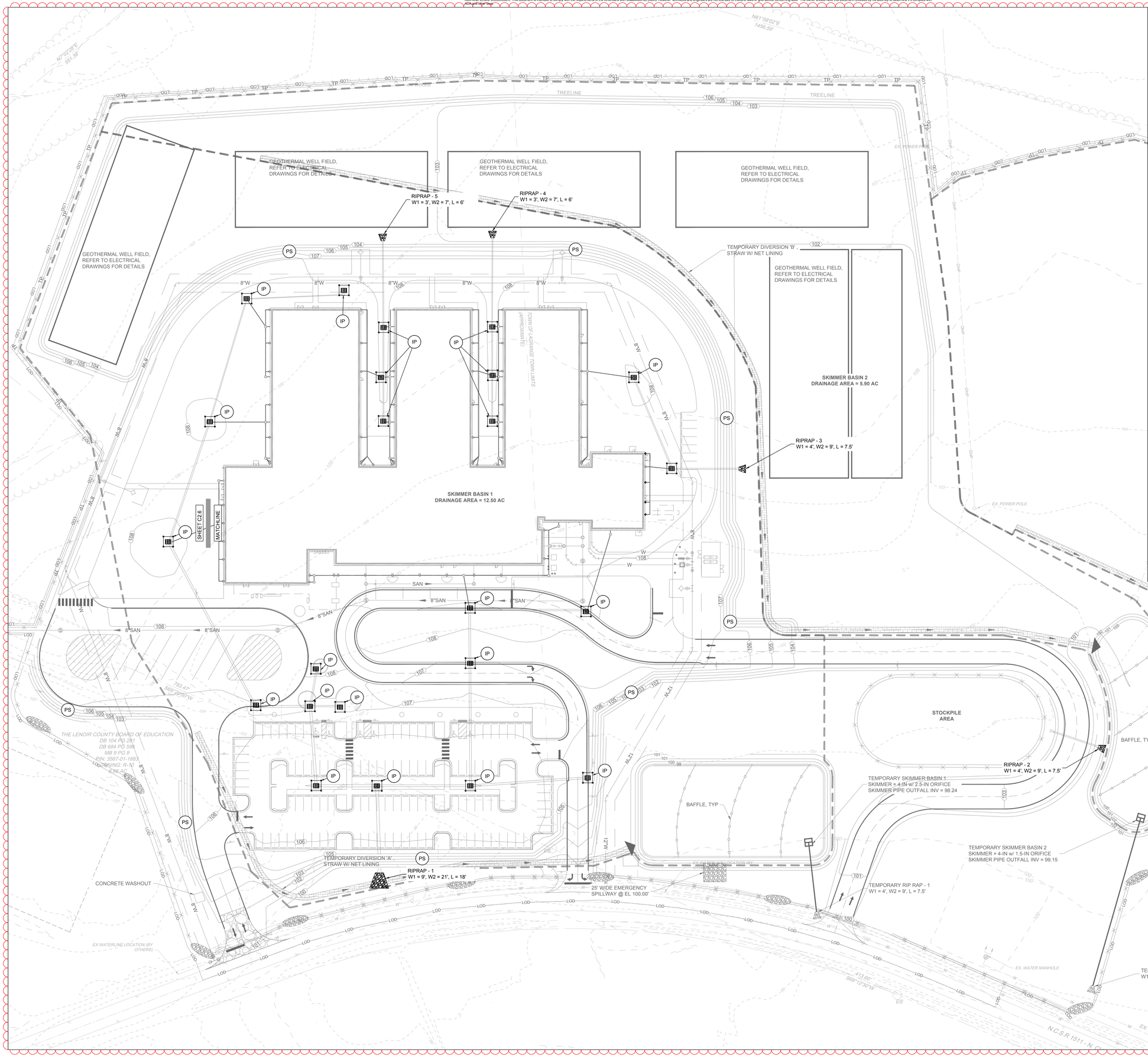

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PHASE II EROSION CONTROL CONSTRUCTION SEQUENCE:

1. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CANNOT HAVE HOLES OR TEARS.
2. IMPORTED MATERIAL WILL REQUIRE A PERMITTED SITE APPROVAL BEFORE THIS PROCESS BEGINS.
3. BEGIN GRADING AND CONSTRUCTION ON PROPOSED BUILDING.
4. BEGIN TO INSTALL STORM DRAINAGE SYSTEM AS SHOWN ON DRAWINGS. PIPE INLET PROTECTION SHALL BE UTILIZED AT THE END OF EACH WORK DAY TO ENSURE PIPE NETWORK IS NOT INUNDATED WITH SEDIMENT.
5. BEGIN TO INSTALL SITE IMPROVEMENTS, WATER MAINS, AND UTILITY SERVICES AS SHOWN ON DRAWINGS. ALL OPEN TRENCHES FOR UTILITY AND STORMWATER INSTALLATION SHALL BE PROTECTED FROM SEDIMENTATION BY PILING EXCAVATION MATERIAL ON THE UPHILL SITE OF EXCAVATION.
6. BEGIN FINE GRADING OF SITE UPON COMPLETION OF UTILITY INSTALLATION.
7. INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES AND/OR INCREASE MAINTENANCE FREQUENCY WHERE APPROVED MEASURES FAIL TO PREVENT ACCELERATION EROSION, OFF-SITE SEDIMENTATION, OR REPETITIVE NON-COMPLIANCE ISSUES. ALL MEASURES MUST BE INSTALLED PER DRAWING DETAIL. ENSURE CONSTRUCTION TRAFFIC IS LIMITED TO THE CONSTRUCTION ENTRANCE ONLY.
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PHASE II EROSION CONTROL LEGEND

- HARDWARE CLOTH & GRAVEL INLET PROTECTION
- OUTLET PROTECTION
- PS — PERMANENT SEEDING

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EROSION CONTROL PLAN - PHASE II

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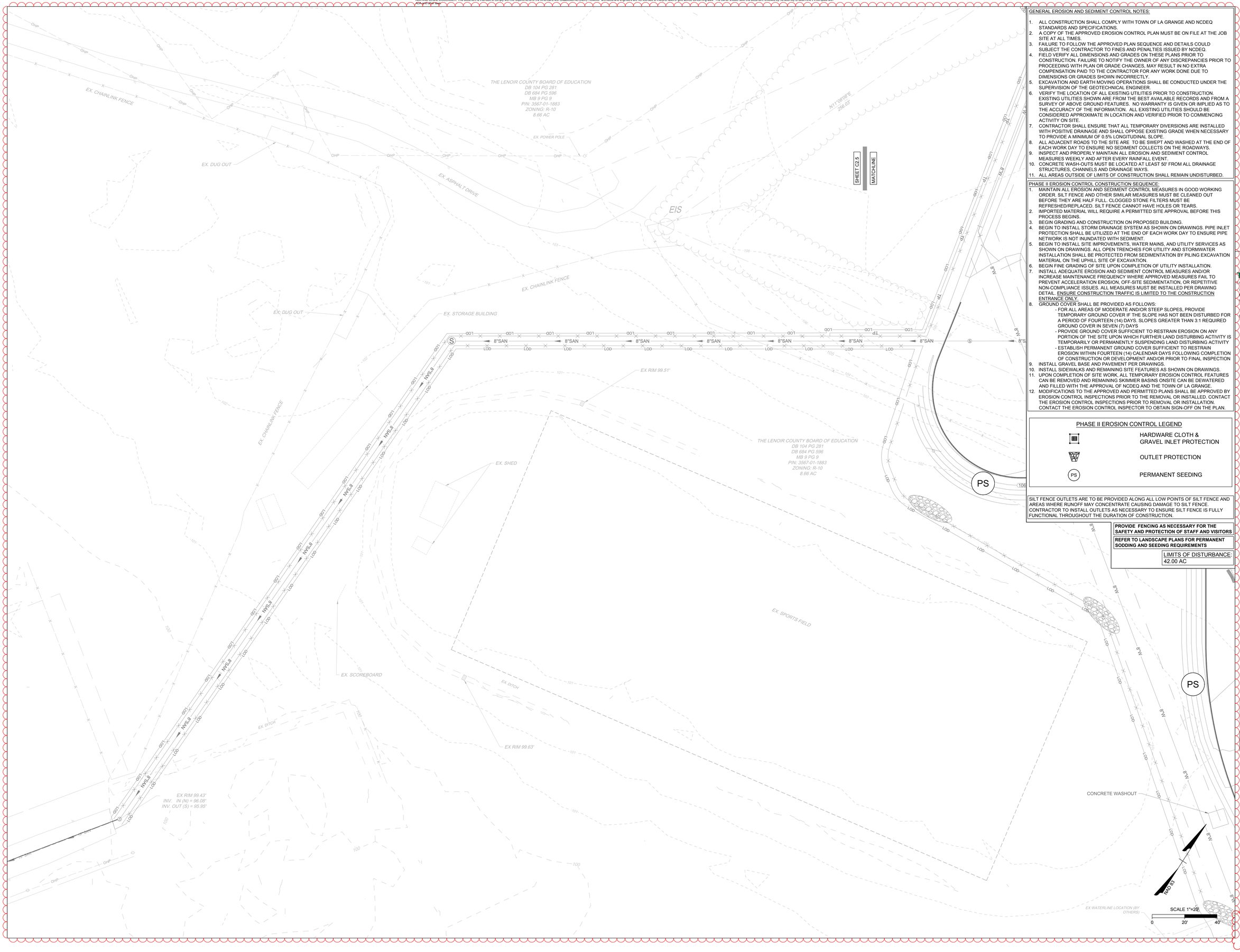

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EB Frink Middle School
405 North Charles Street
La Grange NC, 28511

ENERGY STAR PARTNER

1	04/17/2025	ADDENDUM 3

ISSUE DATE: 04/17/2025
PROJECT #: 02303.000
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EROSION CONTROL PLAN - PHASE II

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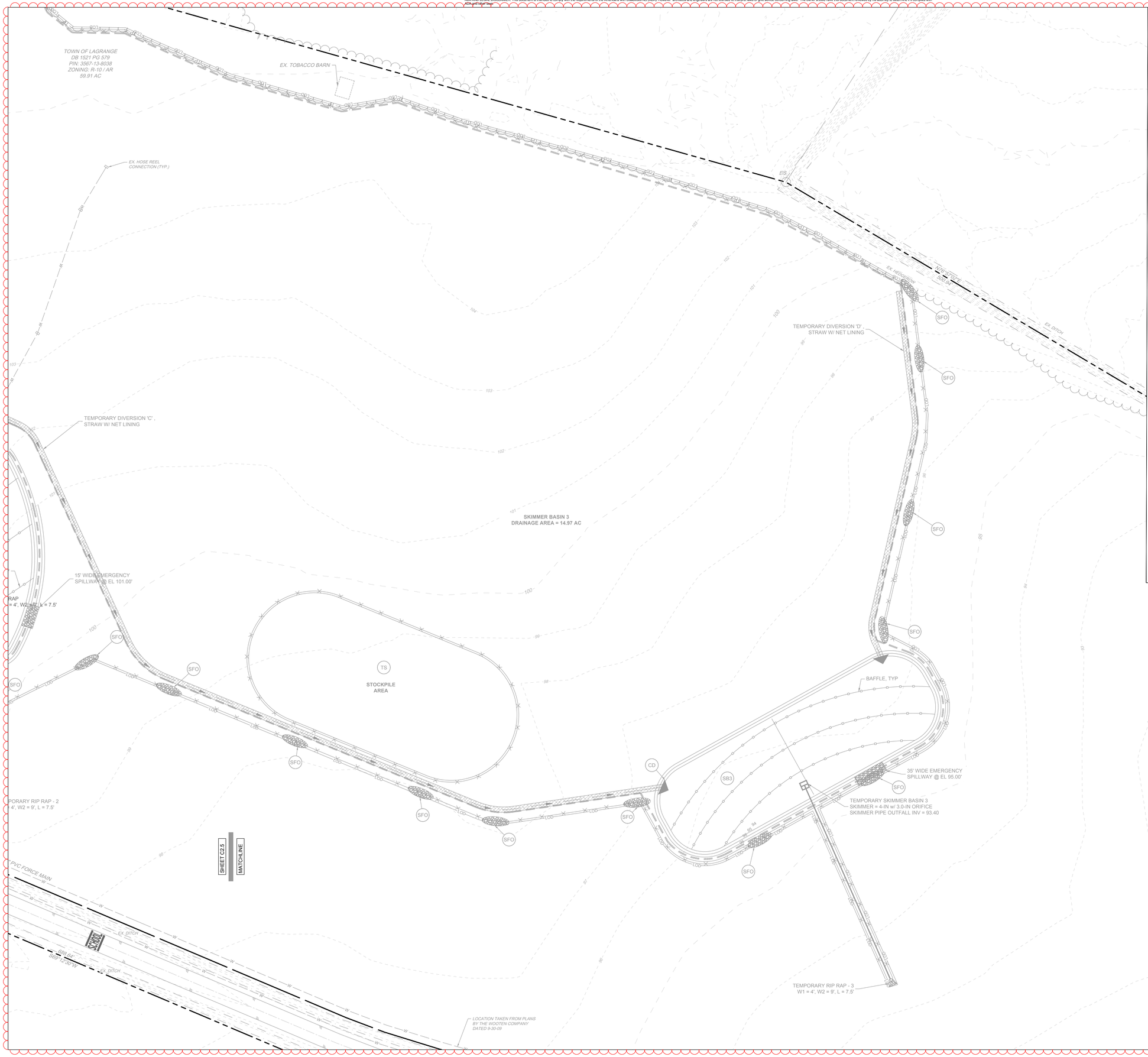

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF LA GRANGE AND NCDEQ STANDARDS AND SPECIFICATIONS.
2. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY NCDEQ.
4. FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
5. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
7. CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY DIVERSIONS ARE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.5% LONGITUDINAL SLOPE.
8. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEPT AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
9. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
10. CONCRETE WASH-OUTS MUST BE LOCATED AT LEAST 50' FROM ALL DRAINAGE STRUCTURES, CHANNELS AND DRAINAGE WAYS.
11. ALL AREAS OUTSIDE OF LIMITS OF CONSTRUCTION SHALL REMAIN UNDISTURBED.

PHASE II EROSION CONTROL CONSTRUCTION SEQUENCE:

1. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CANNOT HAVE HOLES OR TEARS.
2. IMPORTED MATERIAL WILL REQUIRE A PERMITTED SITE APPROVAL BEFORE THIS PROCESS BEGINS.
3. BEGIN GRADING AND CONSTRUCTION ON PROPOSED BUILDING.
4. BEGIN TO INSTALL STORM DRAINAGE SYSTEM AS SHOWN ON DRAWINGS. PIPE INLET PROTECTION SHALL BE UTILIZED AT THE END OF EACH WORK DAY TO ENSURE PIPE NETWORK IS NOT INUNDATED WITH SEDIMENT.
5. BEGIN TO INSTALL SITE IMPROVEMENTS, WATER MAINS, AND UTILITY SERVICES AS SHOWN ON DRAWINGS. ALL OPEN TRENCHES FOR UTILITY AND STORMWATER INSTALLATION SHALL BE PROTECTED FROM SEDIMENTATION BY PILING EXCAVATION MATERIAL ON THE UPHILL SITE OF EXCAVATION.
6. BEGIN FINE GRADING OF SITE UPON COMPLETION OF UTILITY INSTALLATION.
7. INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES AND/OR INCREASE MAINTENANCE FREQUENCY WHERE APPROVED MEASURES FAIL TO PREVENT ACCELERATION EROSION, OFF-SITE SEDIMENTATION, OR REPETITIVE NON-COMPLIANCE ISSUES. ALL MEASURES MUST BE INSTALLED PER DRAWING DETAIL. ENSURE CONSTRUCTION TRAFFIC IS LIMITED TO THE CONSTRUCTION ENTRANCE ONLY.
8. GROUND COVER SHALL BE PROVIDED AS FOLLOWS:
   - FOR ALL AREAS OF MODERATE AND/OR STEEP SLOPES, PROVIDE TEMPORARY GROUND COVER IF THE SLOPE HAS NOT BEEN DISTURBED FOR A PERIOD OF FOURTEEN (14) DAYS. SLOPES GREATER THAN 3:1 REQUIRED GROUND COVER IN SEVEN (7) DAYS
   - PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ANY PORTION OF THE SITE UPON WHICH FURTHER LAND DISTURBING ACTIVITY IS TEMPORARILY OR PERMANENTLY SUSPENDING LAND DISTURBING ACTIVITY
   - ESTABLISH PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION WITHIN FOURTEEN (14) CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT AND/OR PRIOR TO FINAL INSPECTION
9. INSTALL GRAVEL BASE AND PAVEMENT PER DRAWINGS.
10. INSTALL SIDEWALKS AND REMAINING SITE FEATURES AS SHOWN ON DRAWINGS.
11. UPON COMPLETION OF SITE WORK, ALL TEMPORARY EROSION CONTROL FEATURES CAN BE REMOVED AND REMAINING SKIMMER BASINS ONSITE CAN BE DEWATERED AND FILLED WITH THE APPROVAL OF NCDEQ AND THE TOWN OF LA GRANGE.
12. MODIFICATIONS TO THE APPROVED AND PERMITTED PLANS SHALL BE APPROVED BY EROSION CONTROL INSPECTIONS PRIOR TO THE REMOVAL OR INSTALLED. CONTACT THE EROSION CONTROL INSPECTIONS PRIOR TO REMOVAL OR INSTALLATION. CONTACT THE EROSION CONTROL INSPECTOR TO OBTAIN SIGN-OFF ON THE PLAN.

PHASE II EROSION CONTROL LEGEND

	HARDWARE CLOTH & GRAVEL INLET PROTECTION
	OUTLET PROTECTION
PS	PERMANENT SEEDING

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

PROVIDE FENCING AS NECESSARY FOR THE SAFETY AND PROTECTION OF STAFF AND VISITORS

REFER TO LANDSCAPE PLANS FOR PERMANENT SODDING AND SEEDING REQUIREMENTS

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RALEIGH, NC 27607
OFFICE: 919.866.4935
TG CONTACT: BRANDON MCLAMB
TG PROJECT #: 64339
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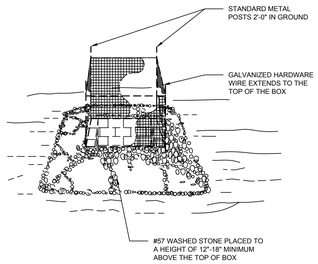
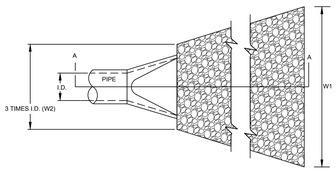
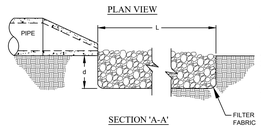


NOTE:
1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

1 YARD INLET PROTECTION N.T.S.



MAINTENANCE
RIP RAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.

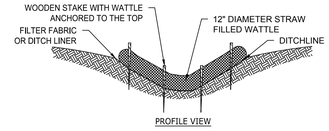


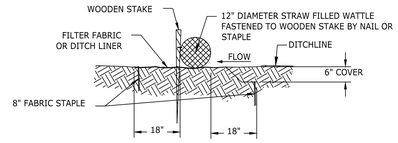
NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. MAINTAIN ENERGY DISSIPATERS INSTALLED DURING EARLY SITE WORK THROUGHOUT THE CONSTRUCTION AREA.

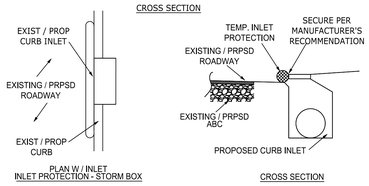
ENERGY DISSIPATER SCHEDULE

	PIPE SIZE	W1 (FT)	W2 (FT)	LENGTH (FT)	THICKNESS (IN). (d)	D50 SIZE (IN.)	STONE CLASS
RR-1	36"	9.0	18.0	21.0	12	3	A
RR-2	15"	4.0	7.5	9.0	12	3	A
RR-3	15"	4.0	7.5	9.0	12	3	A
RR-4	12"	3.0	6.0	7.0	12	3	A
RR-5	12"	3.0	6.0	7.0	12	3	A
TRR-1	15"	4.0	7.5	9.0	12	3	A
TRR-2	15"	4.0	7.5	9.0	12	3	A
TRR-3	15"	4.0	7.5	9.0	12	3	A

2 RIPRAP OUTLET PROTECTION N.T.S.



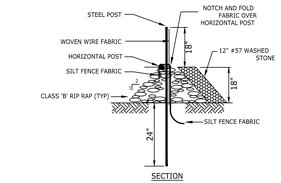


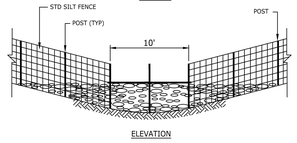


NOTES:
1. WATTLES SHALL BE FILLED WITH STRAW OR OTHER APPROVED MATERIAL.
2. SPACING FOR WATTLES SHALL BE AS SHOWN ON EROSION CONTROL PLAN.
3. STAKE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. THE SOCK SHALL BE PRODUCED FROM A 5 MIL THICK CONTINUOUS POLYPROPYLENE, WOVEN INTO A TUBULAR MESH NETTING MATERIAL, WITH OPENINGS IN THE KNITTED MESH OF 1/8"TO 3/8" OPENINGS.
5. HARDWOOD 2"x2" STAKES SHALL BE DRIVEN THROUGH CENTER OF COMPOST SOCK AT 4' O.C. MAXIMUM SPACING ANGLED UP SLOPE.

MAINTENANCE NOTES:
1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
3. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
4. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
5. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

3 TEMPORARY WATTLE N.T.S.

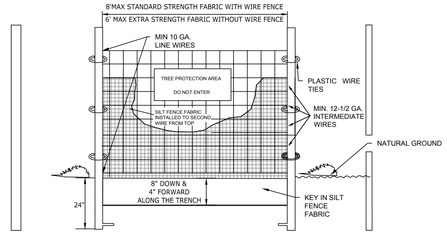


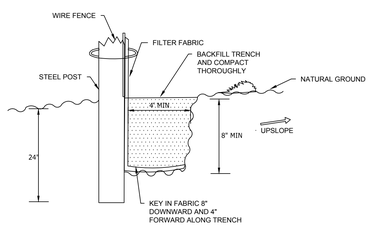


NOTES:
1. INSTALL SILT FENCE PER STD. SILT FENCE DETAIL.
2. LOCATE REINFORCED OUTLET AT LOW POINTS OF SILT FENCE BARRIER.

MAINTENANCE NOTES:
1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

4 REINFORCED SILT FENCE OUTLET N.T.S.

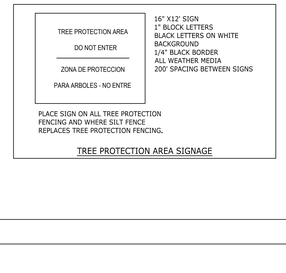




SILT FENCE KEY-IN DETAIL

INSTALLATION SPECIFICATIONS:
1. THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ON FOOT HIGHER THAN THE MIDDLE OF THE FENCE, CHECK WITH A LEVEL IF NECESSARY.
2. INSTALL POSTS 4 FEET APART IN CRITICAL AREAS AND 6 FEET APART ON STANDARD APPLICATIONS.
3. INSTALL POSTS 2 FEET DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FABRIC.
5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
6. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
7. NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE GROUND LEVEL.
8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.
9. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
10. TREE PROTECTION SIGNS ARE TO BE PLACED EVERY 50-FT AND FENCE MUST REMAIN UNTIL CLOSEOUT OF PROJECT.

MAINTENANCE:
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



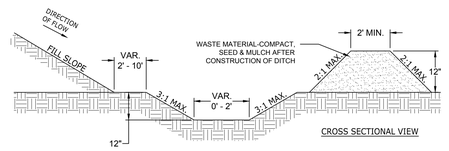
TREE PROTECTION AREA SIGNAGE

5 SILT FENCE N.T.S.

MAINTENANCE

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

NOTES:
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR SCM.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.



DITCH	TOTAL FLOW (CFS)	SLOPE (%)	BOTTOM WIDTH (FT)	RIGHT SLOPE (H:V)	LEFT SLOPE (H:V)	FLOW DEPTH (FT)	TEMPORARY LINER	PERMANENT LINER
TDD - A	33.78	0.28	0	3:1	3:1	0.40	STRAW W/ NET	N/A
TDD - B	24.38	0.39	0	3:1	3:1	0.40	STRAW W/ NET	N/A
TDD - C	51.41	0.92	0	3:1	3:1	0.40	STRAW W/ NET	N/A
TDD - D	13.22	0.74	0	3:1	3:1	0.40	STRAW W/ NET	N/A

*SWALES HAVE BEEN DESIGNED USING RAINFALL INTENSITY FOR THE 10-YEAR STORM ACCORDING TO THE NCDENR EROSION CONTROL MANUAL.

6 DIVERSION DITCH / BERM N.T.S.

CONSTRUCTION NOTES:
1. ENTRANCE(S) SHALL BE LOCATED TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
2. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL TO BE PROVIDED.
3. ENTRANCES MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY. CONTRACTOR SHALL MAINTAIN AS NECESSARY.
4. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
5. FREQUENT CHECKS OF THE ENTRANCE(S) AND TIMELY MAINTENANCE SHALL BE PROVIDED.
6. NOTES ARE APPLICABLE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED.

MAINTENANCE NOTES:
1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. MAY REQUIRE PERIODIC TOPDRESSING WITH 2"CH STONE.
2. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS..

7 GRAVEL CONSTRUCTION ENTRANCE N.T.S.

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EROSION CONTROL NOTES & DETAILS

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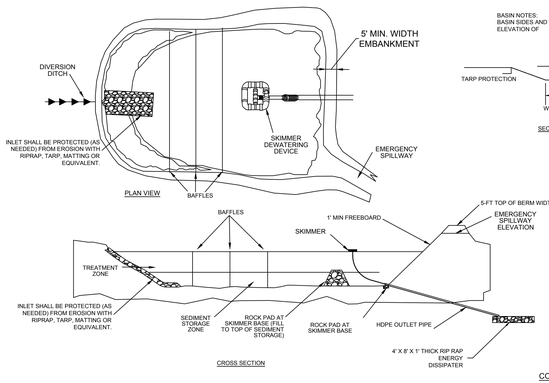
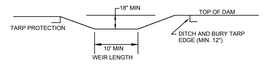
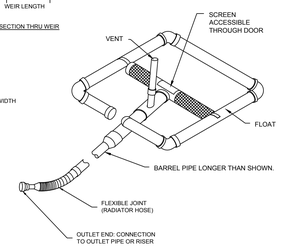


BASIN NOTES:
BASIN SIDES AND WEIR SHALL HAVE MAXIMUM SLOPES OF 2:1 OR FLATTER. DIMENSIONS SHOWN ARE AT WEIR ELEVATION OF BASIN VOLUMES PROVIDED ARE BASED ON AVAILABLE VOLUME AT THE PRINCIPAL SPILLWAY



SECTION THRU WEIR



MAINTENANCE NOTES:

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

CONSTRUCTION SEQUENCE

1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
3. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
4. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.
5. ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
6. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
7. EARTHEN SPILLWAYS--INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. (ADAPTED FROM "A MANUAL FOR DESIGNING, INSTALLING AND MAINTAINING SKIMMER SEDIMENT BASINS." FEBRUARY, 1999. J. W. FAIRCLOTH & SON.)
8. INLETS--DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT- LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).
9. EROSION CONTROL--CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).
10. INSTALL POROUS BAFFLES AS SPECIFIED IN PRACTICE 6.65
11. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION).

BASIN NUMBER	DRAIN AREA(ACRES)	DISTB. AREA(ACRES)	PEAK FLOW(CFS)	BASIN SURFACE AREA(SF)	REQUIRED SURFACE AREA(SF)	BASIN VOLUME (CF)	REQUIRED BASIN VOLUME (CF)	SPILLWAY LENGTH (FT)	SKIMMER SIZE (IN.)	SKIMMER ORIFICE DIAMETER (IN.)	TOP OF BERM ELEV.	EMERGENCY SPILLWAY ELEV.	BOTTOM OF BASIN ELEV.	SIDE SLOPES	DEWATERING TIME (DAYS)
1	12.50	42.00	65.69	22,532	21,349	41,939	22,500	25	4	2.5	101	100	98.50	3:1	2.70
2	5.90	42.00	29.17	15,390	9,481	14,575	10,620	15	4	1.5	102	101	100.00	3:1	3.54
3	17.67	42.00	93.72	33,373	30,460	32,187	31,806	35	4	3	96	95	94	3:1	2.65

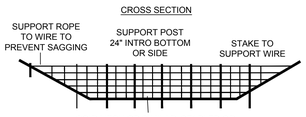
1 SKIMMER BASIN N.T.S.

PLAN VIEW

SECTION VIEW AT OPENING

NOTES:
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS
6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL

CROSS SECTION



MAINTENANCE
INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

3 COIR MESH BAFFLES (NCDENR 6.65) N.T.S.

*NOTE: GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH A ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE OF THE OPTIMUM GERMINATION SEASONS, WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE GROUND COVER.

(TS) TEMPORARY SEEDING

SEEDING MIXTURE

"COOL SEASON" SEPTEMBER 1 - FEBRUARY 28

SPECIES	RATE (lb/ACRE)
SOFT RED WINTER WHEAT	120

"WARM SEASON" MARCH 1 - AUGUST 31

SPECIES	RATE (lb/ACRE)
GERMAN, BROWN TOP, OR FOX TAIL MILLET	65

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 2,000LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LBS/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 lb/ACRE STRAW. THE GROUND SHOULD BE COMPLETELY COVERED WITH NO BARE SPOT LARGER THAN A QUARTER, THEN TACKED WITH EMULSIFIED ASPHALT. EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE HEAVY ENOUGH THAT THE ENTIRE AREA APPEARS BLACK IN COLOR.

MAINTENANCE

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDBED PREPARATION SEQUENCE

1. LOOSEN SUBGRADE TO A MINIMUM DEPT OF 8 INCHES, REMOVE STONES LARGER THAN 1½ IN. IN ANY DIMENSION.
2. SPREAD TOPSOIL TO DEPTH REQUIRED TO MEET THICKNESS, GRADES AND ELEVATIONS SHOWN.
3. REMOVE AND DISPOSE OF EXISTING GRASS, VEGETATION AND TURF. TILL SURFACE SOIL TO A DEPTH OF AT LEAST 6 INCHES. APPLY REQUIRED SOIL AMENDMENTS AND INITIAL FERTILIZERS AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. TILL SOIL INTO A HOMOGENOUS MIXTURE OF FINE TEXTURE.
4. GRADE LAWN AND GRASS AREAS TO A SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, FILL DEPRESSIONS TO MEET FINISH GRADES.
5. PROVIDE SEEDING SCHEDULE

NOTES:
1. ENSURE SOIL COMPACTION REQUIREMENTS ARE MET PRIOR TO SEEDING. MINIMUM COMPACTION REQUIRED IS 95% OF THE STANDARD PROCTOR DENSITY FOR SLOPES UP TO 5%. MINIMUM COMPACTION REQUIRED IS 90% MAXIMUM DRY DENSITY ELSEWHERE INCLUDING ON SLOPES 4:1 OR STEEPER.
2. PROTECT SEEDED AREAS LESS THAN 3:1 SLOPE/GRADE AGAINST EROSION BY SPREADING STRAW MULCH AFTER COMPLETION OF SEEDING OPERATIONS. SPREAD UNIFORMLY AT A MINIMUM RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET 1-1/2 INCHES LOOSE DEPTH OVER SEEDED AREAS. SPREAD BY HAND, BLOWER, OR OTHER SUITABLE EQUIPMENT.
3. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
4. SATISFACTORY LAWN: SEEDED LAWNS SHALL BE CONSIDERED SATISFACTORY/ACCEPTABLE PROVIDED REQUIREMENTS, INCLUDING MAINTENANCE, HAVE BEEN MET AND A HEALTHY, UNIFORM, CLOSE STAND OF GRASS IS ESTABLISHED, FREE OF WEEDS, BARE SPOTS EXCEEDING 5 BY 5 INCHES AND SURFACE IRREGULARITIES.

SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

1. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
2. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

(PS) PERMANENT SEEDING

PERMANENT SEEDINGS:

"COOL SEASON" SEPTEMBER 1 - FEBRUARY 28

PROVIDE TEMPORARY SEEDING UNTIL WARM SEASON CELEBRATION BERMUDA GRASS CAN BE PLANTED.

"WARM SEASON" MARCH 1 - AUGUST 31

SPECIES	RATE (lb/ACRE)
CELEBRATION BERMUDA	200 LB/ACRE

SOIL AMENDMENTS

TILL SOIL TO A DEPTH OF 4". APPLY LIME AT A RATE OF 70 LB PER 100 SF, OR 1.5 TONS PER ACRE. APPLY 10-20-20 FERTILIZER AT A RATE OF 20 LBS PER 1000 SF OR 850 LBS PER ACRE. THE FERTILIZER SHOULD BE EITHER SLOW TIME RELEASE OR APPLIED IN TWO APPLICATIONS, HALF AT TIME OF PLANTING AND THE SECOND HALF AFTER PERMANENT SEED GERMINATES.

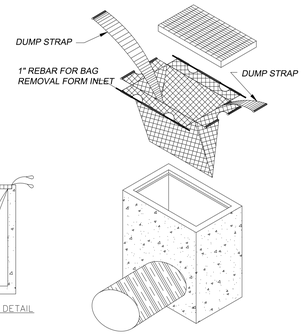
MULCH

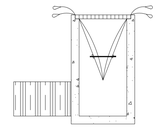
APPLY 4,000 lb/ACRE STRAW. THE GROUND SHOULD BE COMPLETELY COVERED WITH NO BARE SPOT LARGER THAN A QUARTER, THEN TACKED WITH EMULSIFIED ASPHALT. EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE HEAVY ENOUGH THAT THE ENTIRE AREA APPEARS BLACK IN COLOR.

MAINTENANCE

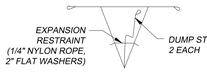
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RE-SOD, RE-FERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

4 TEMPORARY / PERMANENT SEEDING SCHEDULE N.T.S.





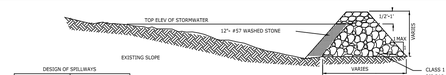
INSTALLATION DETAIL



BAG DETAIL

NOTES:
1. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

2 SILT-BAG INLET PROTECTION N.T.S.



DESIGN OF SPILLWAYS

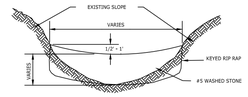
DRAINAGE AREA (ACRES)	POS. WEIR LENGTH (FT)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

SIDE VIEW

NOTES:
HEIGHT AND WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.

KEY RIP RAP INTO THE DAM FOR STABILIZATION.

STEP SEQUENCE



FRONT VIEW

MAINTENANCE NOTES:
1. INSPECT CHECK PROTECTION WEEKLY AND AFTER 1/2" RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.
2. IMMEDIATELY CORRECT ANY DAMAGE CAUSED BY SUBMERGED AND DEPOSITION ABOVE THE CHECK DAM AND FROM HIGH FLOWS AROUND THE EDGES.
3. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAINTHROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM, ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

5 TEMPORARY ROCK CHECK DAM N.T.S.

DATE: PAGE:

TRIANGULAR "V" CHANNEL CROSS SECTION
X-Section Area (A) = Zd^2
Top Width (T) = 2dz
Z= $\frac{s}{2}$

PARABOLIC CHANNEL CROSS SECTION
X-Section Area (A) = $\frac{2}{3}$ Td
Top Width (T) = $\frac{1.5A}{d}$

TRAPEZOIDAL CHANNEL CROSS SECTION
X-Section Area (A) = bd + Zd^2
Top Width (T) = b + 2dz
Z= $\frac{s}{2}$

NOTES:
1. At a minimum, grass-lined channels should carry peak runoff from the 10-year storm without eroding. Increase the capacity according to the potential damage if flood hazard exists.
2. If design velocity of the channel to be vegetated by seeding exceeds 2 feet per second, a temporary channel liner is required.
3. Channel side slopes should be 3:1 or flatter to aid in the establishment of vegetation and for maintenance. V-shaped channels along roadways should have side slopes of 6:1 or flatter for safety.
4. Remove all trees, brush, stumps, and other objectionable material from the foundation area, and dispose of properly.
5. Excavate the channel, and shape it to neat lines and dimensions shown on the plans plus a 0.2 foot overcut around the channel perimeter to allow for bulking during seedbed preparations and sod buildup.
6. Remove and properly dispose of all excess soil so that the surface water may enter the channel freely.
7. The procedures used to establish grass in the channel will depend upon the severity of the conditions and selection of species. Protect the channel with mulch or a temporary liner sufficient to withstand anticipated velocities during the establishment period.

Maintenance:
1. During the establishment period, check grass-lined channels after every rainfall.
2. After grass is established, periodically check the channel, check after heavy rainfall events and immediately make any necessary repairs.
3. Check the channel outlet and all road crossings for bank stability and evidence of piping or scour holes.
4. Remove all significant sediment accumulations to maintain the designed carrying capacity.
5. Keep grass in a healthy, vigorous condition at all times.

DEQ [Effective Date: 9/1/2023; In accordance with the 2013 Design Manual Updates]

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1	04/17/2025	ADDENDUM 3

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

IMPLEMENTING THE DETAILS AND SPECIFICATIONS ON THIS PLAN SHEET WILL RESULT IN THE CONSTRUCTION ACTIVITY BEING CONSIDERED COMPLIANT WITH THE GROUND STABILIZATION AND MATERIALS HANDLING SECTIONS OF THE NCG01 CONSTRUCTION GENERAL PERMIT (SECTIONS E AND F, RESPECTIVELY). THE PERMITTEE SHALL COMPLY WITH THE EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE DELEGATED AUTHORITY HAVING JURISDICTION. ALL DETAILS AND SPECIFICATIONS SHOWN ON THIS SHEET MAY NOT APPLY DEPENDING ON SITE CONDITIONS AND THE DELEGATED AUTHORITY HAVING JURISDICTION.

SECTION E: GROUND STABILIZATION

REQUIRED GROUND STABILIZATION TIMEFRAMES		
SITE AREA DESCRIPTION	**STABILIZE WITHIN THIS MANY CALENDAR DAYS AFTER CEASING LAND DISTURBANCE**	**TIMEFRAME VARIATIONS**
(A) PERIMETER DIKES, SWALES, DITCHES, AND PERIMETER SLOPES	7	NONE
(B) HIGH QUALITY WATER (HQW) ZONES	7	NONE
(C) SLOPES STEEPER THAN 3:1	7	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
(D) SLOPES 3:1 TO 4:1	14	-7 DAYS FOR SLOPES > 50' IN LENGTH AND WITH SLOPES STEEPER THAN 4:1 -7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND HQW ZONES -10 DAYS FOR FALLS LAKE WATERSHED
(E) AREAS WITH SLOPES FLATTER THAN 4:1	14	-7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND HQW ZONES -10 DAYS FOR FALLS LAKE WATERSHED UNLESS THERE IS ZERO SLOPE

NOTE: AFTER THE PERMANENT CESSATION OF CONSTRUCTION ACTIVITIES, ANY AREAS WITH TEMPORARY GROUND STABILIZATION SHALL BE CONVERTED TO PERMANENT GROUND STABILIZATION AS SOON AS PRACTICABLE BUT IN NO CASE LONGER THAN 90 CALENDAR DAYS AFTER THE LAST LAND DISTURBING ACTIVITY. TEMPORARY GROUND STABILIZATION SHALL BE MAINTAINED IN A MANNER TO RENDER THE SURFACE STABLE AGAINST ACCELERATED EROSION UNTIL PERMANENT GROUND STABILIZATION IS ACHIEVED.

GROUND STABILIZATION SPECIFICATION

STABILIZE THE GROUND SUFFICIENTLY SO THAT RAIN WILL NOT DISLODGE THE SOIL. USE ONE OF THE TECHNIQUES IN THE TABLE BELOW:

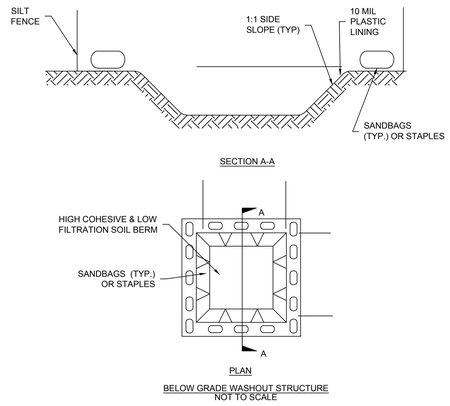
TEMPORARY STABILIZATION	PERMANENT STABILIZATION
• **TEMPORARY GRASS SEED COVERED WITH STRAW OR OTHER MULCHES AND TACKIFIERS** • **HYDROSEEDING** • **ROLLED EROSION CONTROL PRODUCTS WITH OR WITHOUT TEMPORARTY GRASS SEED** • **APPROPRIATELY APPLIED STRAW OR OTHER MULCH** • **PLASTIC SHEETING**	• **PERMANENT GRASS SEED COVERED WITH STRAW OR OTHER MULCHES AND TACKIFIERS** • **GEOTEXTILE FABRICS SUCH AS PERMANENT SOIL REINFORCEMENT MATTING** • **HYDROSEEDING** • **SHRUBS OR OTHER PERMANENT PLANTINGS COVERED WITH MULCH** • **UNIFORM AND EVENLY DISTRIBUTED GROUND COVER SUFFICIENT TO RESTRAIN EROSION** • **STRUCTURAL METHODS SUCH AS CONCRETE, ASPHALT OR RETAINING WALLS** • **ROLLED EROSION CONTROL PRODUCTS WITH GRASS SEED**

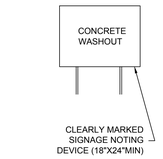
POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. SELECT FLOCCULANTS THAT ARE APPROPRIATE FOR THE SOILS BEING EXPOSED DURING CONSTRUCTION, SELECTING FROM THE *NC DWR LIST OF APPROVED PAMS/FLOCCULANTS*.
2. APPLY FLOCCULANTS AT OR BEFORE THE INLETS TO EROSION AND SEDIMENT CONTROL MEASURES.
3. APPLY FLOCCULANTS AT THE CONCENTRATIONS SPECIFIED IN THE *NC DWR LIST OF APPROVED PAMS/FLOCCULANTS* AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE PONDING AREA FOR CONTAINMENT OF TREATED STORMWATER BEFORE DISCHARGING OFFSITE.
5. STORE FLOCCULANTS IN LEAK-PROOF CONTAINERS THAT ARE KEPT UNDER STORM-RESISTANT COVER OR SURROUNDED BY SECONDARY CONTAINMENT STRUCTURES.

EQUIPMENT AND VEHICLE MAINTENANCE

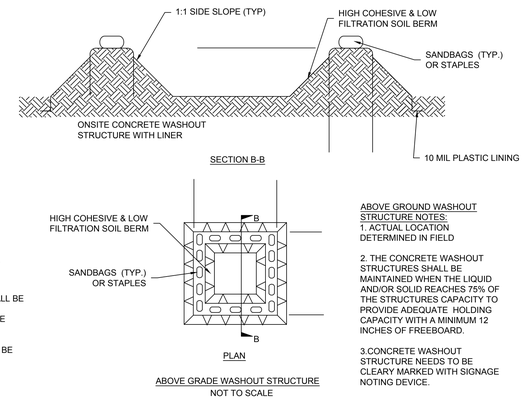
1. MAINTAIN VEHICLES AND EQUIPMENT TO PREVENT DISCHARGE OF FLUIDS.
2. PROVIDE DRIP PANS UNDER ANY STORED EQUIPMENT.
3. IDENTIFY LEAKS AND REPAIR AS SOON AS FEASIBLE, OR REMOVE LEAKING EQUIPMENT FROM THE PROJECT.
4. COLLECT ALL SPENT FLUIDS, STORE IN SEPARATE CONTAINERS AND PROPERLY DISPOSE AS HAZARDOUS WASTE (RECYCLE WHEN POSSIBLE).
5. REMOVE LEAKING VEHICLES AND CONSTRUCTION EQUIPMENT FROM SERVICE UNTIL THE PROBLEM HAS BEEN CORRECTED.
6. BRING USED FUELS, LUBRICANTS, COOLANTS, HYDRAULIC FLUIDS AND OTHER PETROLEUM PRODUCTS TO A RECYCLING OR DISPOSAL CENTER THAT HANDLES THESE MATERIALS.





BELOW GROUND CONCRETE WASHOUT NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GROUND WASHOUT STRUCTURE NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. NEVER BURY OR BURN WASTE. PLACE LITTER AND DEBRIS IN APPROVED WASTE CONTAINERS.
2. PROVIDE A SUFFICIENT NUMBER AND SIZE OF WASTE CONTAINERS (E.G DUMPSTER, TRASH RECEPTACLE) ON SITE TO CONTAIN CONSTRUCTION AND DOMESTIC WASTES.
3. LOCATE WASTE CONTAINERS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
4. LOCATE WASTE CONTAINERS ON AREAS THAT DO NOT RECEIVE SUBSTANTIAL AMOUNTS OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO A STORM DRAIN, STREAM OR WETLAND.
5. COVER WASTE CONTAINERS AT THE END OF EACH WORKDAY AND BEFORE STORM EVENTS OR PROVIDE SECONDARY CONTAINMENT. REPAIR OR REPLACE DAMAGED WASTE CONTAINERS.
6. ANCHOR ALL LIGHTWEIGHT ITEMS IN WASTE CONTAINERS DURING TIMES OF HIGH WINDS.
7. EMPTY WASTE CONTAINERS AS NEEDED TO PREVENT OVERFLOW. CLEAN UP IMMEDIATELY IF CONTAINERS OVERFLOW.
8. DISPOSE WASTE OFF-SITE AT AN APPROVED DISPOSAL FACILITY.
9. ON BUSINESS DAYS, CLEAN UP AND DISPOSE OF WASTE IN DESIGNATED WASTE CONTAINERS.

PAINT AND OTHER LIQUID WASTE

1. DO NOT DUMP PAINT AND OTHER LIQUID WASTE INTO STORM DRAINS, STREAMS OR WETLANDS.
2. LOCATE PAINT WASHOUTS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
3. CONTAIN LIQUID WASTES IN A CONTROLLED AREA.
4. CONTAINMENT MUST BE LABELED, SIZED AND PLACED APPROPRIATELY FOR THE NEEDS OF SITE.
5. PREVENT THE DISCHARGE OF SOAPS, SOLVENTS, DETERGENTS AND OTHER LIQUID WASTES FROM CONSTRUCTION SITES.

PORTABLE TOILETS

1. INSTALL PORTABLE TOILETS ON LEVEL GROUND, AT LEAST 50 FEET AWAY FROM STORM DRAINS, STREAMS OR WETLANDS UNLESS THERE IS NO ALTERNATIVE REASONABLY AVAILABLE. IF 50 FOOT OFFSET IS NOT ATTAINABLE, PROVIDE RELOCATION OF PORTABLE TOILET BEHIND SILT FENCE OR PLACE ON A GRAVEL PAD AND SURROUND WITH SAND BAGS.
2. PROVIDE STAKING OR ANCHORING OF PORTABLE TOILETS DURING PERIODS OF HIGH WINDS OR IN HIGH FOOT TRAFFIC AREAS.
3. MONITOR PORTABLE TOILETS FOR LEAKING AND PROPERLY DISPOSE OF ANY LEAKED MATERIAL. UTILIZE A LICENSED SANITARY WASTE HAULER TO REMOVE LEAKING PORTABLE TOILETS AND REPLACE WITH PROPERLY OPERATING UNIT.

EARTHEN STOCKPILE MANAGEMENT

1. SHOW STOCKPILE LOCATIONS ON PLANS. LOCATE EARTHEN-MATERIAL STOCKPILE AREAS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS, SEDIMENT BASINS, PERIMETER SEDIMENT CONTROLS AND SURFACE WATERS UNLESS IT CAN BE SHOWN NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
2. PROTECT STOCKPILE WITH SILT FENCE INSTALLED ALONG TOE OF SLOPE WITH A MINIMUM OFFSET OF FIVE FEET FROM THE TOE OF STOCKPILE.
3. PROVIDE STABLE STONE ACCESS POINT WHEN FEASIBLE.
4. STABILIZE STOCKPILE WITHIN THE TIMEFRAMES PROVIDED ON THIS SHEET AND IN ACCORDANCE WITH THE APPROVED PLAN AND ANY ADDITIONAL REQUIREMENTS. SOIL STABILIZATION IS DEFINED AS VEGETATIVE, PHYSICAL OR CHEMICAL COVERAGE TECHNIQUES THAT WILL RESTRAIN ACCELERATED EROSION ON DISTURBED SOILS FOR TEMPORARY OR PERMANENT CONTROL NEEDS.

CONCRETE WASHOUTS

1. DO NOT DISCHARGE CONCRETE OR CEMENT SLURRY FROM THE SITE.
2. DISPOSE OF, OR RECYCLE SETTLED, HARDENED CONCRETE RESIDUE IN ACCORDANCE WITH LOCAL AND STATE SOLID WASTE REGULATIONS AND AT AN APPROVED FACILITY.
3. MANAGE WASHOUT FROM MORTAR MIXERS IN ACCORDANCE WITH THE ABOVE ITEM AND IN ADDITION PLACE THE MIXER AND ASSOCIATED MATERIALS ON IMPERVIOUS BARRIER AND WITHIN LOT PERIMETER SILT FENCE.
4. INSTALL TEMPORARY CONCRETE WASHOUTS PER LOCAL REQUIREMENTS, WHERE APPLICABLE. IF AN ALTERNATE METHOD OR PRODUCT IS TO BE USED, CONTACT YOUR APPROVAL AUTHORITY FOR REVIEW AND APPROVAL. IF LOCAL STANDARD DETAILS ARE NOT AVAILABLE, USE ONE OF THE TWO TYPES OF TEMPORARY CONCRETE WASHOUTS PROVIDED ON THIS DETAIL.
5. DO NOT USE CONCRETE WASHOUTS FOR DEWATERING OR STORING DEFECTIVE CURB OR SIDEWALK SECTIONS. STORMWATER ACCUMULATED WITHIN THE WASHOUT MAY NOT BE PUMPED INTO OR DISCHARGED TO THE STORM DRAIN SYSTEM OR RECEIVING SURFACE WATERS. LIQUID WASTE MUST BE PUMPED OUT AND REMOVED FROM PROJECT.
6. LOCATE WASHOUTS AT LEAST 50 FEET FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS IT CAN BE SHOWN THAT NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE. AT A MINIMUM, INSTALL PROTECTION OF STORM DRAIN INLET(S) CLOSEST TO THE WASHOUT WHICH COULD RECEIVE SPILLS OR OVERFLOW.
7. LOCATE WASHOUTS IN AN EASILY ACCESSIBLE AREA, ON LEVEL GROUND AND INSTALL A STONE ENTRANCE PAD IN FRONT OF THE WASHOUT. ADDITIONAL CONTROLS MAY BE REQUIRED BY THE APPROVING AUTHORITY.
8. INSTALL AT LEAST ONE SIGN DIRECTING CONCRETE TRUCKS TO THE WASHOUT WITHIN THE PROJECT LIMITS. POST SIGNAGE ON THE WASHOUT ITSELF TO IDENTIFY THIS LOCATION.
9. REMOVE LEAVINGS FROM THE WASHOUT WHEN AT APPROXIMATELY 75% CAPACITY TO LIMIT OVERFLOW EVENTS. REPLACE THE TARP, SAND BAGS OR OTHER TEMPORARY STRUCTURAL COMPONENTS WHEN NO LONGER FUNCTIONAL. WHEN UTILIZING ALTERNATIVE OR PROPRIETARY PRODUCTS, FOLLOW MANUFACTURER'S INSTRUCTIONS.
10. AT THE COMPLETION OF THE CONCRETE WORK, REMOVE REMAINING LEAVINGS AND DISPOSE OF IN AN APPROVED DISPOSAL FACILITY. FILL PIT, IF APPLICABLE, AND STABILIZE ANY DISTURBANCE CAUSED BY REMOVAL OF WASHOUT.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. STORE AND APPLY HERBICIDES, PESTICIDES AND RODENTICIDES IN ACCORDANCE WITH LABEL RESTRICTIONS.
2. STORE HERBICIDES, PESTICIDES AND RODENTICIDES IN THEIR ORIGINAL CONTAINERS WITH THE LABEL, WHICH LISTS DIRECTIONS FOR USE, INGREDIENTS AND FIRST AID STEPS IN CASE OF ACCIDENTAL POISONING.
3. DO NOT STORE HERBICIDES, PESTICIDES AND RODENTICIDES IN AREAS WHERE FLOODING IS POSSIBLE OR WHERE THEY MAY SPILL OR LEAK INTO WELLS, STORMWATER DRAINS, GROUND WATER OR SURFACE WATER. IF A SPILL OCCURS, CLEAN AREA IMMEDIATELY.
4. DO NOT STOCKPILE THESE MATERIALS ONSITE.

HAZARDOUS AND TOXIC WASTE

1. CREATE DESIGNATED HAZARDOUS WASTE COLLECTION AREAS ON-SITE.
2. PLACE HAZARDOUS WASTE CONTAINERS UNDER COVER OR IN SECONDARY CONTAINMENT.
3. DO NOT STORE HAZARDOUS CHEMICALS, DRUMS OR BAGGED MATERIALS DIRECTLY ON THE GROUND.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

1. CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
2. DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL. IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
6. SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
9. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

LIME & FERTILIZATION SCHEDULE

TEMPORARY SEED SCHEDULE (Jan 1 - May 1, Aug 15 - Dec 1)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
ANNUAL RYE GRASS	120-LBS PER 1-ACRE	85%	1%
ANNUAL LESPEDEZA (KOBE)	50-LBS PER 1-ACRE		

TEMPORARY SEED SCHEDULE (May 1 - Aug 15)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
GERMAN MILLET	60-LBS PER 1-ACRE	85%	1%

PERMANENT SEED SCHEDULE (May 1 - Aug 15)*

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
CELEBRATION BERMUDA SEED (HULLED)	200-LBS PER 1-ACRE	95%	LESS THAN 1%

*NOTE: PERMANENT SEEDING FOR THIS PROJECT MUST BE DONE BETWEEN MAY 1 AND AUGUST 15.

NOTES:

1. ENSURE SOIL COMPACTION REQUIREMENTS ARE MET PRIOR TO SEEDING. MINIMUM COMPACTION REQUIRED IS 95% OF THE STANDARD PROCTOR DENSITY FOR SLOPES UP TO 5%. MINIMUM COMPACTION REQUIRED IS 90% MAXIMUM DRY DENSITY ELSEWHERE INCLUDING ON SLOPES 4:1 OR STEEPER. REFER TO SPECIFICATION SECTION 31 20 00.
2. SOIL AMENDMENTS: ADD 2,000-LBS/ ACRE GROUND AGRICULTURAL LIMESTONE AND 750-LBS/ACRE 10-10-10 FERTILIZER TO THE SOIL BEFORE SEEDING.
3. MULCH: APPLY 4,000-LBS/ACRE STRAW OVER SEED. ANCHOR STRAW MULCH BY CRIMPING INTO TOPSOIL BY SUITABLE MECHANICAL EQUIPMENT.
4. HYDROSEED ALL SLOPES 3:1 OR STEEPER.
5. PROTECT SEEDED AREAS 3:1 SLOPE/GRADE OR STEEPER AGAINST EROSION BY PROVIDING EROSION-CONTROL BLANKETS INSTALLED AND STAPLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. PROTECT SEEDED AREAS LESS THAN 3:1 SLOPE/GRADE AGAINST EROSION BY SPREADING STRAW MULCH AFTER COMPLETION OF SEEDING OPERATIONS. SPREAD UNIFORMLY AT A MINIMUM RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET 1-1/2 INCHES LOOSE DEPTH OVER SEEDED AREAS. SPREAD BY HAND, BLOWER, OR OTHER SUITABLE EQUIPMENT.
7. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
8. SATISFACTORY LAWN: SEEDED LAWNS SHALL BE CONSIDERED SATISFACTORY/ACCEPTABLE PROVIDED REQUIREMENTS, INCLUDING MAINTENANCE, HAVE BEEN MET AND A HEALTHY, UNIFORM, CLOSE STAND OF GRASS IS ESTABLISHED, FREE OF WEEDS, BARE SPOTS EXCEEDING 5 BY 5 INCHES AND SURFACE IRREGULARITIES.

GRASS SEEDING SCHEDULE AND NOTES

N.T.S.

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NORTH CAROLINA PROFESSIONAL SEAL 034374 09/12/2024 ENGINEER Brandon L. McLamb

Construction Documents

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY
5410 TRINITY RD, SUITE 102
RALEIGH, NC 27607
OFFICE: 919.866.4935
TG CONTACT: BRANDON MCLAMB
TG PROJECT #: 64339
NC LICENSE NO. C-1652

Lenoir County
EB Frink Middle School
405 North Charles Street
La Grange NC, 28511

ENERGY STAR PARTNER

1	04/17/2025	ADDENDUM 3

ISSUE DATE: 04/17/2025
PROJECT #: 02303.000
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CHECKED BY: BLM

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EROSION CONTROL NOTES & DETAILS

C2.10

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CONSTRUCTION DOCUMENTS FOR:
EB FRINK MIDDLE SCHOOL
405 N CHARLES ST, LA GRANGE, NORTH CAROLINA 28551

UTILITY / MUNICIPALITY CONTACTS:

A. TOWN OF LA GRANGE
PLANNING DEPARTMENT
203 S CENTER STREET
LA GRANGE, NC 28551
(252) 566-3186

B. BURIED CABLE LOCATION
NC 811

C. DUKE ENERGY
(866) 582-6345

CONSULTANT CONTACTS:

OWNER
TOWN OF LA GRANGE
CONTACT:
203 S CENTER STREET
LA GRANGE NC 28551
PHONE: 252-566-2201

SITE ENGINEER/ LANDSCAPE
TIMMONS GROUP
CONTACT: BRANDON MCLAMB
5410 TRINITY ROAD, SUITE 102
RALEIGH, NC 27607
PHONE: 919-866-4935

ARCHITECT
SfL+a ARCHITECTS
CONTACT: DOTTIE SLOAN
333 FAYETVILLE STREET, SUITE 225
RALEIGH, NC 27601
PHONE: 919-573-6338

SITE DATA TABLE	
PROJECT NAME:	EB FRINK MS
SITE PLAN NUMBER	(TBD)
PROPERTY OWNER/ DEVELOPER:	TOWN OF LA GRANGE 203 S CENTER STREET LA GRANGE, NC 28511
PIN ID:	3567-13-8038
DEED REFERENCE:	DB. 1521 PG. 0579
DEED ACRES:	59.69 ACRES
PROPERTY ADDRESS:	405 N CHARLES ST LA GRANGE, NC 28551
TOWNSHIP:	LA GRANGE
CURRENT PROPERTY ZONING:	AR
PROPOSED PROPERTY ZONING:	R-10
CURRENT USE:	VACANT
PROPOSED USE:	EDUCATIONAL FACILITY
DISTURBED AREA:	42.00 ACRES (± 1,829,464 SF)
RIVER BASIN:	NEUSE RIVER
SURFACE WATER CLASSIFICATION:	WS-IV; NSW
BUILDING/STRUCTURE SETBACKS:	
FRONT:	35-FT
SIDE:	20-FT
REAR:	30-FT
LANDSCAPE BUFFERS:	
ADJACENT RESIDENTIAL (SOUTH & WEST):	40-FT
ADJACENT LIGHT INDUSTRIAL:(NORTH)	10-FT
STREET YARD:	N/A
BUILDING SUMMARY:	
PROPOSED BUILDING SQUARE FEET:	96,319 SF
BUILDING COVERAGE:	11% OF TOTAL SITE (19.5 ACRES)
NUMBER OF STORIES:	1 STORY
MAXIMUM PROPOSED BUILDING HEIGHT	33' - 0"
PARKING SUMMARY:	
REQUIRED VEHICULAR SPACES:	3 SPACES PER CLASSROOM 3 SPACE x 41 CLASSROOMS = 123 SPACES REQ.
PARKING SPACES PROVIDED:	123 SPACES
ADA PARKING SUMMARY:	
ADA SPACES REQUIRED:	5 SPACES REQUIRED
ADA SPACES PROVIDED:	6 SPACES PROVIDED INCLUDING 1 VAN ACCESSIBLE SPACE
UTILITY PROVIDERS:	
ELECTRIC PROVIDER:	TOWN OF LA GRANGE (PUBLIC)
WATER PROVIDER:	TOWN OF LA GRANGE (PUBLIC)
SEWER PROVIDER:	TOWN OF LA GRANGE (PUBLIC)
GAS PROVIDER:	TOWN OF LA GRANGE (PUBLIC)

VICINITY MAP
1" = 1000'

SITE IMPROVEMENT TABLE:	
LENGTH OF SIDWALK:	2,145 LF
LENGTH OF WATERLINE	
4" DUCTILE IRON:	282 LF
6" DUCTILE IRON:	173 LF
8" DUCTILE IRON:	1,634 LF
12" DUCTILE IRON:	357 LF
LENGTH OF SEWER	
6" PVC:	518 LF
8" PVC:	345 LF
LENGTH OF STORM SEWER	
8" HDPE:	113 LF
12" HDPE:	544 LF
15" HDPE:	177 LF
18" HDPE:	346 LF
24" HDPE:	692 LF
30" HDPE:	163 LF
36" HDPE:	116 LF

SITE IMPERVIOUS TABLE:	
EXISTING IMPERVIOUS:	0.00 ACRES (± 00,000 SF)
PROPOSED IMPERVIOUS:	4.77 ACRES (± 207,781 SF)

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	OVERALL EXISTING CONDITIONS & DEMOLITION PLAN
C1.1	EXISTING CONDITIONS & DEMOLITION PLAN
C1.2	EXISTING CONDITIONS & DEMOLITION PLAN
C2.0	OVERALL EROSION CONTROL PLAN - PHASE I
C2.1	EROSION CONTROL PLAN - PHASE I
C2.2	EROSION CONTROL PLAN - PHASE I
C2.3	EROSION CONTROL PLAN - PHASE I
C2.4	OVERALL EROSION CONTROL PLAN - PHASE II
C2.5	EROSION CONTROL PLAN - PHASE II
C2.6	EROSION CONTROL PLAN - PHASE II
C2.7	EROSION CONTROL PLAN - PHASE II
C2.8	EROSION CONTROL NOTES & DETAILS
C2.9	EROSION CONTROL NOTES & DETAILS
C2.10	EROSION CONTROL NOTES & DETAILS
C2.11	NCG01
C3.0	OVERALL SITE LAYOUT PLAN
C3.1	SITE LAYOUT PLAN
C3.2	SIGNAGE & STRIPING PLAN
C3.3	SITE NOTES & DETAILS
C4.0	OVERALL UTILITY PLAN
C4.1	UTILITY PLAN
C4.2	UTILITY PLAN
C4.3	WATERLINE PROFILES
C4.4	SANITARY SEWER PROFILES
C4.5	UTILITY NOTES & DETAILS
C4.6	UTILITY NOTES & DETAILS
C5.0	GRADING & DRAINAGE PLAN
C5.1	SPOT ELEVATION PLAN
C5.2	STORM SEWER PROFILES & SCHEDULES
C5.3	DRAINAGE NOTES & DETAILS
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE NOTES AND DETAILS

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COVER SHEET

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

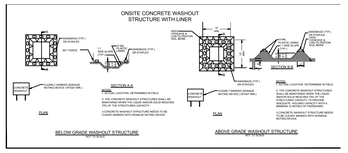
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

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RALEIGH, NC 27607
OFFICE: 919.866.4935
TG CONTACT: BRANDON MCLAMB
TG PROJECT #: 64339
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Lenoir County

EB Frink Middle School

405 North Charles Street
La Grange NC, 28511

ENERGY STAR PARTNER

1	04/17/2025	ADDENDUM 3

ISSUE DATE: 04/17/2025
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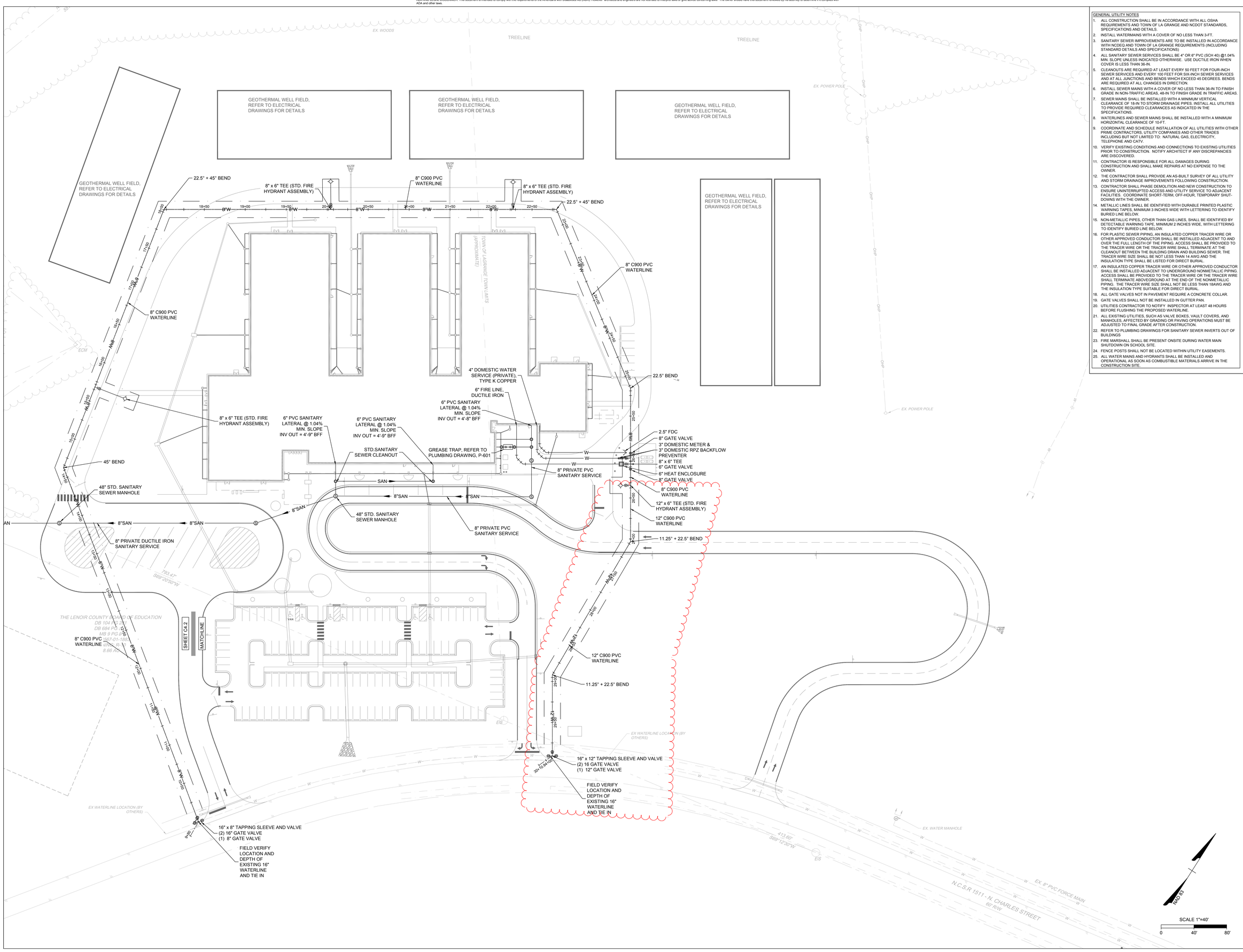

GENERAL UTILITY NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL OSHA REQUIREMENTS AND TOWN OF LA GRANGE AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 3-FT.
3. SANITARY SEWER IMPROVEMENTS ARE TO BE INSTALLED IN ACCORDANCE WITH NCDEQ AND TOWN OF LA GRANGE REQUIREMENTS (INCLUDING STANDARD DETAILS AND SPECIFICATIONS)
4. ALL SANITARY SEWER SERVICES SHALL BE 4" OR 6" PVC (SCH 40) @1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 36-IN.
5. CLEANOUTS ARE REQUIRED AT LEAST EVERY 50 FEET FOR FOUR-INCH SEWER SERVICES AND EVERY 100 FEET FOR SIX-INCH SEWER SERVICES AND AT ALL JUNCTIONS AND BENDS WHICH EXCEED 45 DEGREES. BENDS ARE REQUIRED AT ALL CHANGES IN DIRECTION.
6. INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 36-IN TO FINISH GRADE IN NON-TRAFFIC AREAS, 48-IN TO FINISH GRADE IN TRAFFIC AREAS.
7. SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 18-IN TO STORM DRAINAGE PIPES. INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
8. WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
9. COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
10. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
11. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
12. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
13. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
14. METALLIC LINES SHALL BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3 INCHES WIDE WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
15. NON-METALLIC PIPES, OTHER THAN GAS LINES, SHALL BE IDENTIFIED BY DETECTABLE WARNING TAPE, MINIMUM 2 INCHES WIDE, WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
16. FOR PLASTIC SEWER PIPING, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AWG AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.
17. AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVEGROUND AT THE END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18AWG AND THE INSULATION TYPE SUITABLE FOR DIRECT BURIAL.
18. ALL GATE VALVES NOT IN PAVEMENT REQUIRE A CONCRETE COLLAR.
19. GATE VALVES SHALL NOT BE INSTALLED IN GUTTER PAN.
20. UTILITIES CONTRACTOR TO NOTIFY INSPECTOR AT LEAST 48 HOURS BEFORE FLUSHING THE PROPOSED WATERLINE.
21. ALL EXISTING UTILITIES, SUCH AS VALVE BOXES, VAULT COVERS, AND MANHOLES, AFFECTED BY GRADING OR PAVING OPERATIONS MUST BE ADJUSTED TO FINAL GRADE AFTER CONSTRUCTION.
22. REFER TO PLUMBING DRAWINGS FOR SANITARY SEWER INVERTS OUT OF BUILDINGS
23. FIRE MARSHALL SHALL BE PRESENT ONSITE DURING WATER MAIN SHUTDOWN ON SCHOOL SITE.
24. FENCE POSTS SHALL NOT BE LOCATED WITHIN UTILITY EASEMENTS.
25. ALL WATER MAINS AND HYDRANTS SHALL BE INSTALLED AND OPERATIONAL AS SOON AS COMBUSTIBLE MATERIALS ARRIVE IN THE CONSTRUCTION SITE.

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UTILITY PLAN

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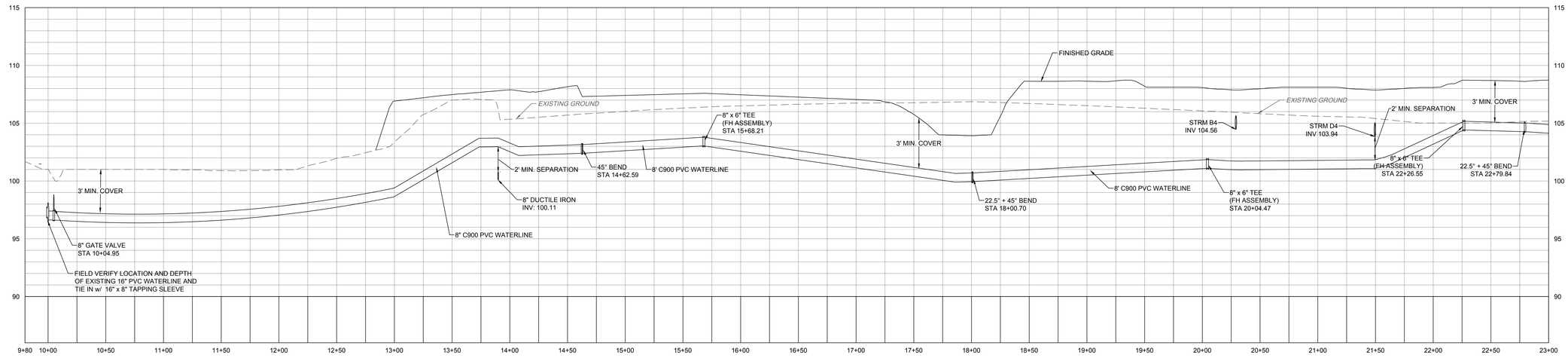
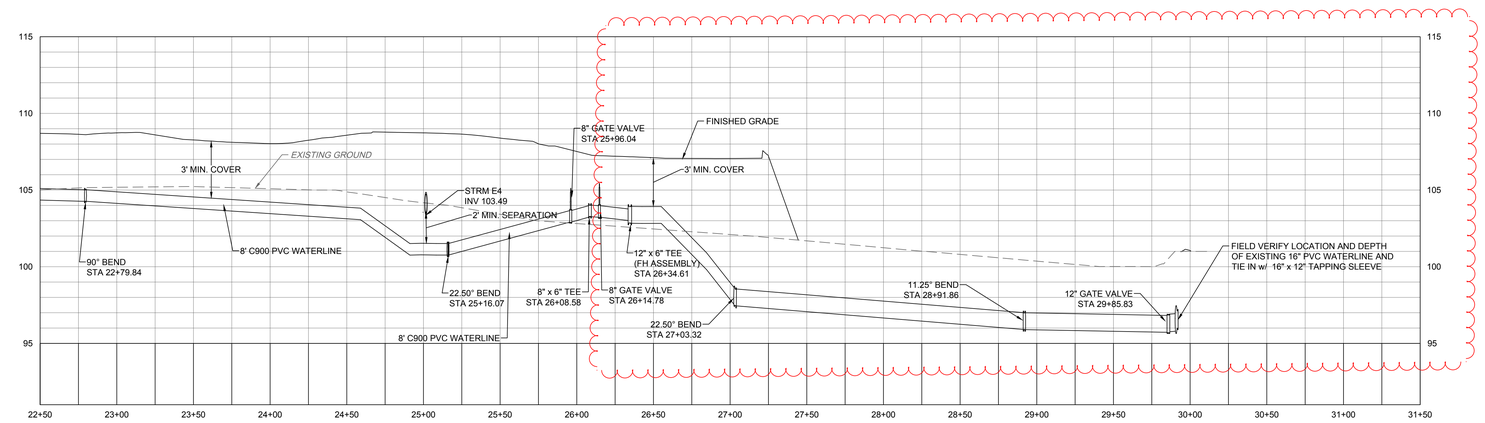


8IN PVC WATERLINE (PUBLIC) PROFILE - STA. 9+80 TO 23+00
Horz: 1" = 40'
Vert: 1" = 4'



8IN PVC WATERLINE (PUBLIC) PROFILE - STA. 22+50 TO 31+50
Horz: 1" = 40'
Vert: 1" = 4'

KEY

EX. GRADE

FINAL GRADE

4
0
0
40
PROFILE SCALE

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WATERLINE PROFILES

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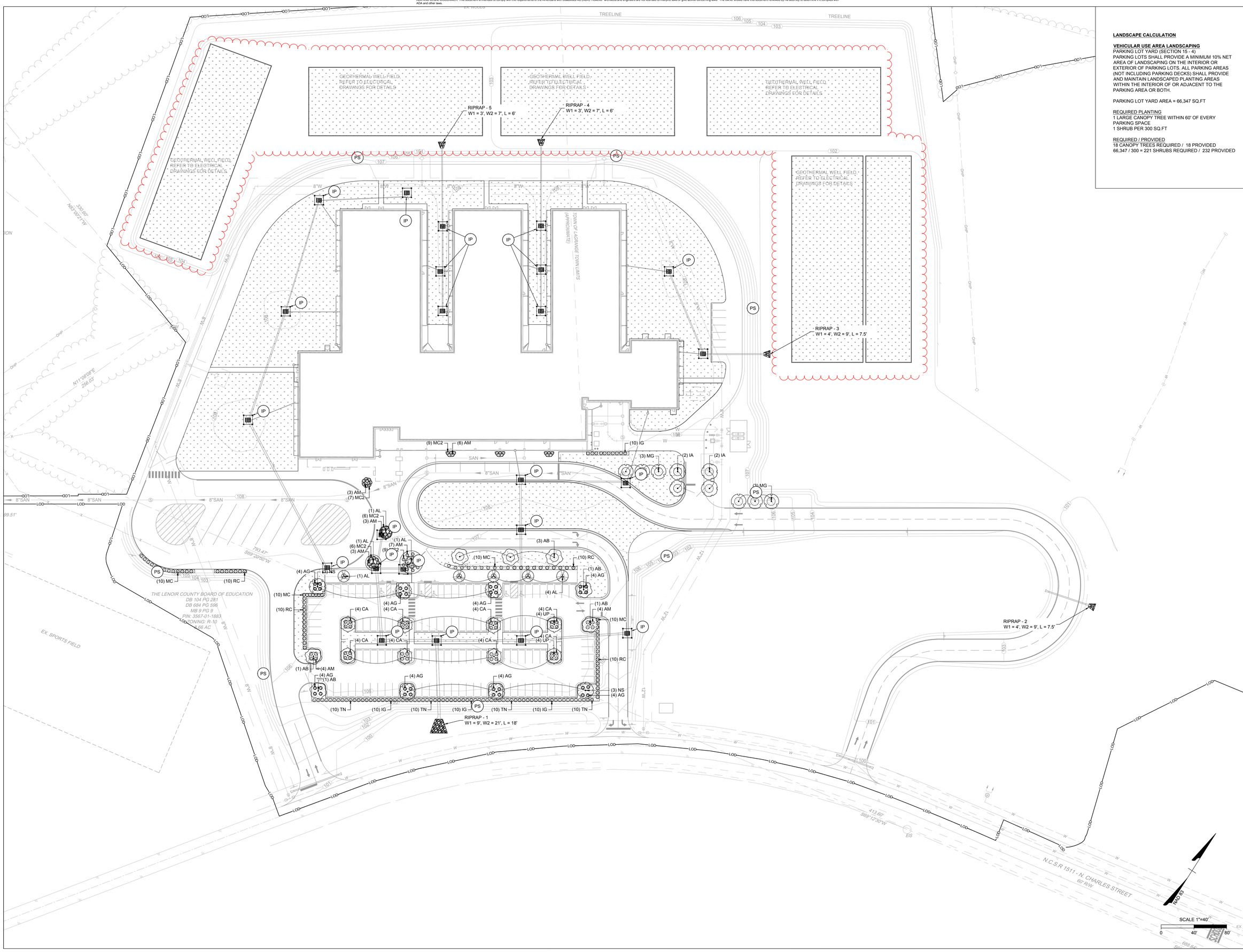

LANDSCAPE CALCULATION

VEHICULAR USE AREA LANDSCAPING
PARKING LOT YARD (SECTION 15 - 4)
PARKING LOTS SHALL PROVIDE A MINIMUM 10% NET AREA OF LANDSCAPING ON THE INTERIOR OR EXTERIOR OF PARKING LOTS. ALL PARKING AREAS (NOT INCLUDING PARKING DECKS) SHALL PROVIDE AND MAINTAIN LANDSCAPED PLANTING AREAS WITHIN THE INTERIOR OF OR ADJACENT TO THE PARKING AREA OR BOTH.

PARKING LOT YARD AREA = 66,347 SQ.FT

REQUIRED PLANTING
1 LARGE CANOPY TREE WITHIN 60' OF EVERY PARKING SPACE
1 SHRUB PER 300 SQ.FT

REQUIRED / PROVIDED
18 CANOPY TREES REQUIRED / 18 PROVIDED
66,347 / 300 = 221 SHRUBS REQUIRED / 232 PROVIDED

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La Grange NC, 28511

ENERGY STAR PARTNER

1	04/17/2025	ADDENDUM 3

ISSUE DATE: 04/17/2025
PROJECT #: 02303.000
DRAWN BY: SFF
CHECKED BY: KTB

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LANDSCAPE PLAN

SCALE 1"=40'
0 40' 80'

L1.0

Autodesk Docs://02303.000 Frink MS Lenoir Cty/02303.000_Frink MS Lenoir Cty_Arch_R24.rvt
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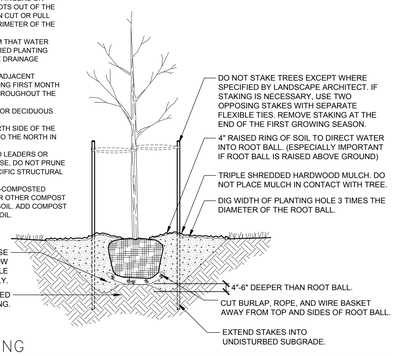
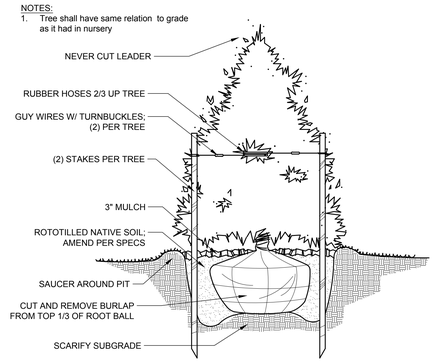
NOTES:
1. WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6" (10-15CM) OVER THE ENTIRE AREA.
2. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
3. DURING THE DESIGN PHASE, CONFIRM THAT WATER DRAINS OUT OF THE SOIL; USE LOWERED PLANTING HOLE DEPTH AND DESIGN ALTERNATE DRAINAGE SYSTEM AS REQUIRED.
4. THOROUGHLY SOAK ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
5. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
6. DO NOT WRAP TRUNK; MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
7. AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS
8. BEFORE PLANTING, ADD 3-4" OF WELL-COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL SOIL.

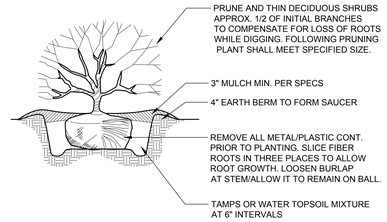


1 TREE PLANTING
NTS

NOTES:
1. Tree shall have same relation to grade as it had in nursery



2 EVERGREEN PLANTING
NTS



NOTES:
1. SOIL MIX: 1/3 ORGANIC MATTER, 2/3 EXIST SOIL.
2. WIDTH OF PLANT PIT: SANDY SOIL, 24" WIDER THAN PLANT BALL; CLAY SOIL, 12" WIDER THAN PLANT BALL
3. FOR PLANTING AREAS WHERE SOIL HAS BEEN COM-PACTED BY EQUIP. CONTACT LA PRIOR TO PLANTING.
4. FOR CAMELLIAS, RHODOS, AZALEAS, AND LAURELS: SOIL MIX, 2/3 ORGANIC AND 1/3 EXISTING SOIL
5. SHRUB SHALL BEAR SAME RELATIONSHIP TO GRADE AS IT DID PRIOR TO DIGGING.

3 SHRUB PLANTING
NTS

GENERAL PLANTING NOTES:

1. ALL PLANT MATERIALS TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK ANSI.Z60
2. SUBSTITUTIONS OF PLANT MATERIALS SPECIFIED CAN ONLY OCCUR WITH PRIOR APPROVAL BY LANDSCAPE ARCHITECT.
3. CONTRACTOR ENGAGED IN LANDSCAPE IMPLEMENTATION SHALL BE A LANDSCAPE CONTRACTOR REGISTERED IN THE STATE OF NORTH CAROLINA.
4. PERFORM SOIL TEST IN ALL NEW PLANT BEDS AND AMEND SOILS AS RECOMMENDED.
5. INSTALL PLANTS AND MULCH PLANT BEDS WITH 3" SHREDDED HARDWOOD MULCH.
6. ALL TREES TO BE INSTALLED BETWEEN OCTOBER 1 AND MARCH 31.
7. CONTRACTOR TO GUARANTEE PLANT MATERIALS FOR A ONE YEAR PERIOD FOLLOWING SUBSTANTIAL COMPLETION.
8. AREAS DAMAGED BY ACTIVITIES OF CONTRACTOR SHALL BE RE-ESTABLISHED TO PRE-DISTURBANCE CONDITION AT NO ADDITIONAL COST TO THE OWNER.
9. USE HERBICIDES, PESTICIDES, AND FERTILIZER IN A MANNER CONSISTENT WITH THE FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT AND IN ACCORDANCE WITH LABEL RESTRICTIONS.
10. CONTRACTOR SHALL PROTECT ALL EXISTING VEGETATION TO REMAIN THROUGHOUT THE DURATION OF CONSTRUCTION.
11. CONTRACTOR SHALL INSURE THAT ALL PLANT MATERIAL IS FREE OF FIRE ANTS PRIOR TO INSTALLATION.
12. LANDSCAPE ARCHITECT / OWNER SHALL APPROVE PLACEMENT OF TREES PRIOR TO PLANTING.
13. PLANT SCHEDULE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY QUANTITIES SHOWN ON PLANS.

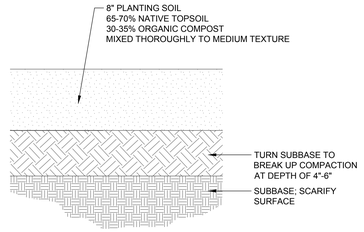
MAINTENANCE PLAN:

THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTING AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE, BUT NOT LIMITED TO:

A. FERTILIZATION: FERTILIZATION LAWN AREAS TWICE PER YEAR (ONCE IN EARLY MARCH AND ONCE IN MID-SEPTEMBER) PER SOIL TESTS.
B. PRUNING: PRUNING OF TREES SHALL BE LIMITED TO REMOVAL OF DEAD BRANCHES OR THE REMOVAL OF BRANCHES FOR THE FIRST 8' IN ORDER TO MAINTAIN CLEAR SIGHT LINES AND TO ENHANCE SAFETY. THE PRUNING OF SHRUBS SHALL BE LIMITED TO MAINTAINING THE NATURAL SHAPE OF THE PLANT AND THE REMOVAL OF DEAD WOOD.
C. MULCHING: MULCHING SHALL BE MAINTAINED AT 2-3" DEPTH IN PLANT BEDS AND REAPPLIED EVERY 2 YEARS OR AS NEEDED.
D. PROTECTION OF THE ROOT ZONES FROM EQUIPMENT, CONSTRUCTION AND RELATED MATERIALS. HEAVY EQUIPMENT AND VEHICLES SHALL BE KEPT OUT OF ESTABLISHED PLANT BEDS.
E. WATERING: PLANTS ARE TO BE REGULARLY WATERED FOR THE FIRST 6 MONTHS. ONCE ESTABLISHED MANUAL WATERING IS NOT TO OCCUR UNLESS THE HEALTH OF THE PLANT IS THREATENED BY LACK OF RAINFALL.

FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MY CONSTITUTE A VIOLATION OF THE LAND DEVELOPMENT ORDINANCE AND MAY RESULT IN FINES.

PLANT SCHEDULE				
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE
DECIDUOUS TREES				
AB	7	ACER RUBRUM `BRANDYWINE`	BRANDYWINE RED MAPLE	2.5" CAL.
AL	8	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	2.5" CAL.
NS	6	NYSSA SYLVATICA	TUPELO	2.5" CAL.
UP	8	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2.5" CAL.
EVERGREEN TREES				
IA	4	ILEX OPACA	AMERICAN HOLLY	2.5" CAL.
MG	6	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM DWARF SOUTHERN MAGNOLIA	2.5" CAL.
SHRUBS				
AG	32	ABELIA X GRANDIFLORA	GLOSSY ABELIA	24" HT./SPRD.
AM	30	AZALEA ENCORE 'AUTUMN CHIFFON'	ENCORE AZALEA	24" HT./SPRD.
CA	32	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	24" HT./SPRD.
IG	40	ILEX GLABRA	INKBERRY HOLLY	24" HT./SPRD.
MC2	37	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	24" HT./SPRD.
MC	40	MYRICA CERIFERA	WAX MYRTLE	24" HT./SPRD.
RC	40	RHODODENDRON CAROLINIANUM	CAROLINA RHODODENDRON	24" HT./SPRD.
TN	40	THUJA OCCIDENTALIS 'AMERICAN PILLAR'	AMERICAN PILLAR ARBORVITAE	24" HT./SPRD.
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	
GROUND COVERS				
	216,806 SF	CYNODON DACTYLON	BERMUDAGRASS	
	7,572 SF	MULCH	HARDWOOD MULCH	



NOTES:
1. All material to be free of toxic substances, weed seed, stones, sticks or other material harmful to plant growth. Topsoil: ph range of 6.0 to 7.0, min. 6% organic matter.
2. Compost: well-composted, stable, weed-free organic matter, ph range of 5.5 to 8.
3. Submit soil sample for analysis ... provide amendments per recommendations.
4. Remove any debris, rocks, or clumps 2" or larger.
5. Do not spread if planting soil, topsoil or subgrade is frozen, muddy, or excessively wet.

4 PLANTING SOIL PROFILE
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NORTH CAROLINA PROFESSIONAL SEAL 034374 09/12/2024 ENGINEER Brandon L. McLamb

Construction Documents

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY
5410 TRINITY RD, SUITE 102
RALEIGH, NC 27607
OFFICE: 919.866.4935
TG CONTACT: BRANDON MCLAMB
TG PROJECT #: 64339
NC LICENSE NO. C-1652

Lenoir County
EB Frink Middle School
405 North Charles Street
La Grange NC, 28511

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LANDSCAPE NOTES & DETAILS

L1.1

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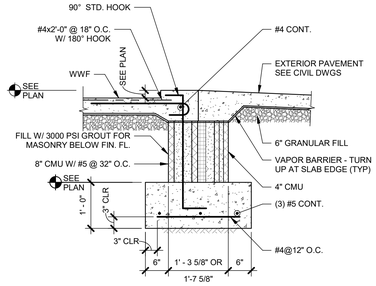
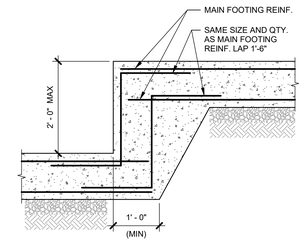


20 S-301 DOOR OPENING @ DEPRESSED SLAB
3/4" = 1'-0"



19 S-301 STEPPED FOOTING DETAIL
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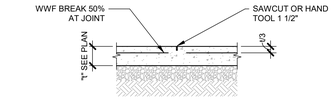

18 S-301 TYPICAL SLAB ON GRADE DETAIL
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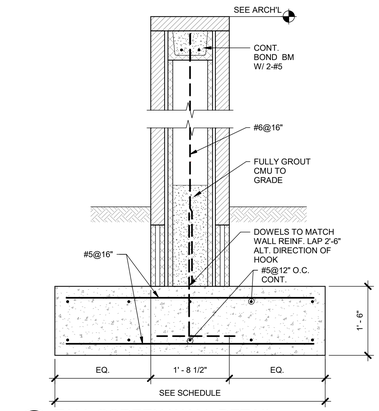

17 S-301 TALL SCREEN WALL DETAIL
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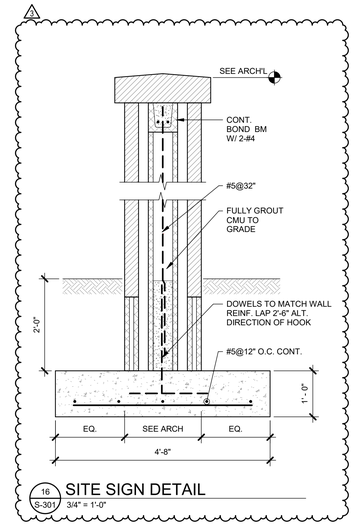

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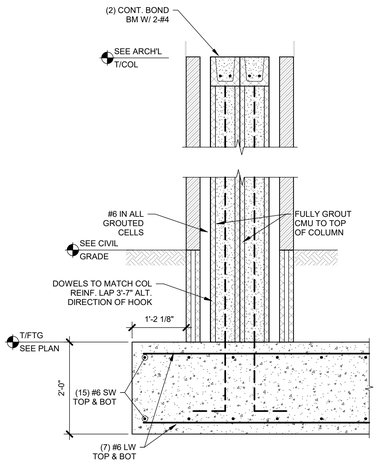

15 S-301 CMU COLUMN FOOTING DETAIL
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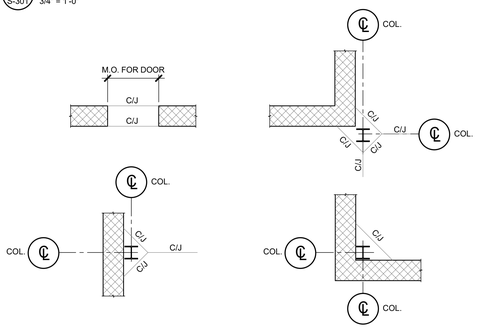

14 S-301 CONTROL JOINT DETAILS
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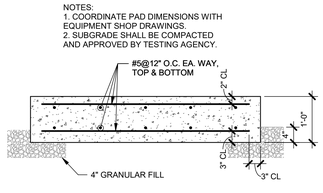

13 EXTERIOR EQUIPMENT PAD
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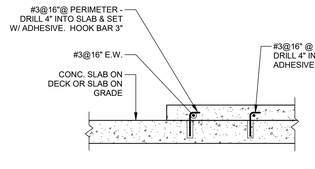

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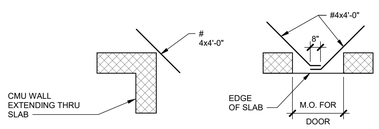

11 S-301 SLAB PLAN @ RE-ENTRANT CORNER
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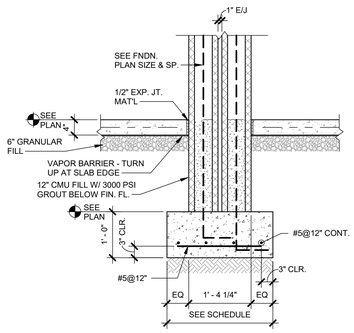

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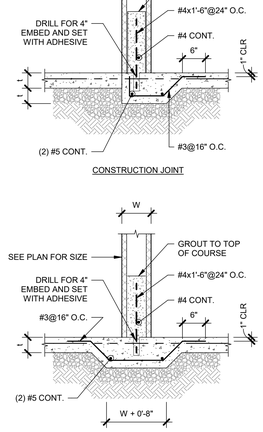

9 S-301 TYPICAL THICKENED SLAB DETAIL
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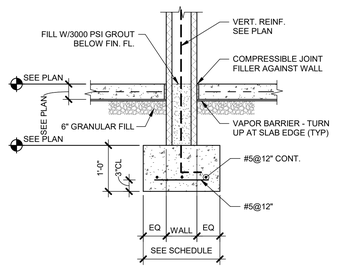

8 S-301 INTERIOR WALL FOOTING DETAIL
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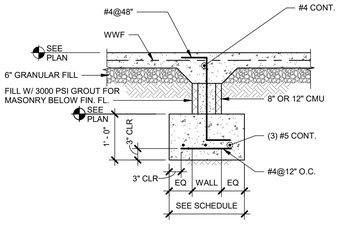

7 S-301 TYPICAL INTERIOR DOOR OPENING
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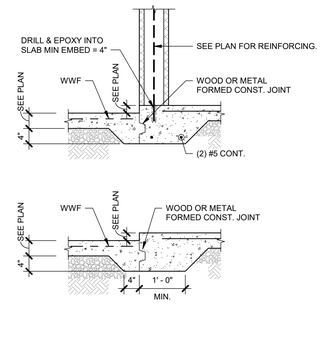

6 S-301 TYPICAL DEPRESSED SLAB
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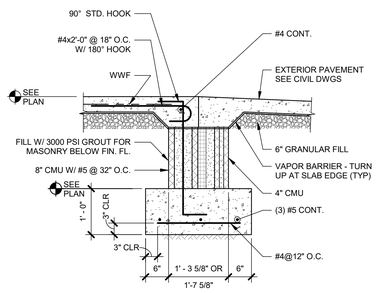
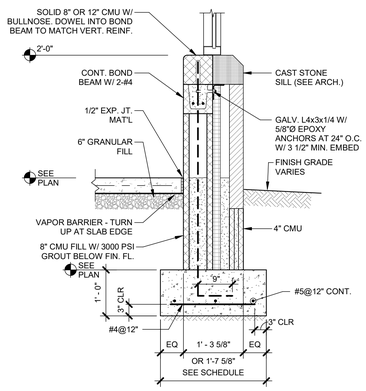
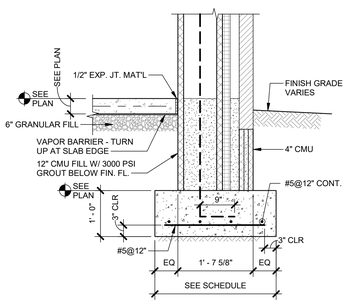


5 S-301 TYPICAL DOOR OPENING
3/4" = 1'-0"



4 S-301 EXTERIOR WALL FOOTING DETAIL
3/4" = 1'-0"



3 S-301 EXTERIOR WALL FOOTING DETAIL
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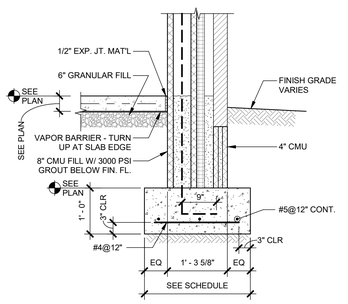

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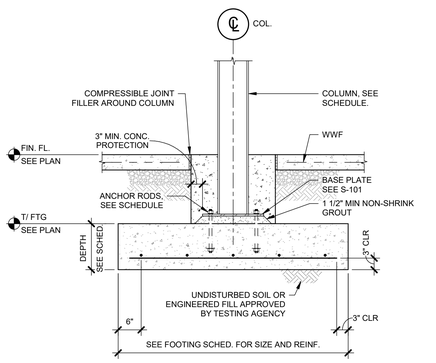

1 S-301 STEEL COLUMN FOOTING DETAIL
3/4" = 1'-0"

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Raleigh, North Carolina 27607
919.832.5587
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NORTH CAROLINA PROFESSIONAL SEAL 037412 ENGINEER TIMOTHY K. WILTON
9/12/24

Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
1	2/18/25	BID SET/AGENCY COM.
3	4/17/25	ADDENDUM 3

ISSUE DATE: 09/12/2024
PROJECT #: 02303.000
DRAWN BY: RJT
CHECKED BY: TH

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FOUNDATION DETAILS

S-301

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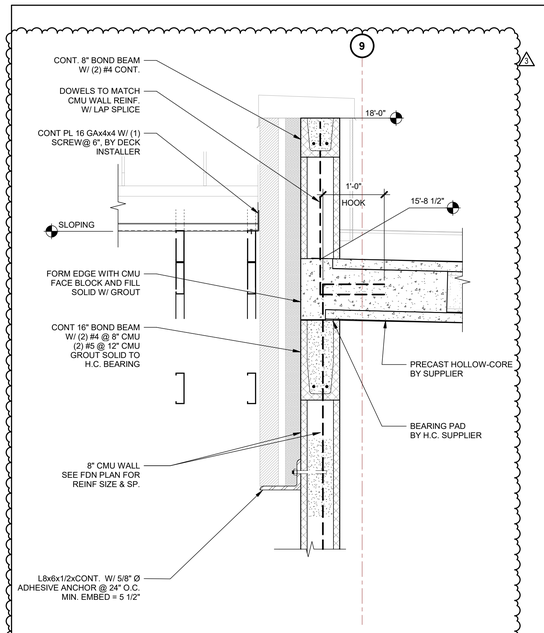

12 S-403 DETAIL AT RETURN PARAPET
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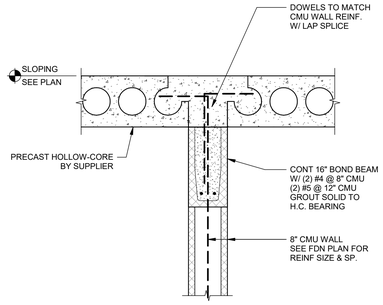

11 S-403 HOLLOW-CORE DETAIL AT SHEAR WALL
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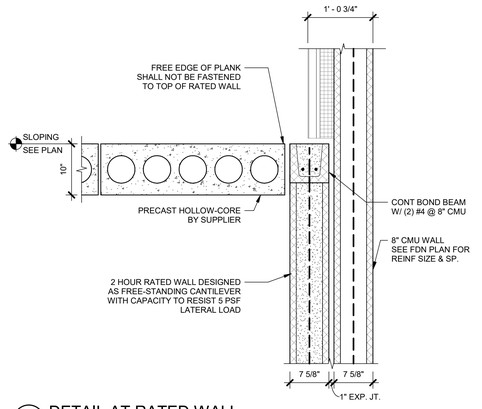

10 S-403 DETAIL AT RATED WALL
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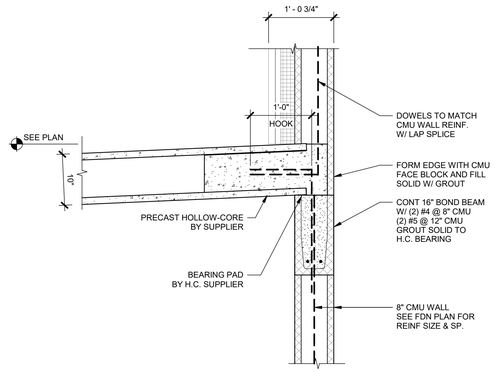

9 S-403 HOLLOW-CORE DETAIL
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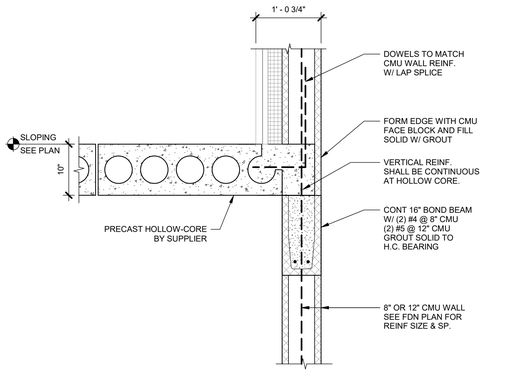
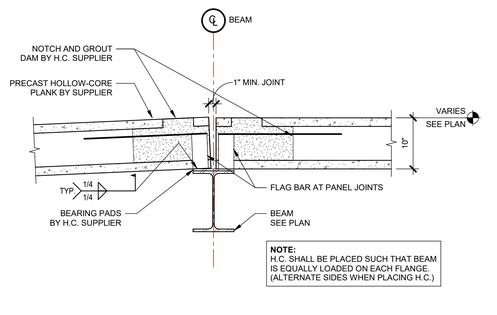
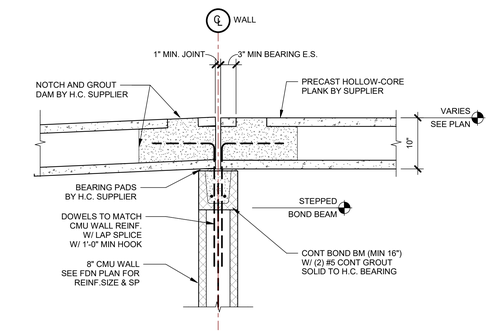


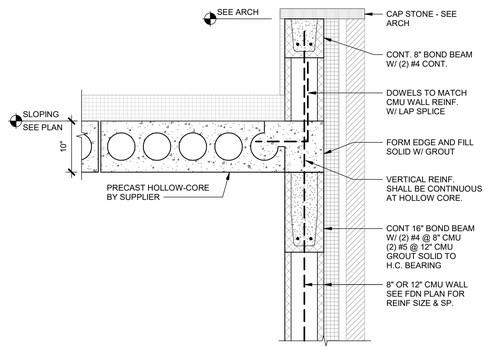
8 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"



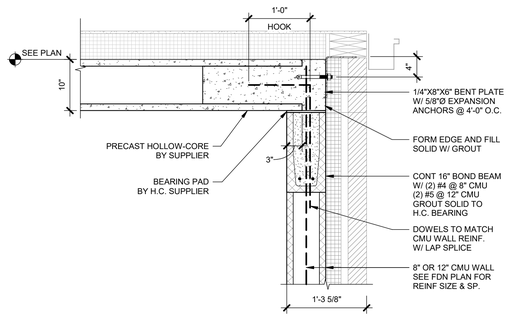
7 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"



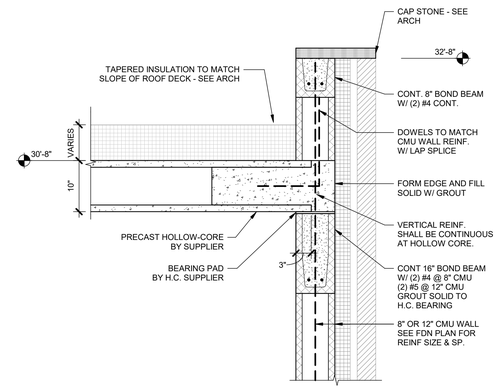
6 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"



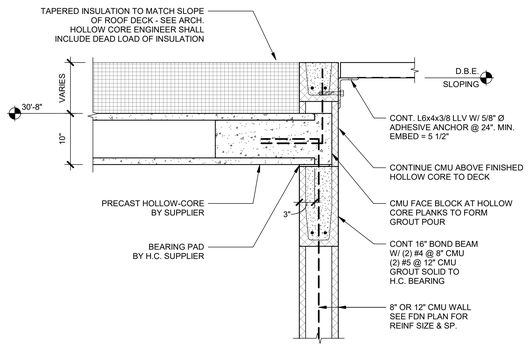
5 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"



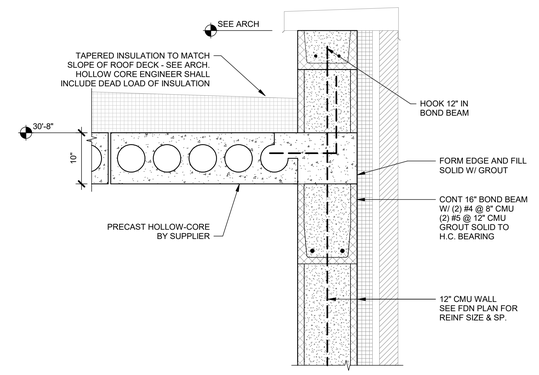
4 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"



3 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"



2 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"



1 S-403 HOLLOW-CORE DETAIL
1" = 1'-0"

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bennett&pless
formerly LHC STRUCTURAL ENGINEERS
5430 Wade Park Boulevard, Suite 400
Raleigh, North Carolina 27607
919.832.5587
NC License #F-1105 Project # 23.08.086

NORTH CAROLINA PROFESSIONAL SEAL 037412 ENGINEER TIMOTHY K. WILSON
9/12/24

Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
1	2/18/25	BID SET/AGENCY COM.
3	4/17/25	ADDENDUM 3

ISSUE DATE: 09/12/2024
PROJECT #: 02303.000
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FRAMING DETAILS

S-403

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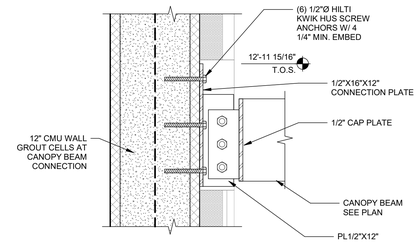
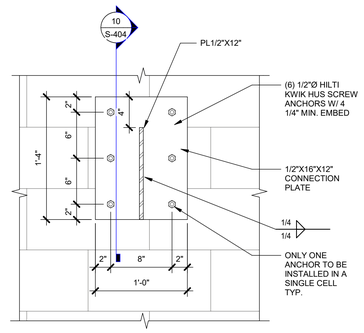
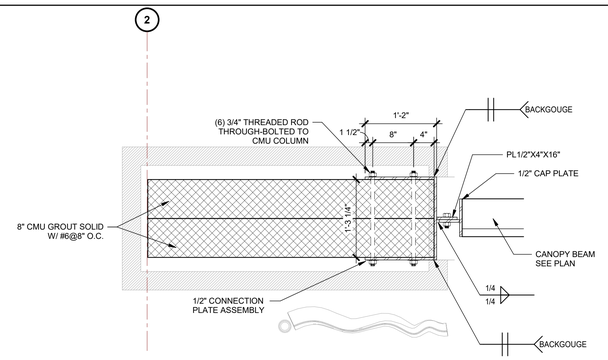


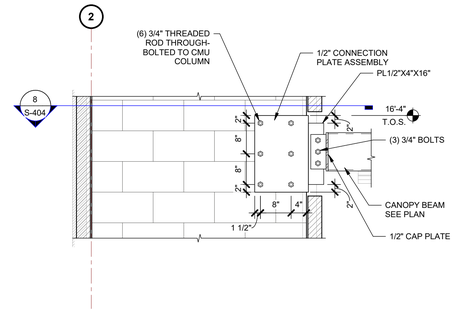
10 S-404 CANOPY CONNECTION TO GYM WALL
1 1/2" = 1'-0"



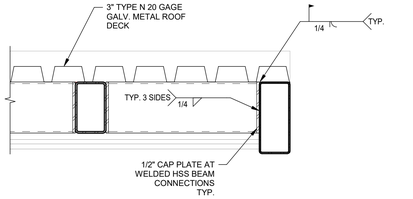
9 S-404 CANOPY CONNECTION TO GYM WALL
1 1/2" = 1'-0"



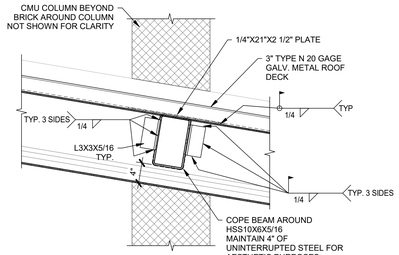
8 S-404 CANOPY TO CMU CONNECTION
1" = 1'-0"



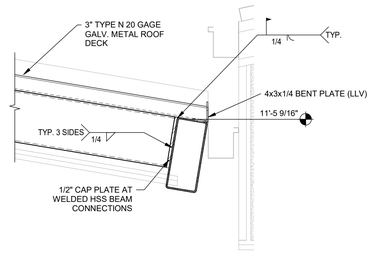
7 S-404 CANOPY TO CMU CONNECTION
3/4" = 1'-0"



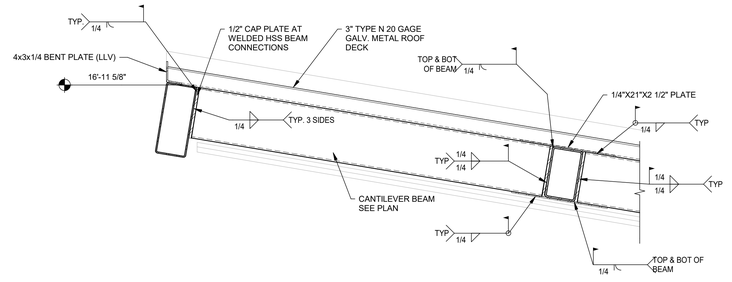
6 S-404 EAST CANOPY SECTION AT CANTILEVER
1" = 1'-0"



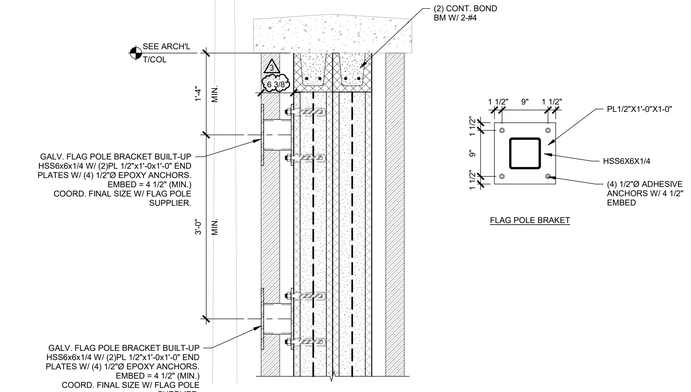
5 S-404 CANOPY SECTION
1" = 1'-0"

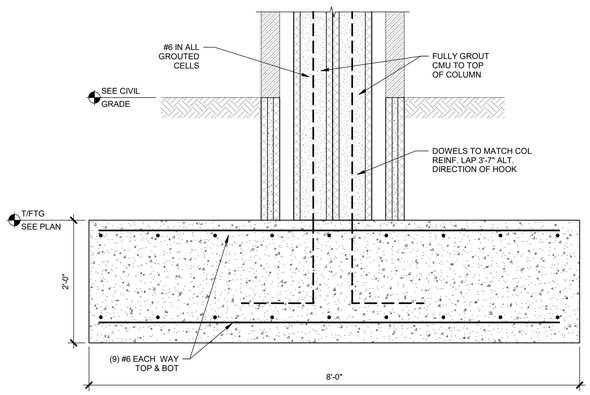


4 S-404 NORTH CANOPY SECTION AT CANTILEVER
1" = 1'-0"

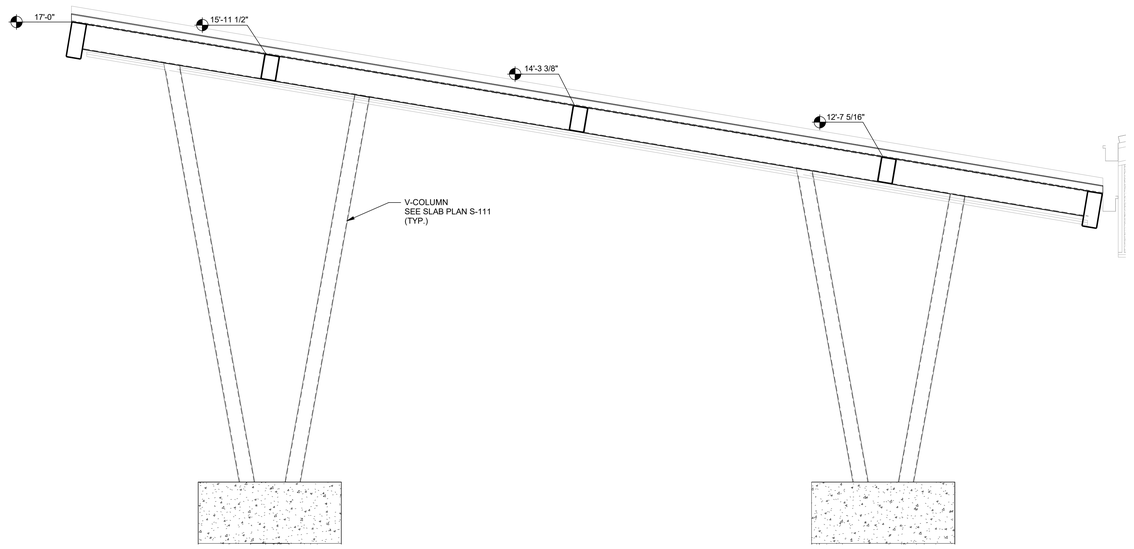


3 S-404 SOUTH CANOPY SECTION AT CANTILEVER
1" = 1'-0"





2 S-404 CANOPY SUPPORT COLUMN
1" = 1'-0"



1 S-404 MAIN CANOPY ELEVATION
1/2" = 1'-0"

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NC License #F-1105 Project # 23.08.086

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9/12/24

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EB Frink Middle School
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CANOPY AND ROOF DETAILS

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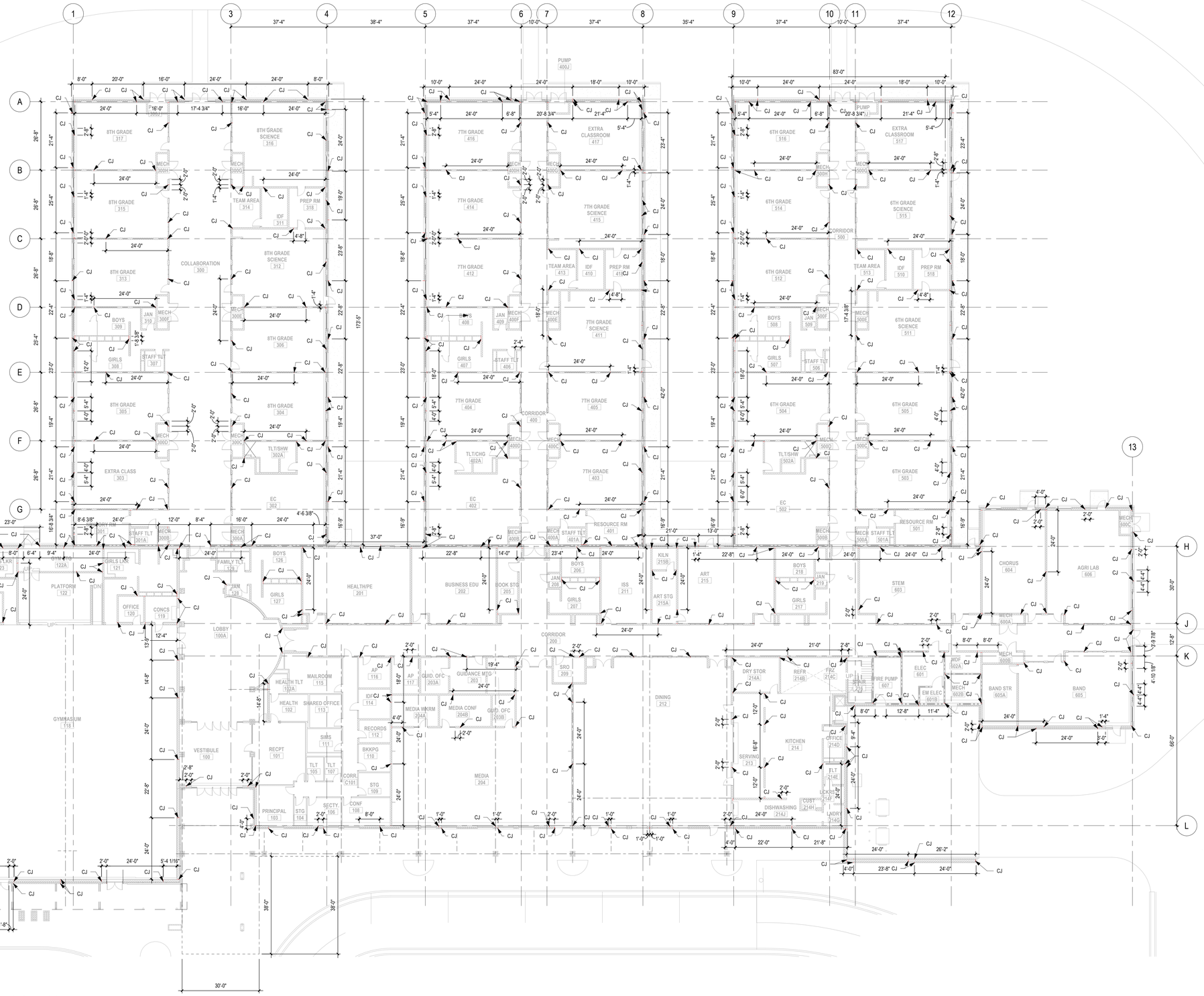

1 A-102 **OVERALL FIRST FLOOR PLAN**

SCALE: 1/16" = 1'-0"

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4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025

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OVERALL PLAN - CONTROL JOINTS

A-102

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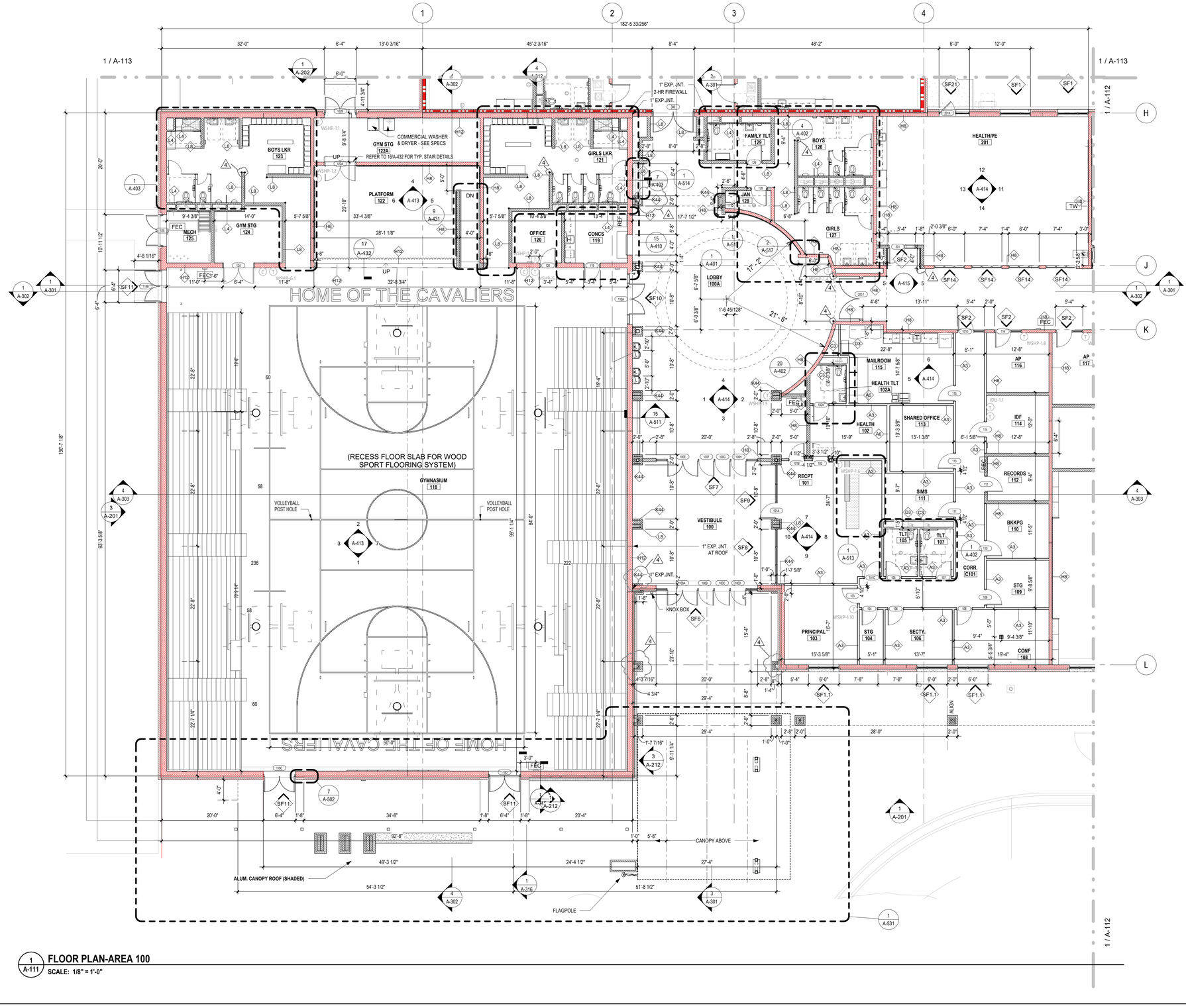

1 / A-111 **FLOOR PLAN-AREA 100**
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
	RED HIGHLIGHTED WALLS - LOAD BEARING CORE. SEE STRUCTURAL.
TW	TEACHING WALL - SEE SHEET 401
	BULLNOSE CMU CORNER - SEE DETAIL 14 & 15 A-511
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ELECTRICAL FLOOR BOX LOCATION - SEE ELECTRICAL FOR FURTHER DETAILS

GENERAL NOTES:

1. SEE SHEET A-101 FOR OVERALL PLAN AND DIMENSIONS
2. SEE SHEET A-010 FOR UL DESIGNS AND PARTITION TYPES.
3. SEE G-003 FOR UL DETAILS.
4. SEE G-111 FOR LIFE SAFETY FLOOR PLAN

KEY PLAN 100

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RALEIGH

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NORTH CAROLINA
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2	03/05/2025	BID ADDENDUM 1
3	03/20/2025	BID ADDENDUM 2
4	04/17/2025	BID ADDENDUM 3

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FLOOR PLAN - AREA 100

A-111

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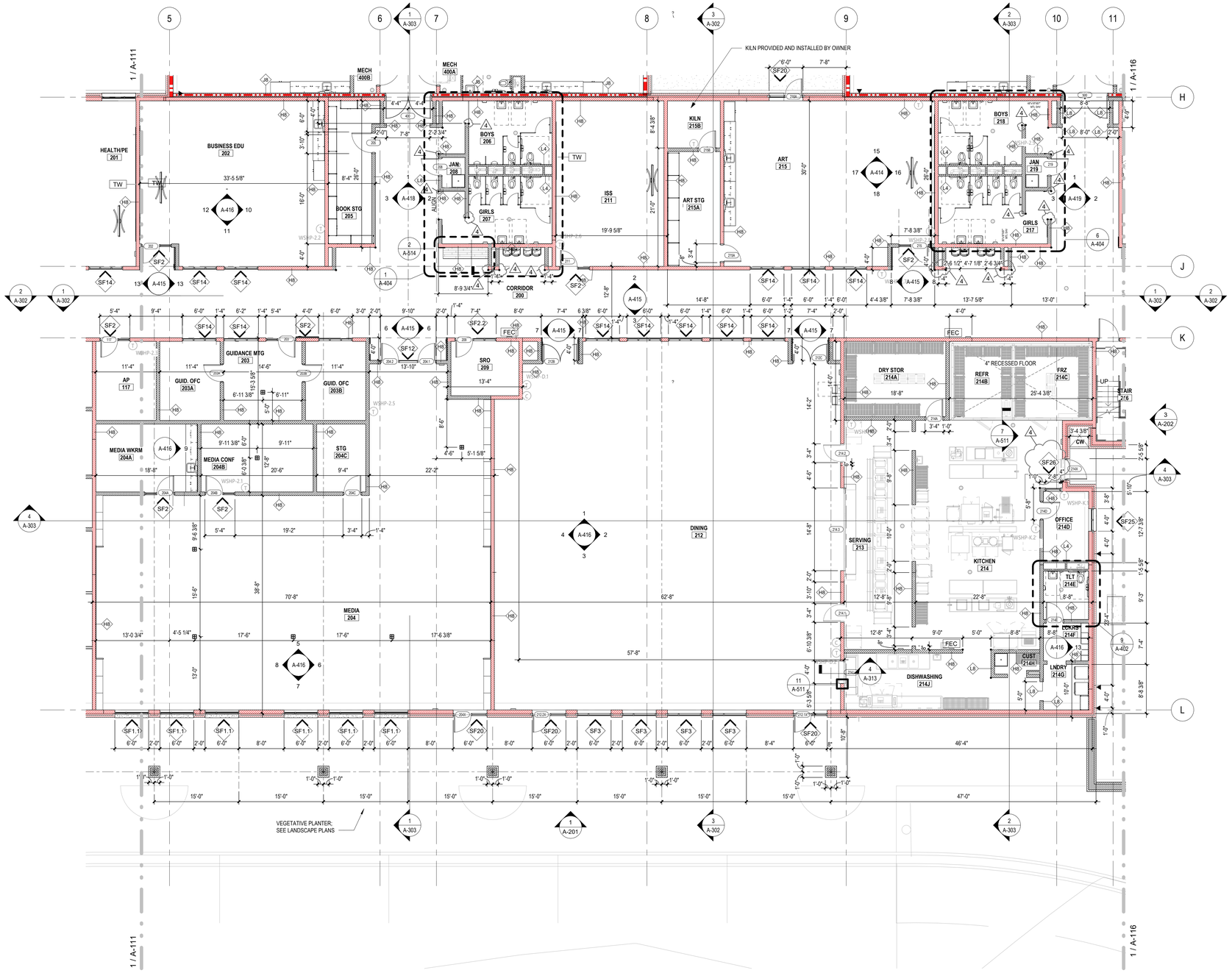

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
	RED HIGHLIGHTED WALLS - LOAD BEARING CORE. SEE STRUCTURAL.
TW	TEACHING WALL - SEE SHEET 401
	BULLNOSE CMU CORNER - SEE DETAIL 14 & 15 A-511
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ELECTRICAL FLOOR BOX LOCATION - SEE ELECTRICAL FOR FURTHER DETAILS

GENERAL NOTES:

1. SEE SHEET A-101 FOR OVERALL PLAN AND DIMENSIONS
2. SEE SHEET A-010 FOR UL DESIGNS AND PARTITION TYPES.
3. SEE G-003 FOR UL DETAILS.
4. SEE G-111 FOR LIFE SAFETY FLOOR PLAN

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Construction Documents

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FLOOR PLAN - AREA 200

KEY PLAN 200

A-112

1 A-112 FLOOR PLAN - AREA 200
SCALE: 1/8" = 1'-0"

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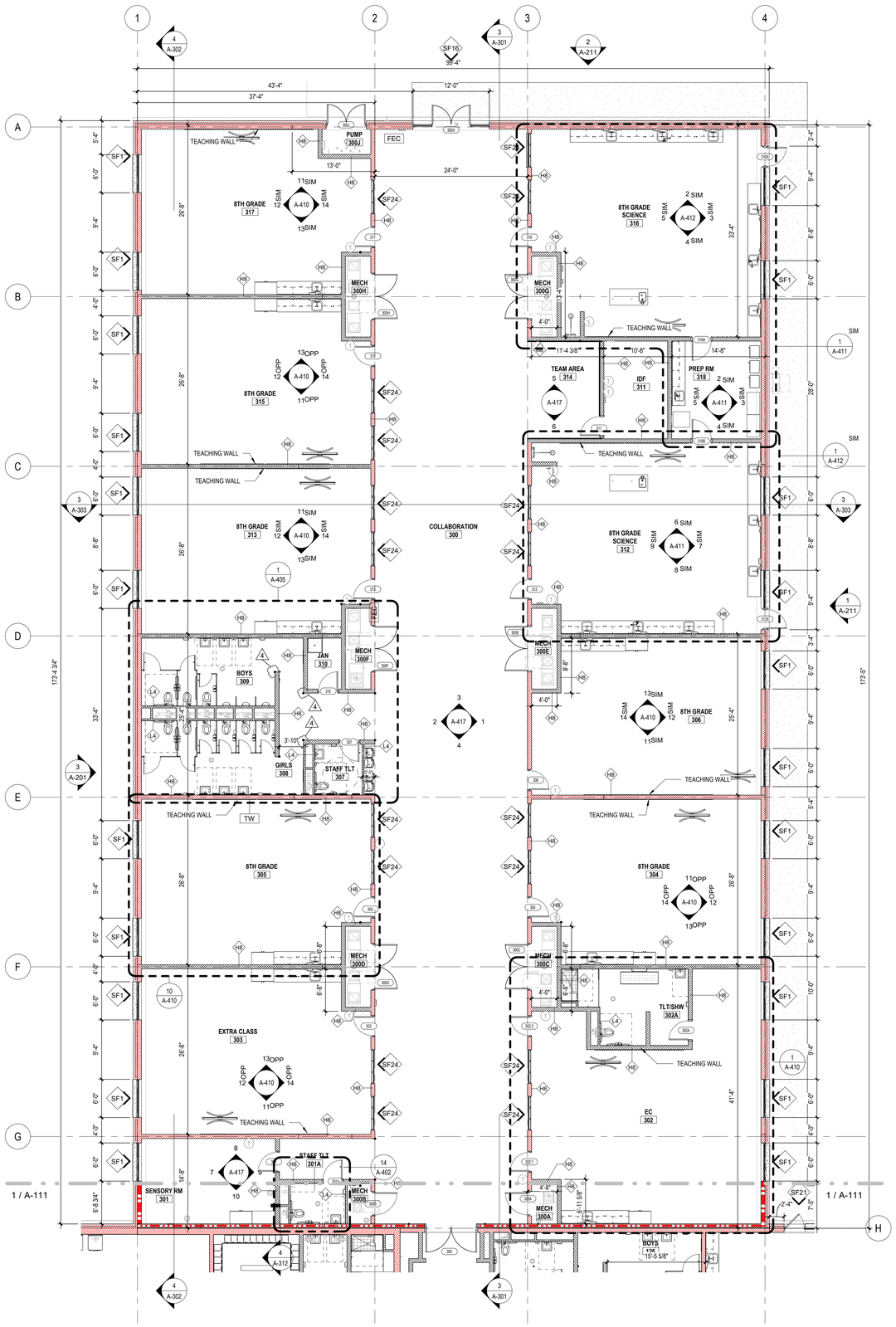
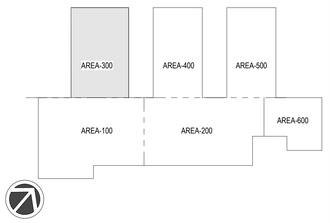


1 / A-113 **FLOOR PLAN-AREA 300**
SCALE: 1/8" = 1'-0"



KEY PLAN 300

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
	RED HIGHLIGHTED WALLS - LOAD BEARING CORE. SEE STRUCTURAL.
TW	TEACHING WALL - SEE SHEET 401
	BULLNOSE CMU CORNER - SEE DETAIL 14 & 15 A-511
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ELECTRICAL FLOOR BOX LOCATION - SEE ELECTRICAL FOR FURTHER DETAILS

GENERAL NOTES:

1. SEE SHEET A-101 FOR OVERALL PLAN AND DIMENSIONS
2. SEE SHEET A-010 FOR UL DESIGNS AND PARTITION TYPES.
3. SEE G-003 FOR UL DETAILS.
4. SEE G-111 FOR LIFE SAFETY FLOOR PLAN

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Construction Documents

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ENERGY STAR PARTNER

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FLOOR PLAN - AREA 300

A-113

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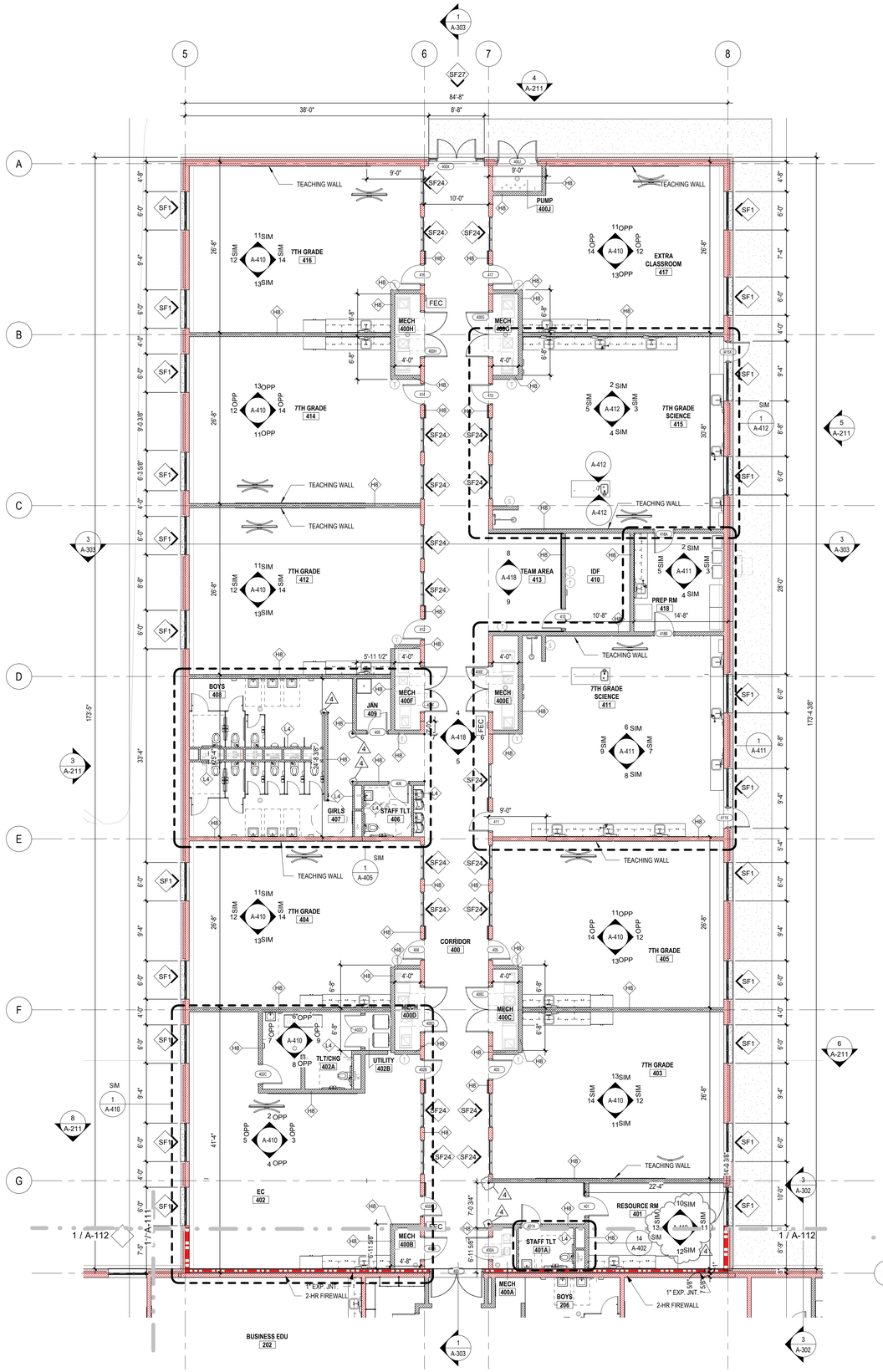

1 A-114 **FLOOR PLAN-AREA 400**
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
	RED HIGHLIGHTED WALLS - LOAD BEARING CORE. SEE STRUCTURAL.
TW	TEACHING WALL - SEE SHEET 401
	BULLNOSE CMU CORNER - SEE DETAIL 14 & 15 A-511
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
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	ELECTRICAL FLOOR BOX LOCATION - SEE ELECTRICAL FOR FURTHER DETAILS

GENERAL NOTES:

1. SEE SHEET A-101 FOR OVERALL PLAN AND DIMENSIONS
2. SEE SHEET A-010 FOR UL DESIGNS AND PARTITION TYPES.
3. SEE G-003 FOR UL DETAILS.
4. SEE G-111 FOR LIFE SAFETY FLOOR PLAN

KEY PLAN 400

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FLOOR PLAN - AREA 400

A-114

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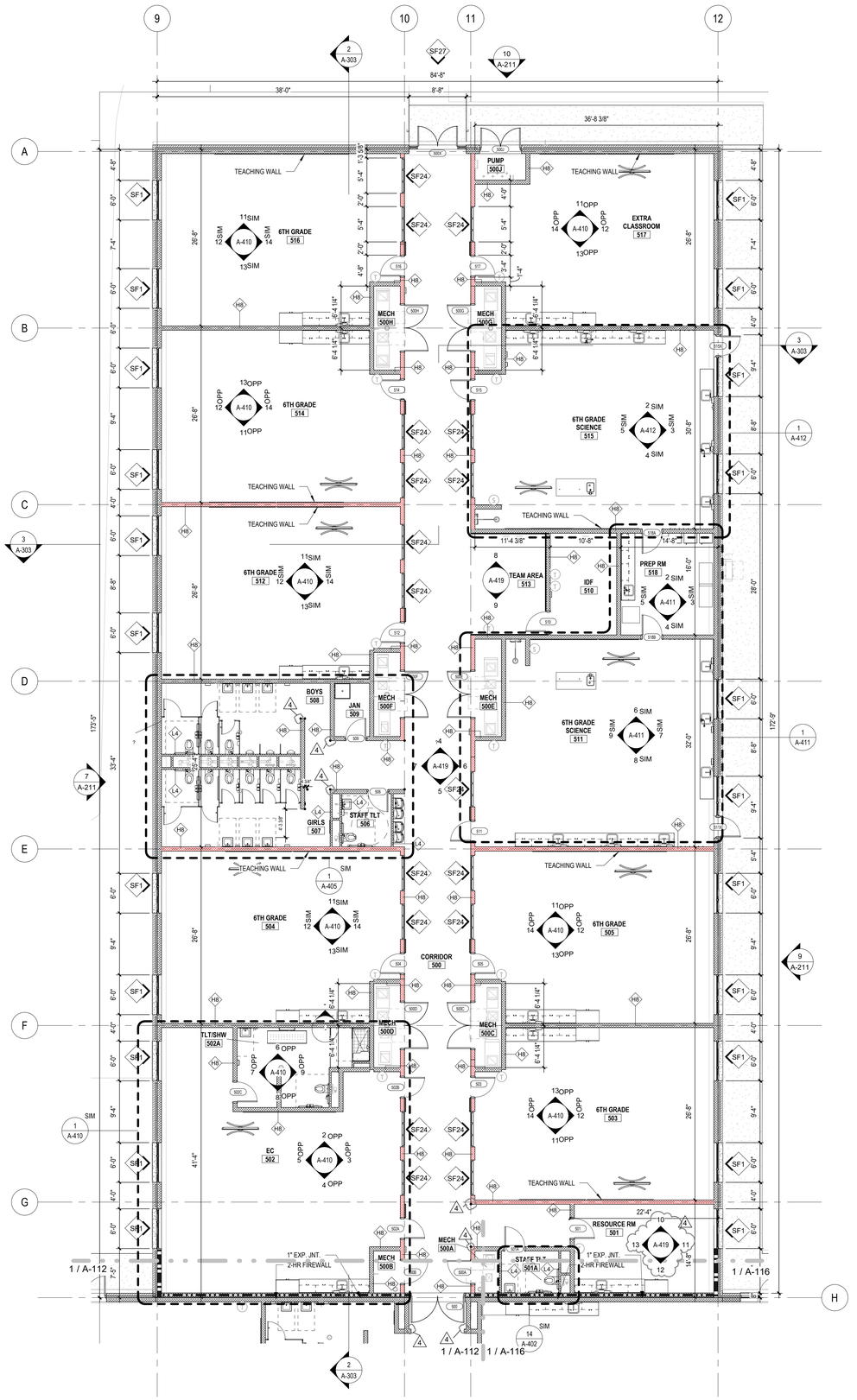


1 A-115 **FLOOR PLAN-AREA 500**

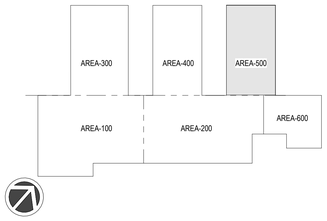
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
	RED HIGHLIGHTED WALLS - LOAD BEARING CORE. SEE STRUCTURAL.
TW	TEACHING WALL - SEE SHEET 401
	BULLNOSE CMU CORNER - SEE DETAIL 14 & 15 A-511
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ELECTRICAL FLOOR BOX LOCATION - SEE ELECTRICAL FOR FURTHER DETAILS

GENERAL NOTES:

1. SEE SHEET A-101 FOR OVERALL PLAN AND DIMENSIONS
2. SEE SHEET A-010 FOR UL DESIGNS AND PARTITION TYPES.
3. SEE G-003 FOR UL DETAILS.
4. SEE G-111 FOR LIFE SAFETY FLOOR PLAN



KEY PLAN 500

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FLOOR PLAN - AREA 500

A-115

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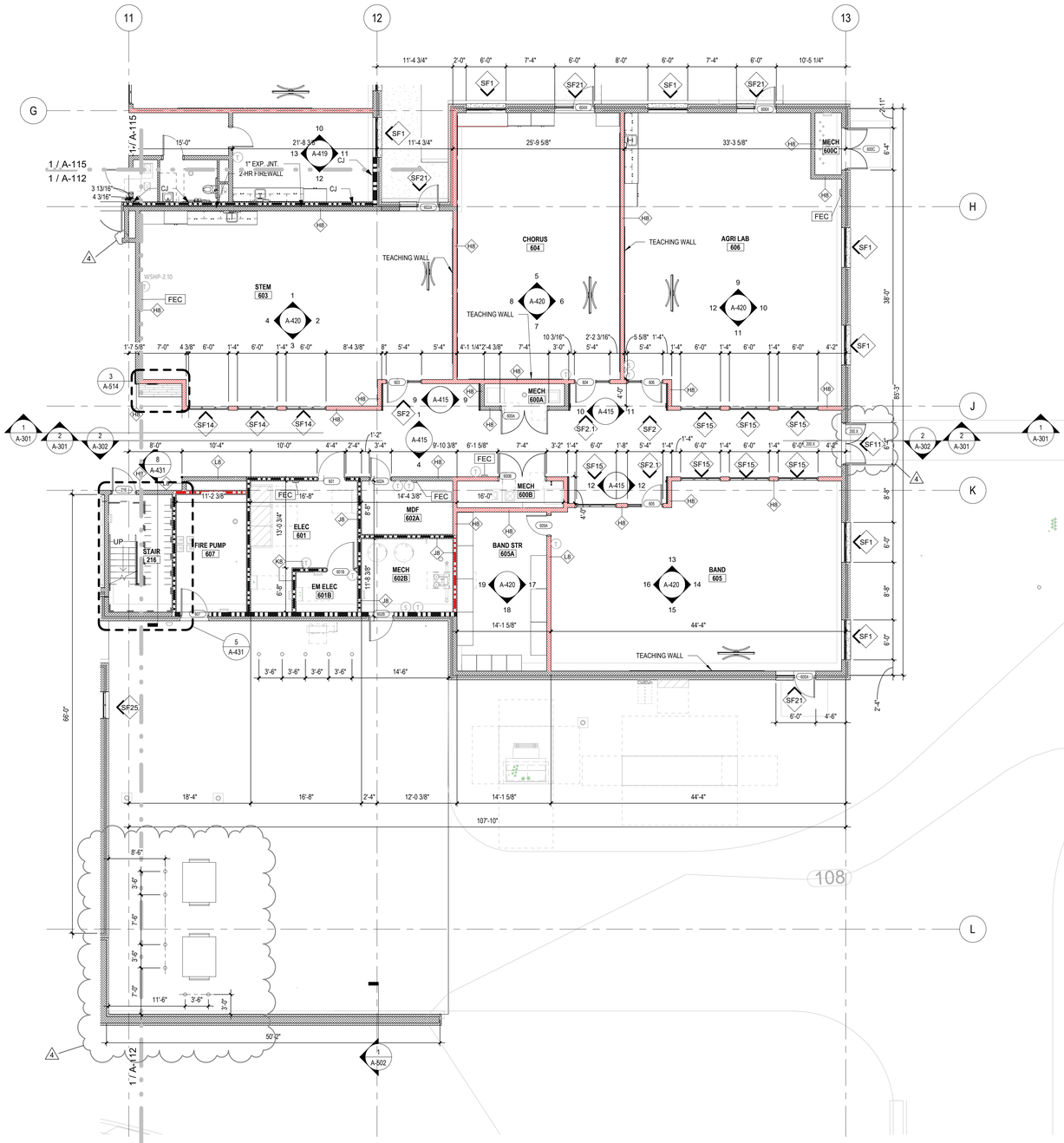

1 A-116 **FLOOR PLAN-AREA 600**
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
	RED HIGHLIGHTED WALLS - LOAD BEARING CORE. SEE STRUCTURAL.
TW	TEACHING WALL - SEE SHEET 401
	BULLNOSE CMU CORNER - SEE DETAIL 14 & 15 A-511
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ELECTRICAL FLOOR BOX LOCATION - SEE ELECTRICAL FOR FURTHER DETAILS

GENERAL NOTES:

1. SEE SHEET A-101 FOR OVERALL PLAN AND DIMENSIONS
2. SEE SHEET A-010 FOR UL DESIGNS AND PARTITION TYPES.
3. SEE G-003 FOR UL DETAILS.
4. SEE G-111 FOR LIFE SAFETY FLOOR PLAN

KEY PLAN 600

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FLOOR PLAN - AREA 600

A-116

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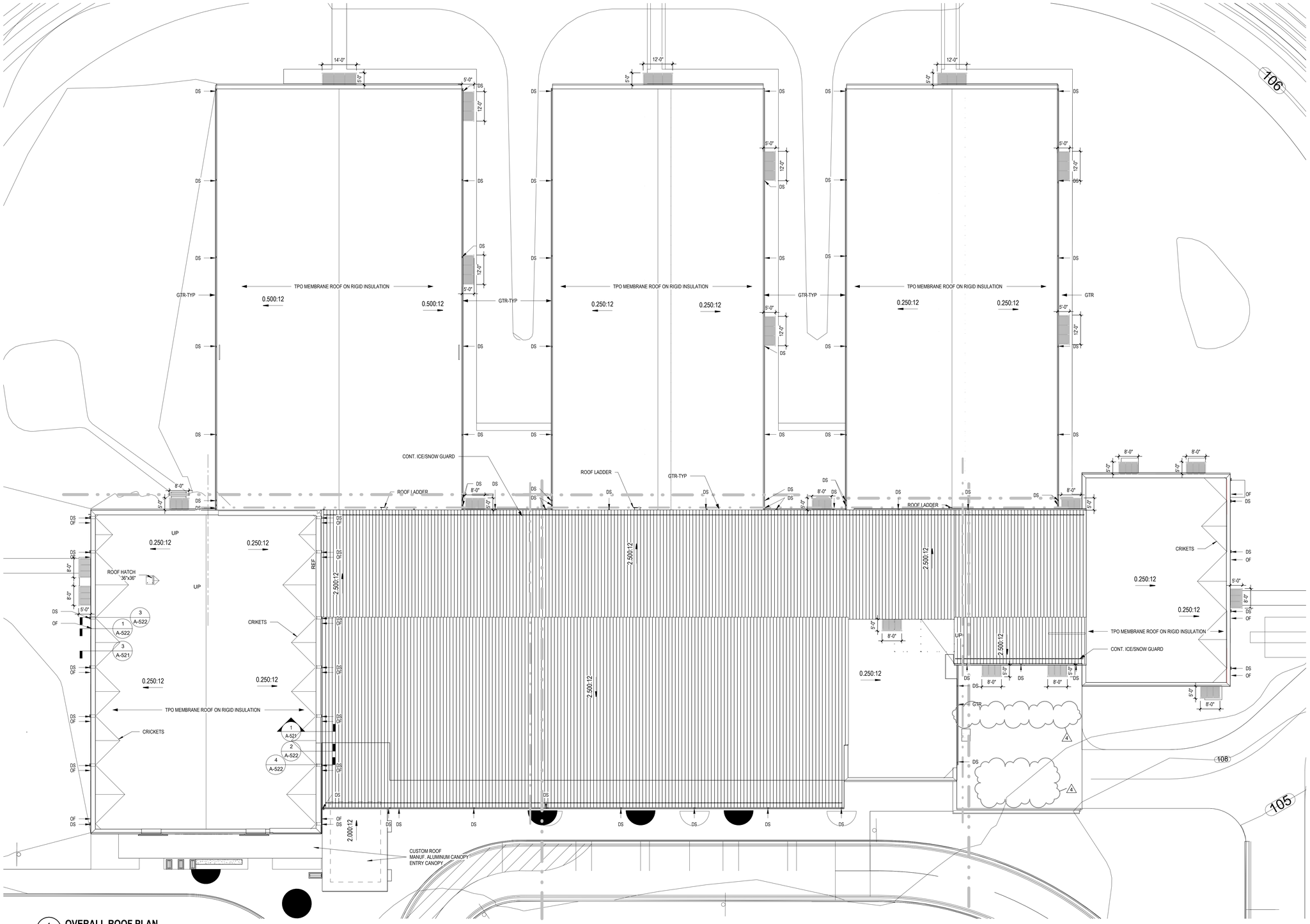
ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
DS	4" x 6" DOWNSPOUT
GTR	CONTINUOUS 6" x 6" GUTTER
○	VENT PIPE ROOF PENETRATION - SEE SHEET A-521

GENERAL NOTES:

1. SEE PLUMBING AND MECHANICAL DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS.
2. SEE SHEET A-521 & A-522 FOR ROOF & CANOPY DETAILS.



1 A-130 **OVERALL ROOF PLAN**
SCALE: 1/16" = 1'-0"

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OVERALL ROOF PLAN

A-130

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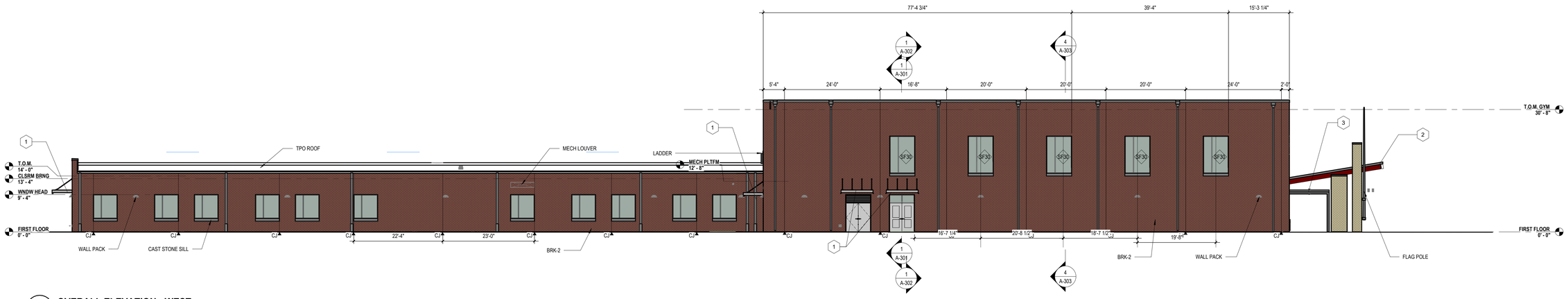
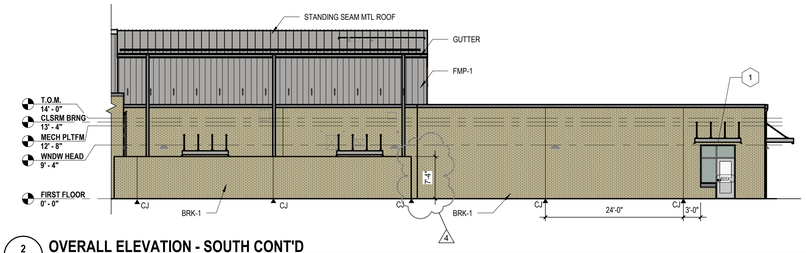
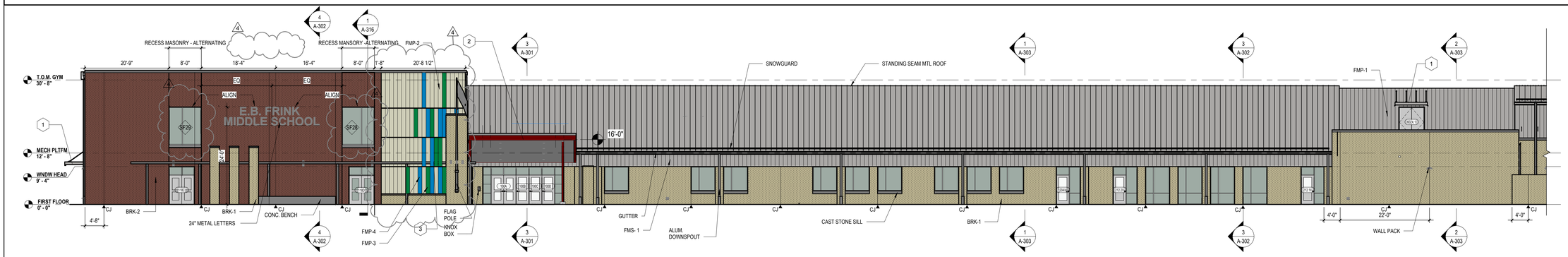


3 A-201 **OVERALL ELEVATION - WEST**
SCALE: 3/32" = 1'-0"



2 A-201 **OVERALL ELEVATION - SOUTH CONT'D**
SCALE: 3/32" = 1'-0"



1 A-201 **OVERALL ELEVATION - SOUTH**
SCALE: 3/32" = 1'-0"

EXTERIOR BUILDING MATERIAL LEGEND

	BRK-1 MTR-1	IVORYSTONE #122 LINEN (TO MATCH BRK-1)	PALMETTO CUSTOM
	BRK-2 MTR-2	RED WIRECUT #5 NUTMEG (TO MATCH BRK-2)	PALMETTO CUSTOM
	FMP-1	WALL PANEL - ARCHITECT TO SELECT FROM FULL COLOR LINE	MORIN
	FMP-2	WALL PANEL - ARCHITECT TO SELECT FROM FULL COLOR LINE	MORIN
	FMP-3	WALL PANEL - ARCHITECT TO SELECT **CUSTOM COLOR**	MORIN
	FMP-4	WALL PANEL - ARCHITECT TO SELECT **CUSTOM COLOR**	MORIN
	FMS-1	FLUSH METAL SOFFIT- COLOR TO MATCH ROOF	

ELEVATION KEY NOTES

1. WALL MOUNTED MANUFACTURED ALUMINUM CANOPY
2. CUSTOM CURVED MANUFACTURED ALUMINUM ENTRY CANOPY
3. CUSTOM CURVED MANUFACTURED ALUMINUM BUS CANOPY

ALL WALL PACK LIGHTS TO BE MOUNTED AT WINDOW HEAD HEIGHT, 9'-4"

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OVERALL EXTERIOR ELEVATIONS

A-201

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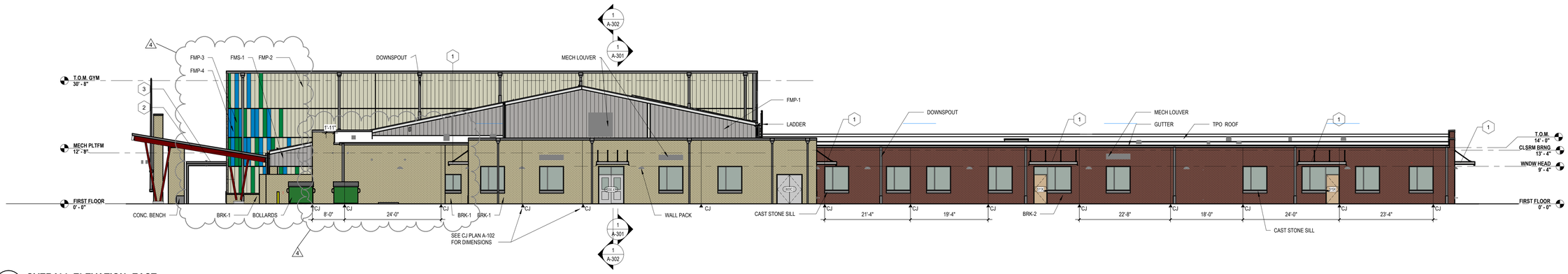
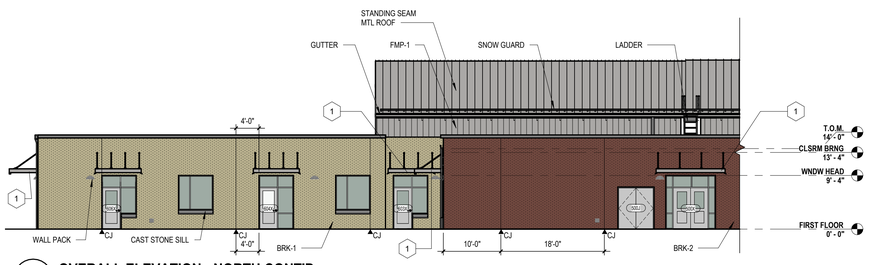


3 / A-202 OVERALL ELEVATION -EAST
SCALE: 3/32" = 1'-0"



2 / A-202 OVERALL ELEVATION - NORTH CONT'D
SCALE: 3/32" = 1'-0"

1 / A-202 OVERALL ELEVATION - NORTH
SCALE: 3/32" = 1'-0"

EXTERIOR BUILDING MATERIAL LEGEND

	BRK-1 MTR-1	IVORYSTONE #122 LINEN (TO MATCH BRK-1)	PALMETTO CUSTOM
	BRK-2 MTR-2	RED WIRECUT #5 NUTMEG (TO MATCH BRK-2)	PALMETTO CUSTOM
	FMP-1	WALL PANEL - ARCHITECT TO SELECT FROM FULL COLOR LINE	MORIN
	FMP-2	WALL PANEL - ARCHITECT TO SELECT FROM FULL COLOR LINE	MORIN
	FMP-3	WALL PANEL - ARCHITECT TO SELECT **CUSTOM COLOR**	MORIN
	FMP-4	WALL PANEL - ARCHITECT TO SELECT **CUSTOM COLOR**	MORIN
	FMS-1	FLUSH METAL SOFFIT- COLOR TO MATCH ROOF	

ELEVATION KEY NOTES

1. WALL MOUNTED MANUFACTURED ALUMINUM CANOPY
2. CUSTOM CURVED MANUFACTURED ALUMINUM ENTRY CANOPY
3. CUSTOM CURVED MANUFACTURED ALUMINUM BUS CANOPY

ALL WALL PACK LIGHTS TO BE MOUNTED AT WINDOW HEAD HEIGHT, 9'-4"

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OVERALL EXTERIOR ELEVATIONS

A-202

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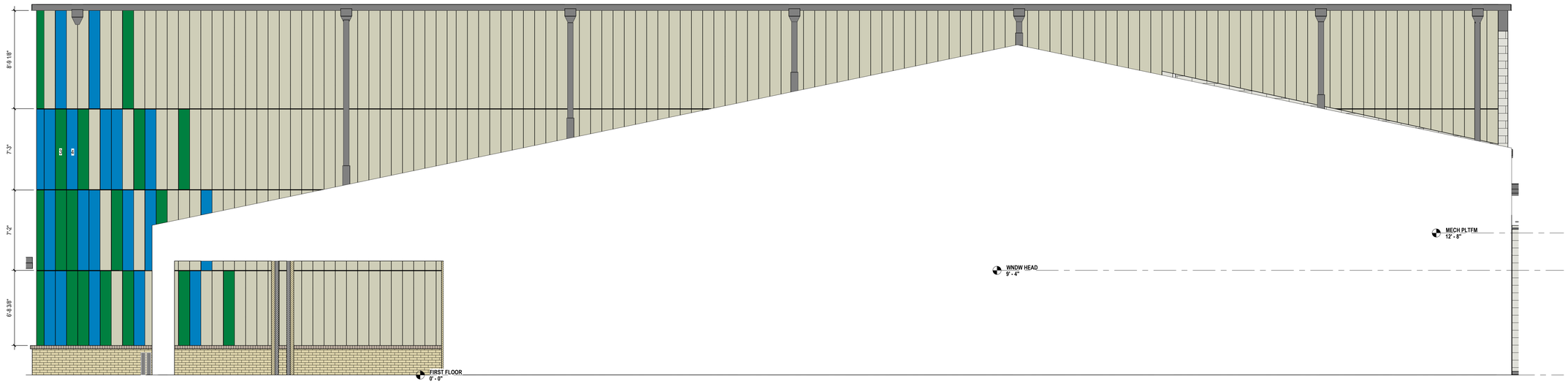
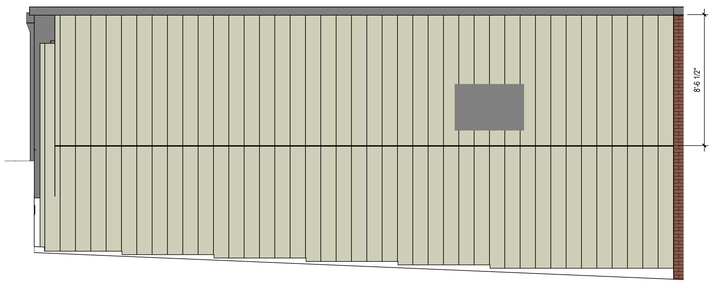
3 = FMP-3
4 = FMP-4

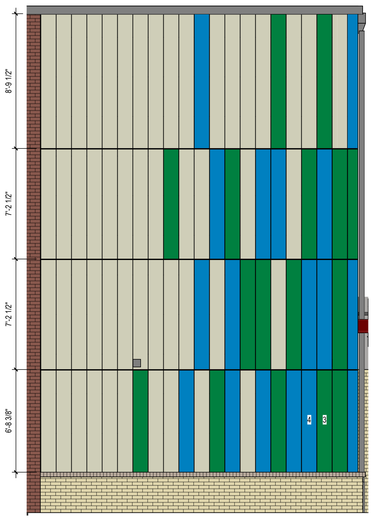
ALL OTHER PANELS TO BE FMP-2



3 / A-212 **EAST METAL PANEL WALL**
SCALE: 1/4" = 1'-0"



2 / A-212 **NORTH METAL PANEL WALL**
SCALE: 1/4" = 1'-0"



3 = FMP-3
4 = FMP-4

ALL OTHER PANELS TO BE FMP-2

1 / A-212 **SOUTH METAL PANEL WALL**
SCALE: 1/4" = 1'-0"

EXTERIOR BUILDING MATERIAL LEGEND

BRK-1 MTR-1	IVORYSTONE #122 LINEN (TO MATCH BRK-1)	PALMETTO CUSTOM
BRK-2 MTR-2	RED WIRECUT #5 NUTMEG (TO MATCH BRK-2)	PALMETTO CUSTOM
FMP-1	WALL PANEL - ARCHITECT TO SELECT FROM FULL COLOR LINE	MORIN
FMP-2	WALL PANEL - ARCHITECT TO SELECT FROM FULL COLOR LINE	MORIN
FMP-3	WALL PANEL - ARCHITECT TO SELECT **CUSTOM COLOR**	MORIN
FMP-4	WALL PANEL - ARCHITECT TO SELECT **CUSTOM COLOR**	MORIN
FMS-1	FLUSH METAL SOFFIT- COLOR TO MATCH ROOF	

ELEVATION KEY NOTES

1. WALL MOUNTED MANUFACTURED ALUMINUM CANOPY
2. CUSTOM CURVED MANUFACTURED ALUMINUM ENTRY CANOPY
3. CUSTOM CURVED MANUFACTURED ALUMINUM BUS CANOPY

ALL WALL PACK LIGHTS TO BE MOUNTED AT WINDOW HEAD HEIGHT, 9'-4"

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METAL WALL PANEL ELEVATIONS

A-212

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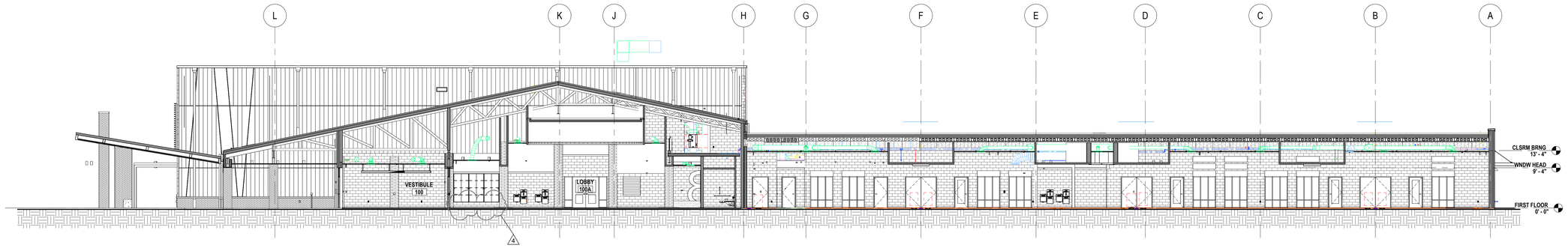
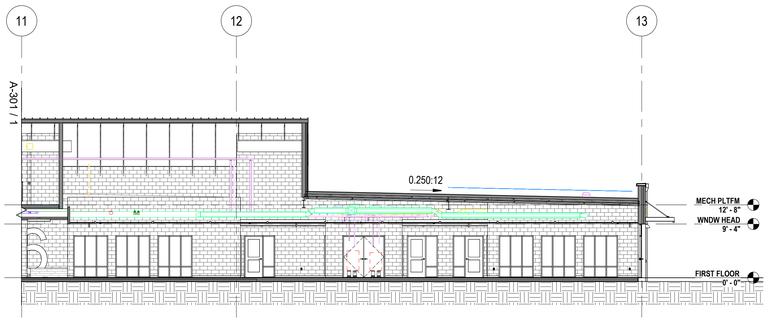


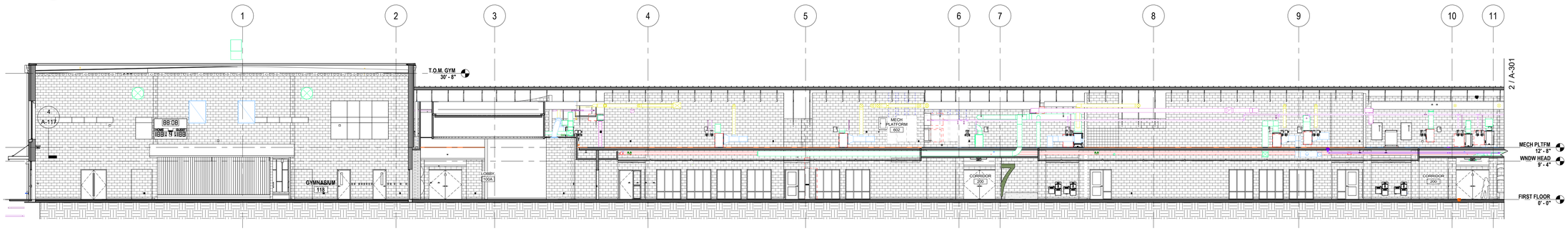
3 / A-301 **BUILDING SECTION - CLASSROOM 300 COLLABORATION / LOBBY/ENTRY**

SCALE: 3/32" = 1'-0"



2 / A-301 **BUILDING SECTION - AREA 100/200 - NORTH CONT.**

SCALE: 3/32" = 1'-0"



1 / A-301 **BUILDING SECTION - AREA 100/200 - NORTH**

SCALE: 3/32" = 1'-0"

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BUILDING SECTIONS

A-301

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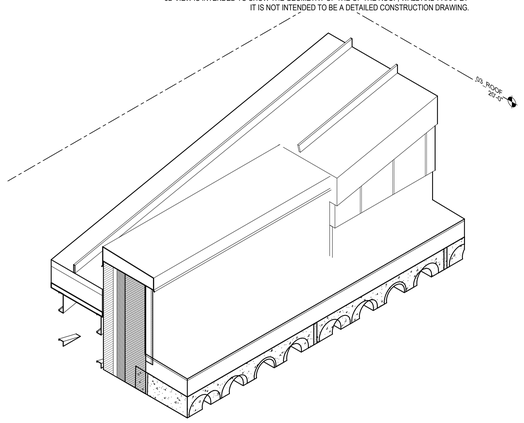
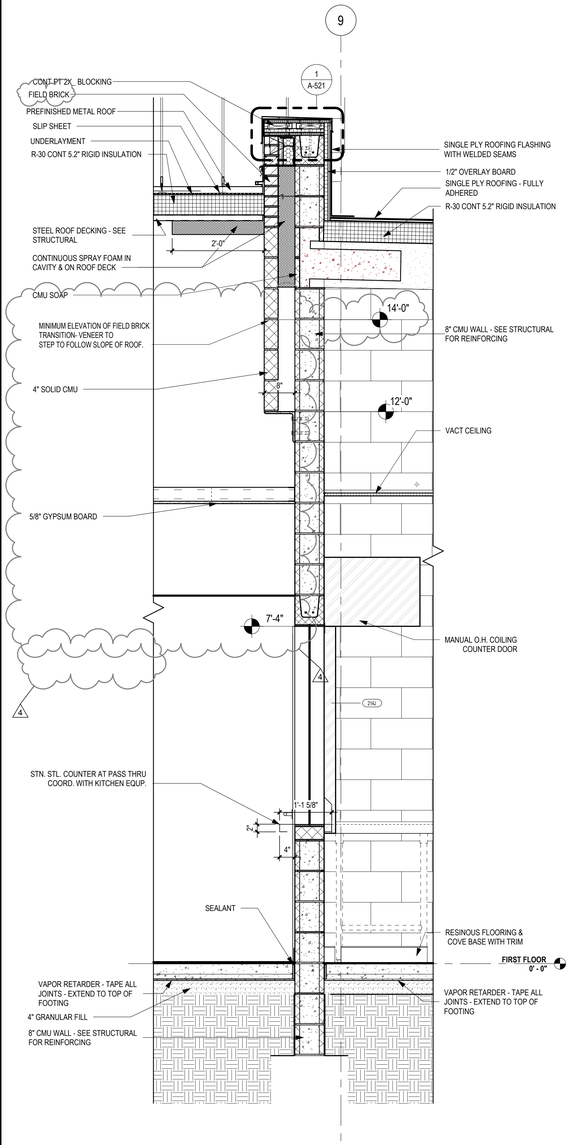
3D VIEW IS INTENDED TO SHOW THE GEOMETRY OF THE OF THE ROOF, WALL AND PARAPET IT IS NOT INTENDED TO BE A DETAILED CONSTRUCTION DRAWING.



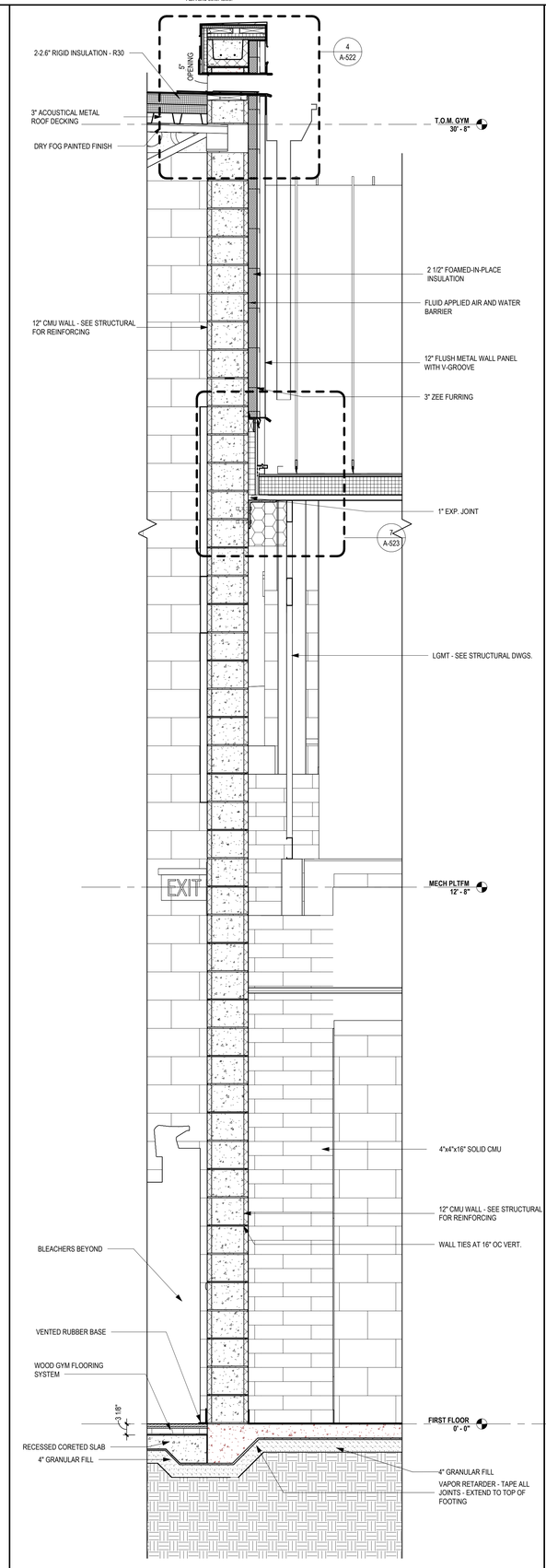
5 A-313 ROOF PARAPET 3D VIEW AT TPO ROOF

SCALE:



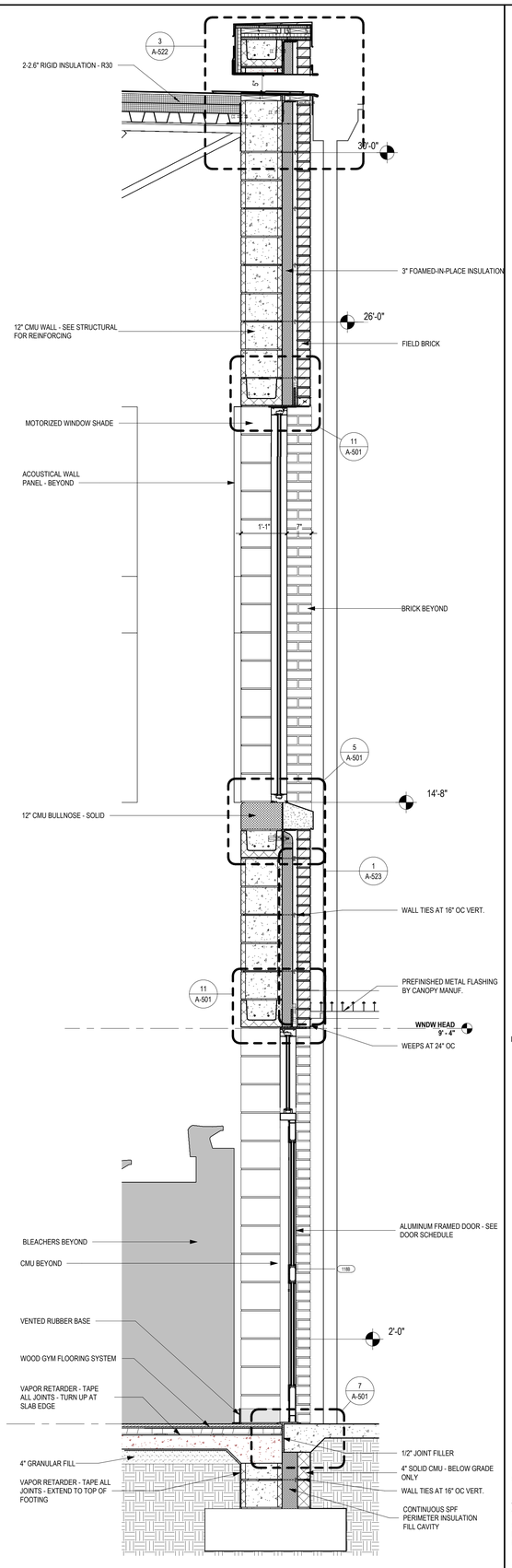
4 A-313 WALL SECTION AT O.H. COUNTER DOOR

SCALE: 3/4" = 1'-0"



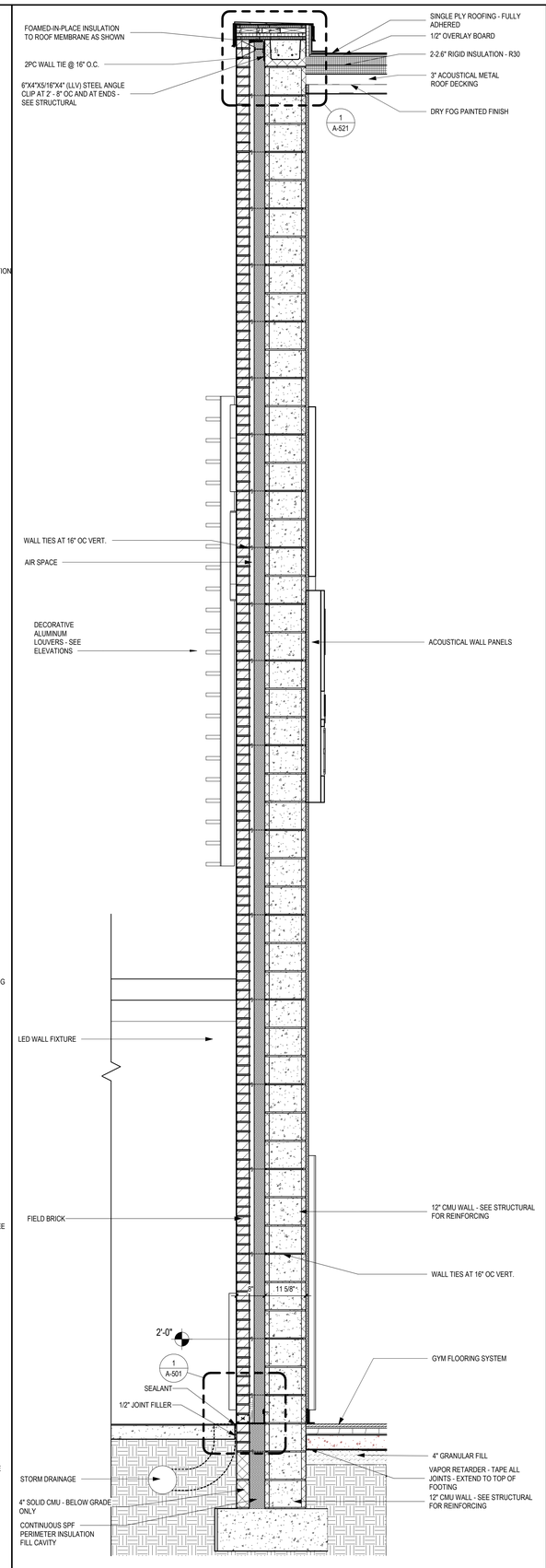
3 A-313 WALL SECTION - VEST. 100 / GYM-LOW EAVE

SCALE: 3/4" = 1'-0"



2 A-313 WALL SECTION - GYM ENTRY - SIDEWALL

SCALE: 3/4" = 1'-0"



1 A-313 WALL SECTION - GYM - ENDWALL CANOPY

SCALE: 3/4" = 1'-0"

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Construction Documents

Lenoir County

EB Frink Middle School

405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
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CHECKED BY: Checker

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WALL SECTIONS

A-313

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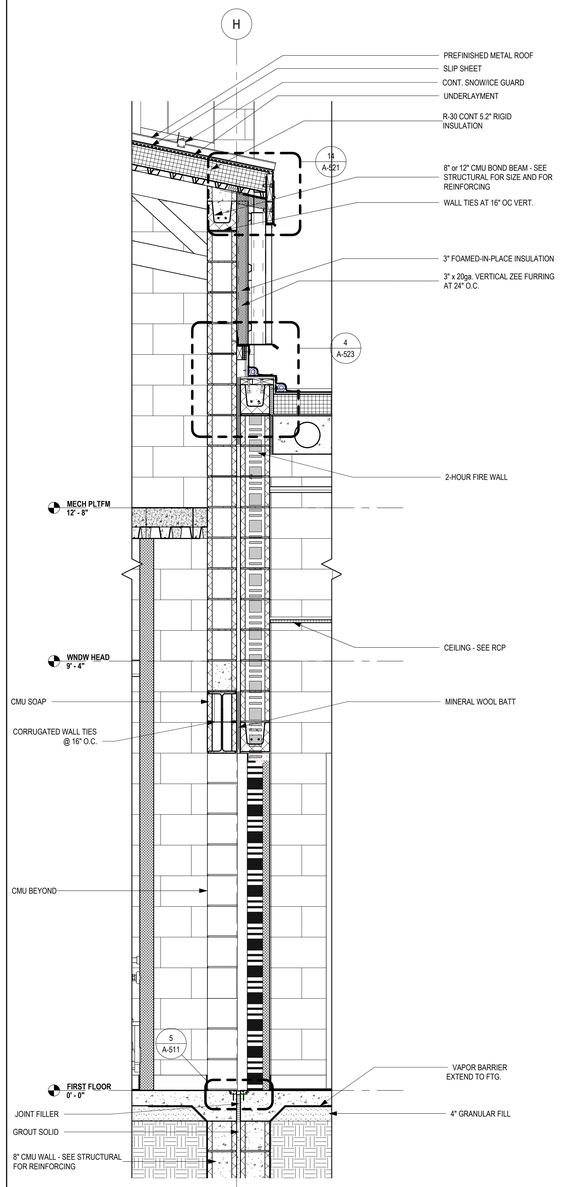
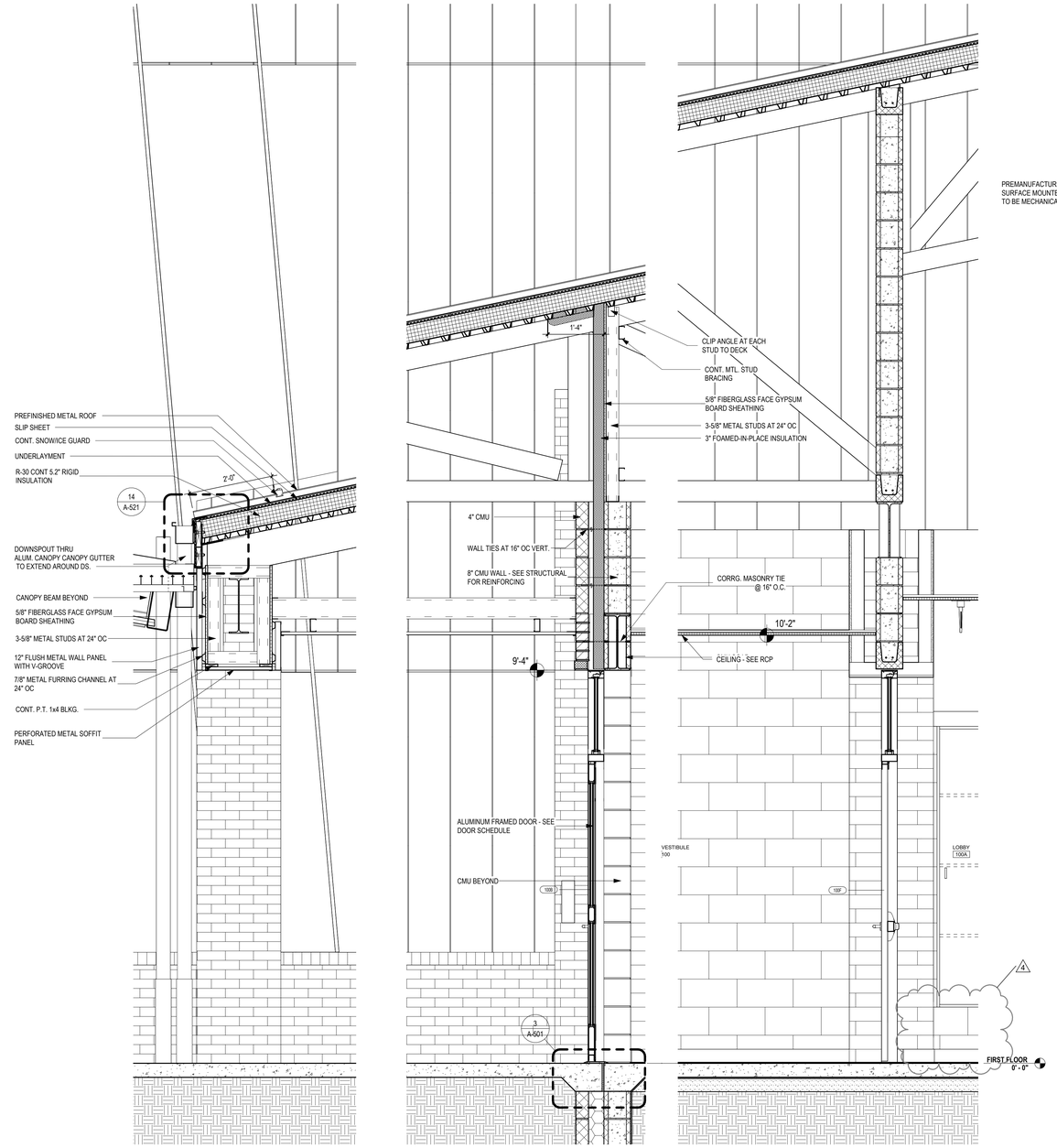
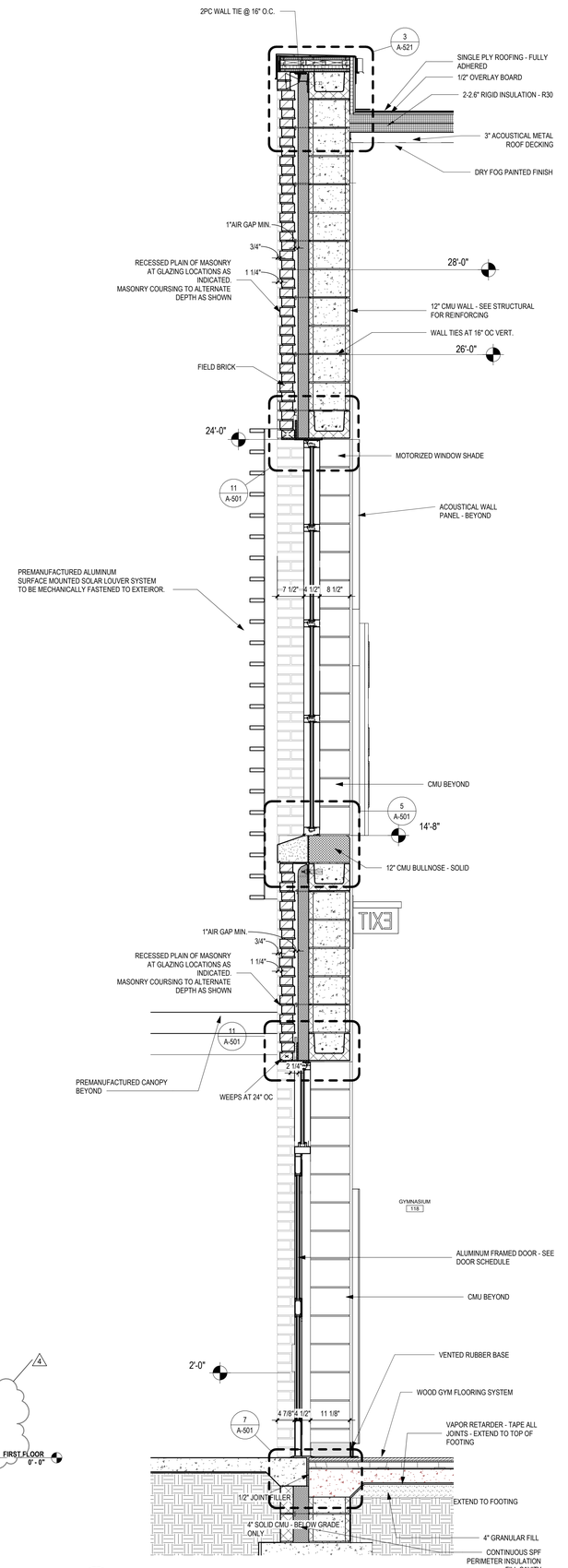


3 A-316 **WALL SECTION - AREA 100 /300- LOW EAVE**
SCALE: 3/4" = 1'-0"



2 A-316 **WALL SECTION - VEST. 100**
SCALE: 3/4" = 1'-0"



1 A-316 **WALL SECTION - GYM SOUTH WALL - @ RECESS PATTERN**
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

A-316

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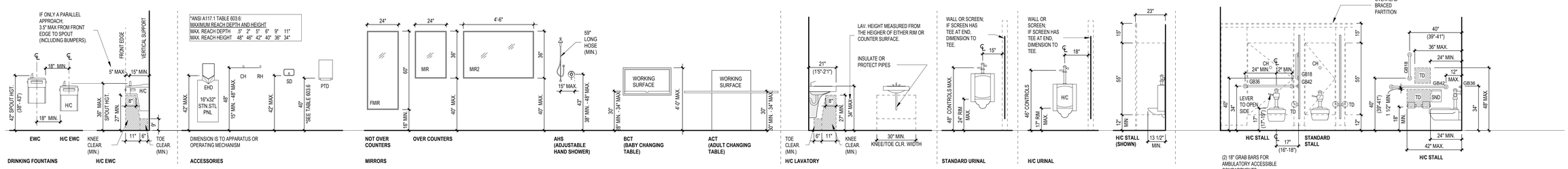
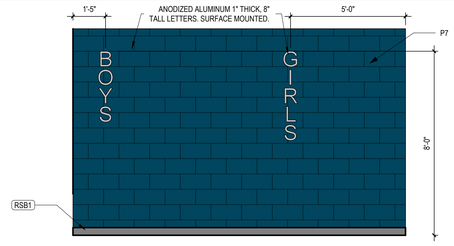


11 A-401 TYPICAL TOILET FIXTURE MOUNTING HEIGHTS - ADULT

SCALE: 3/8" = 1'-0"



10 A-401 INT ELEV - BOYS 126 & GIRLS 127 ENTRY

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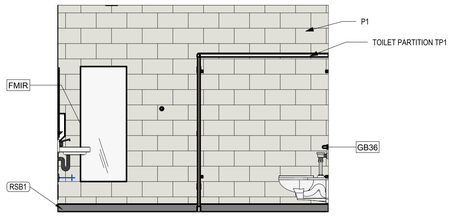
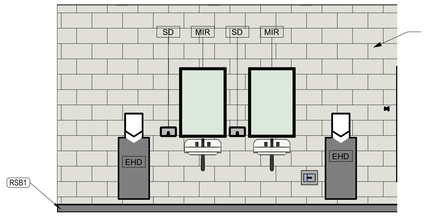


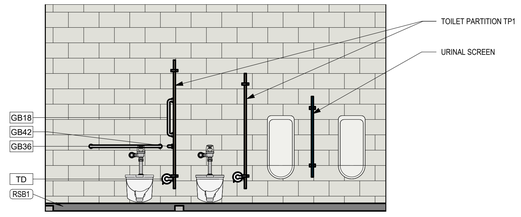
9 A-401 INT ELEV - BOYS 126- EAST

SCALE: 3/8" = 1'-0"



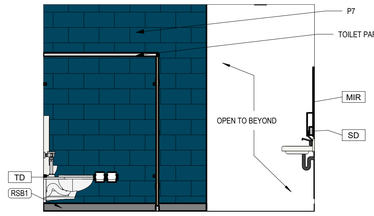
8 A-401 INT ELEV - BOYS 126- NORTH

SCALE: 3/8" = 1'-0"



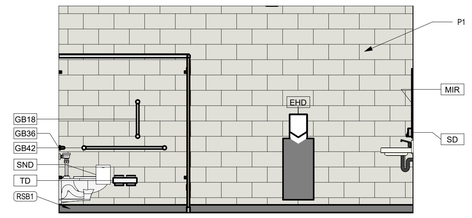
7 A-401 INT ELEV - BOYS 126- SOUTH

SCALE: 3/8" = 1'-0"



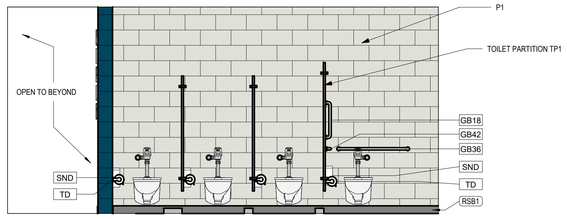
6 A-401 INT ELEV - BOYS 126- WEST

SCALE: 3/8" = 1'-0"



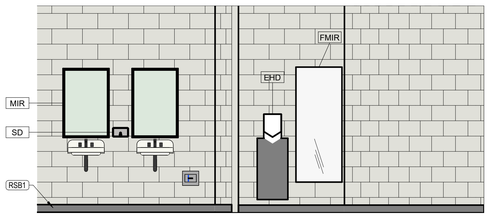
5 A-401 INT ELEV - GIRLS 127- EAST

SCALE: 3/8" = 1'-0"



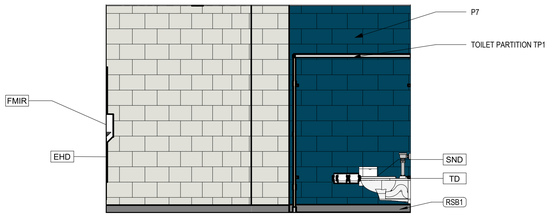
4 A-401 INT ELEV - GIRLS 127- NORTH

SCALE: 3/8" = 1'-0"



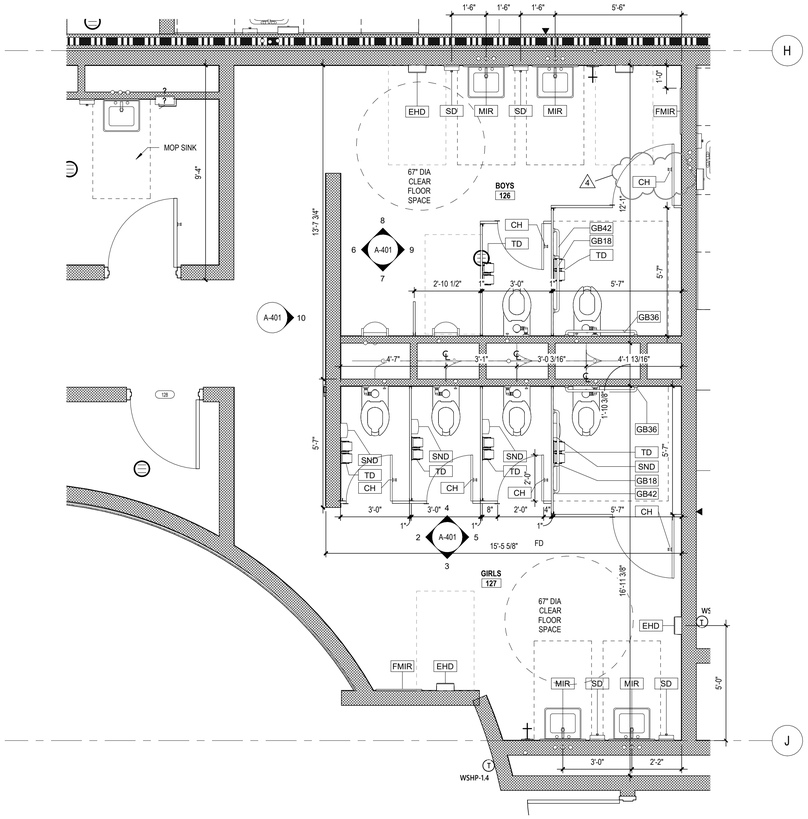
3 A-401 INT ELEV - GIRLS 127- SOUTH

SCALE: 3/8" = 1'-0"



2 A-401 INT ELEV - GIRLS 127- WEST

SCALE: 3/8" = 1'-0"



1 A-401 ENLGD TLT PLAN-AREA 100 - LOBBY TLT

SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND

NAME	DESCRIPTION
ACT	ADULT CHANGING TABLE
BCT	BABY CHANGING TABLE
CH	COAT HOOK (WALL OR DOOR MOUNTED)
EHD	ELECTRIC HAND DRYER
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB# NOTED IN PLAN INDICATES LENGTH IN INCHES
H/C	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MIR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS, REFER TO MOUNTING HEIGHT LEGEND FOR SIZES
PTD	WALL MOUNTED PAPER TOWEL DISPENSER
RH	ROBE HOOK
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	1 ROLL TOILET TISSUE DISPENSER; 1 PER STALL IN GROUP TOILETS

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CERTIFICATE OF AUTHORIZATION
CERT. NO. 50676
NORTH CAROLINA
RALEIGH

BRUCE LINDSTROM
REGISTERED ARCHITECT
7040
NORTH CAROLINA
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ENLARGED TOILET PLANS & INTERIOR ELEVATIONS

A-401

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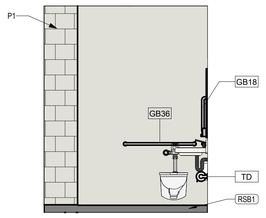
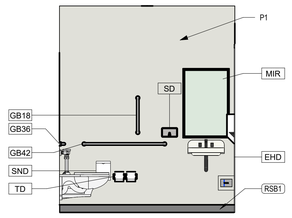


24 A-402 **INT ELEV - HEALTH TLT 102A - NORTH**
SCALE: 3/8" = 1'-0"



23 A-402 **INT ELEV - HEALTH TLT 102A - EAST**
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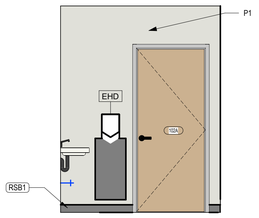

22 A-402 **INT ELEV - HEALTH TLT 102A - SOUTH**
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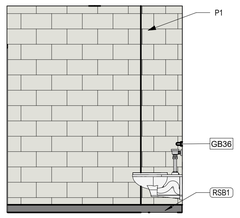
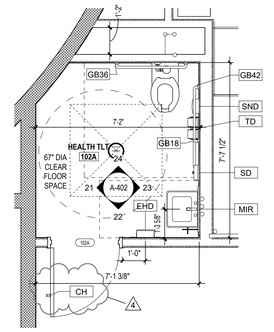
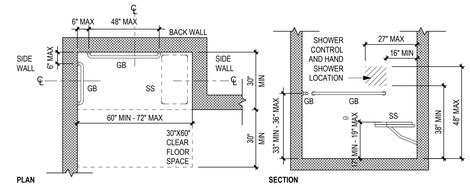


21 A-402 **INT ELEV - HEALTH TLT 102A - WEST**
SCALE: 3/8" = 1'-0"

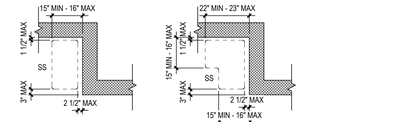


20 A-402 **ENLGD TLT PLAN - TLT 102A**
SCALE: 3/8" = 1'-0"

STANDARD ROLL-IN SHOWER COMPARTMENT

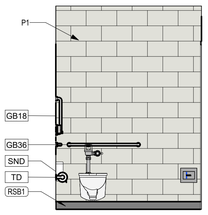


STANDARD SHOWER COMPARTMENT SEAT

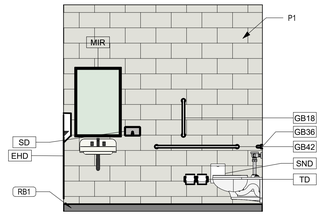


*NOTE: STANDARD ROLL-IN SHOWER REQUIREMENTS TO MEET ICC ANSI A117.7-2009 SECTION 608

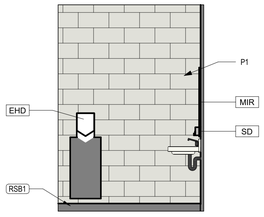
19 A-402 **SHOWER COMPARTMENT REQUIREMENTS**
SCALE: 3/8" = 1'-0"



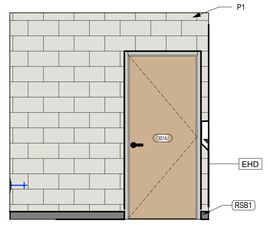
18 A-402 **INT ELEV - STAFF TOILET 301A - WEST**
SCALE: 3/8" = 1'-0"



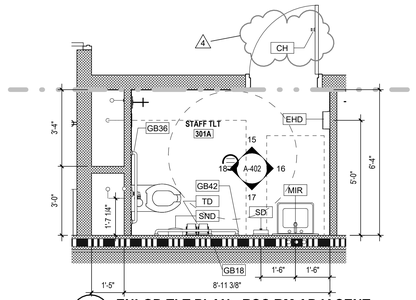
17 A-402 **INT ELEV - STAFF TOILET 301A - SOUTH**
SCALE: 3/8" = 1'-0"



16 A-402 **INT ELEV - STAFF TOILET 301A - EAST**
SCALE: 3/8" = 1'-0"



15 A-402 **INT ELEV - STAFF TOILET 301A - NORTH**
SCALE: 3/8" = 1'-0"



14 A-402 **ENLGD TLT PLAN - RSC RM ADJACENT**
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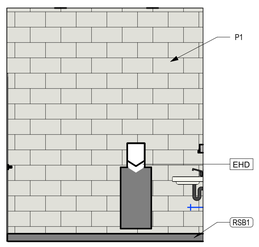
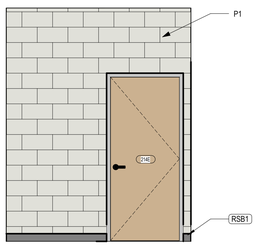
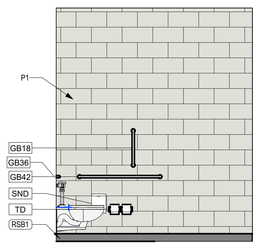


13 A-402 **INT ELEV TLT 214E - WEST**
SCALE: 3/8" = 1'-0"



12 A-402 **INT ELEV TLT 214E - SOUTH**
SCALE: 3/8" = 1'-0"



11 A-402 **INT ELEV TLT 214E - EAST**
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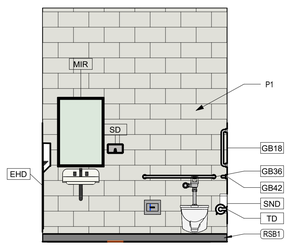
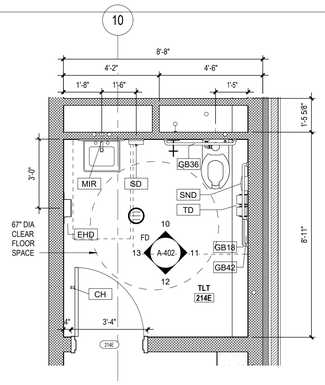
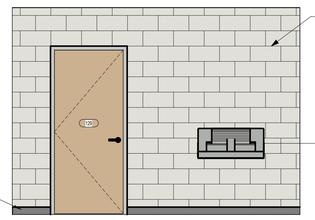


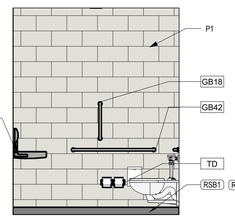
10 A-402 **INT ELEV TLT 214E - NORTH**
SCALE: 3/8" = 1'-0"



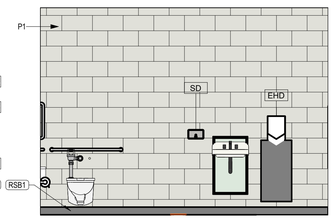
9 A-402 **ENLGD TLT PLAN - KITCHEN**
SCALE: 3/8" = 1'-0"



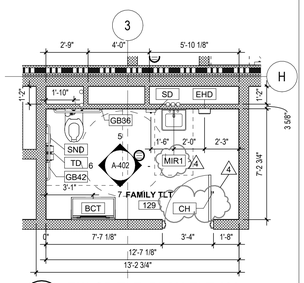
7 A-402 **INT ELEV - TLT 129 - SOUTH**
SCALE: 3/8" = 1'-0"



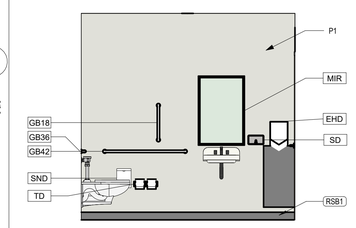
6 A-402 **INT ELEV - TLT 129 - WEST**
SCALE: 3/8" = 1'-0"



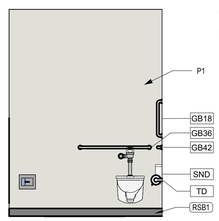
5 A-402 **INT ELEV - TLT 129 - NORTH**
SCALE: 3/8" = 1'-0"



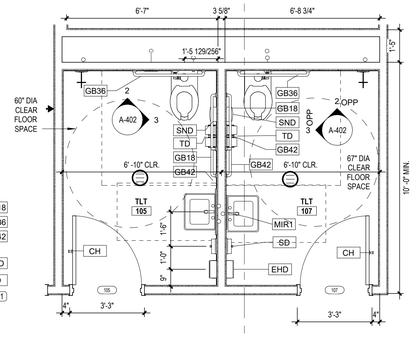
4 A-402 **ENLGD TLT PLAN-TLT 129**
SCALE: 1/4" = 1'-0"



3 A-402 **INT ELEV - TLT 105 - EAST**
SCALE: 3/8" = 1'-0"



2 A-402 **INT ELEV - TLT 105 - NORTH**
SCALE: 3/8" = 1'-0"



1 A-402 **ENLGD TLT PLAN-AREA 100 - ADMIN**
SCALE: 3/8" = 1'-0"

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Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
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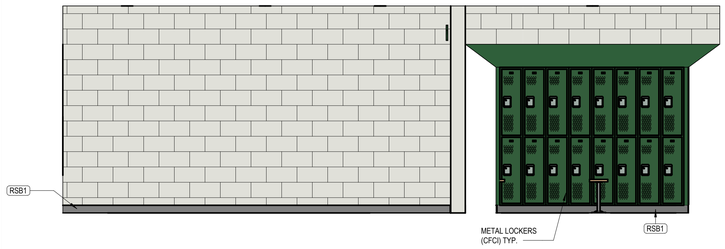

12 A-403 INT ELEV - GIRLS LKR 121 - WEST
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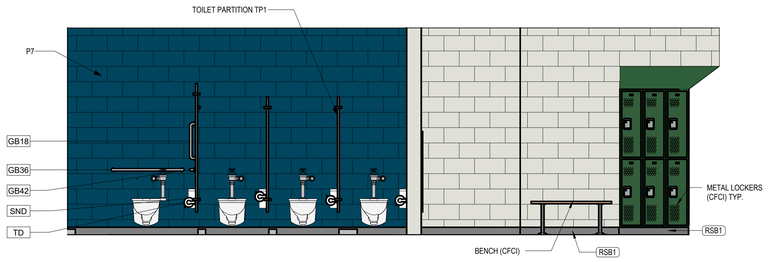

11 A-403 INT ELEV - GIRLS LKR 121 - SOUTH
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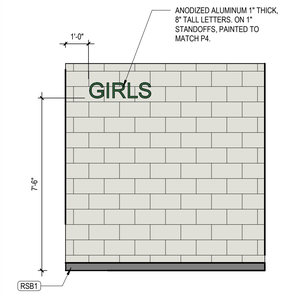

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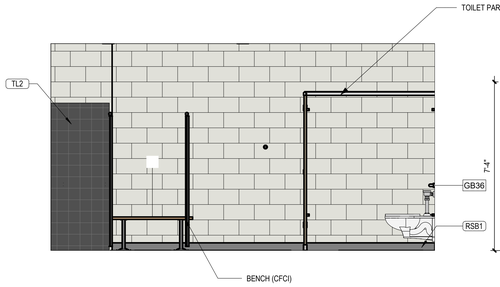

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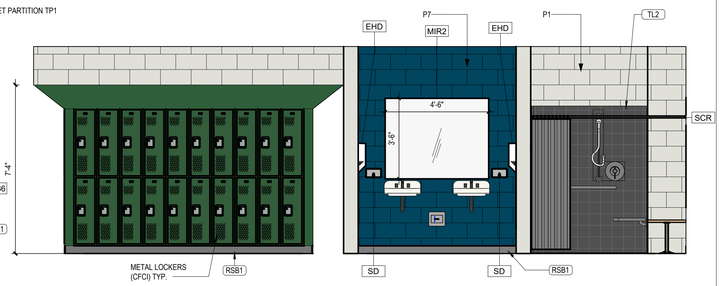

8 A-403 INT ELEV - GIRLS LKR 121 - NORTH
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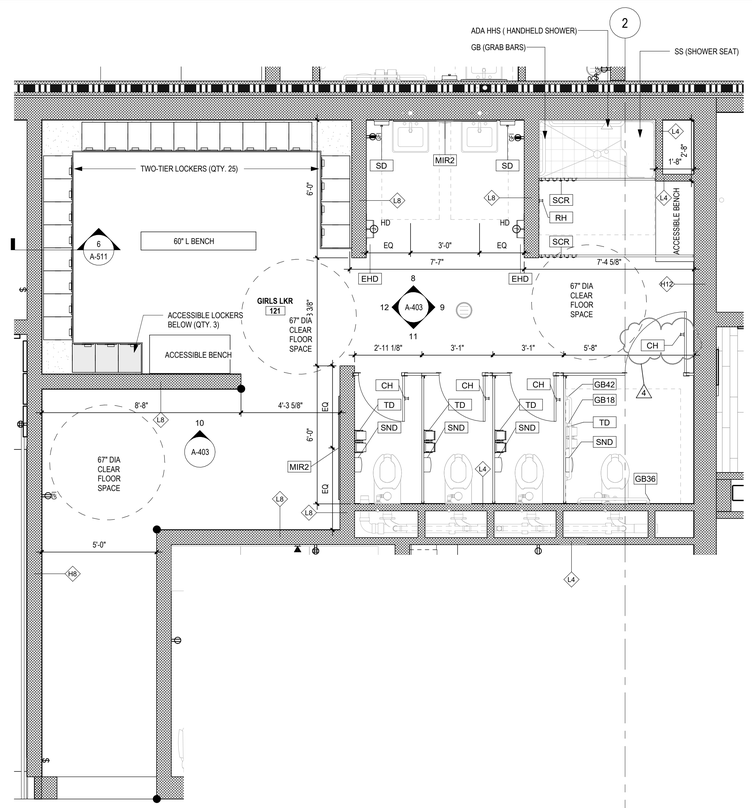

7 A-403 ENLGD PLAN - GIRLS LKR 123
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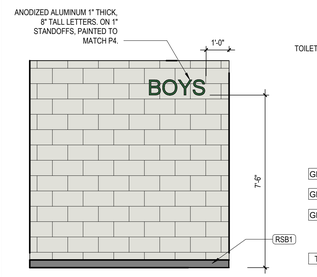
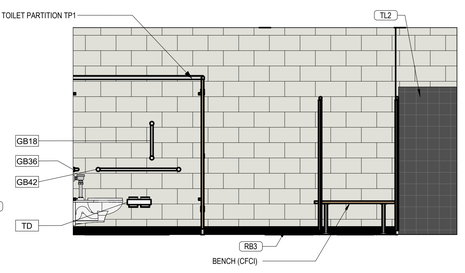


6 A-403 INT ELEV - BOYS LKR 123 - ENTRY
SCALE: 3/8" = 1'-0"



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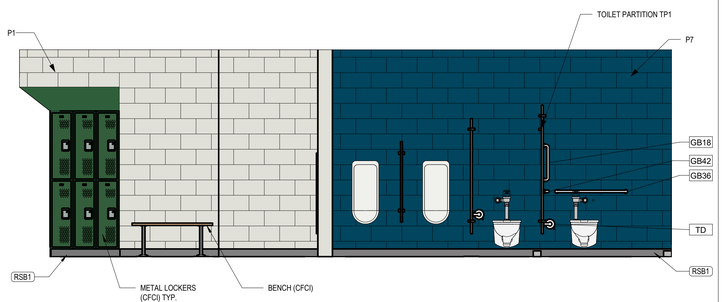
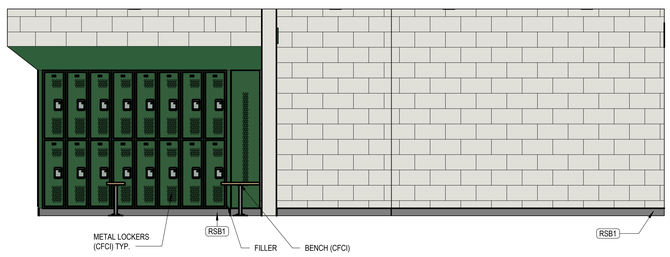
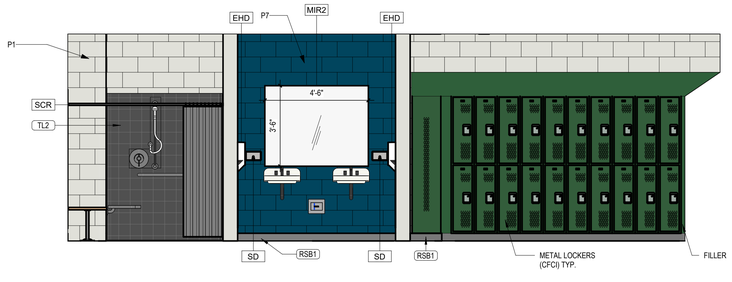


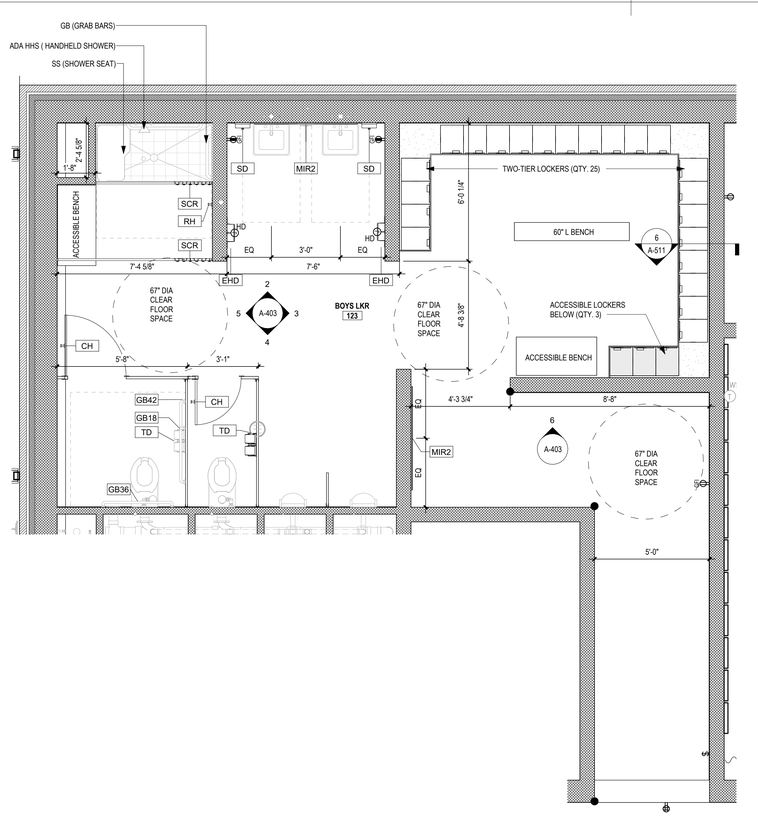
4 A-403 INT ELEV - BOYS LKR 123 - SOUTH
SCALE: 3/8" = 1'-0"



3 A-403 INT ELEV - BOYS LKR 123 - EAST
SCALE: 3/8" = 1'-0"



2 A-403 INT ELEV - BOYS LKR 123 - NORTH
SCALE: 3/8" = 1'-0"



1 A-403 ENLGD PLAN - BOYS LKR 121
SCALE: 3/8" = 1'-0"

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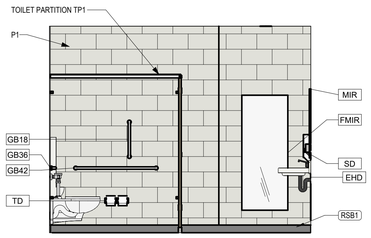
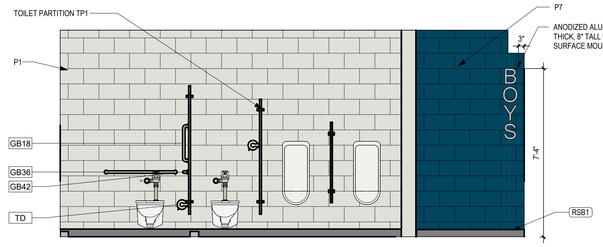


10 A-404 **INT ELEV - BOYS 206 - WEST (218 OPP)**
SCALE: 3/8" = 1'-0"



9 A-404 **INT ELEV - BOYS 206 - SOUTH (218 OPP)**
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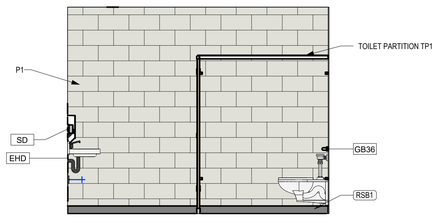

8 A-404 **INT ELEV - BOYS 206 - EAST (218 OPP)**
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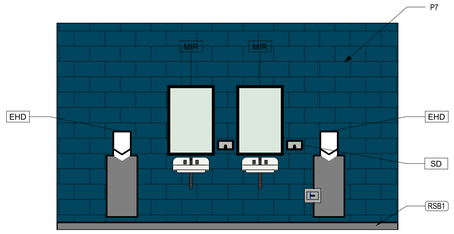

7 A-404 **INT ELEV - BOYS 206 - NORTH (218 OPP)**
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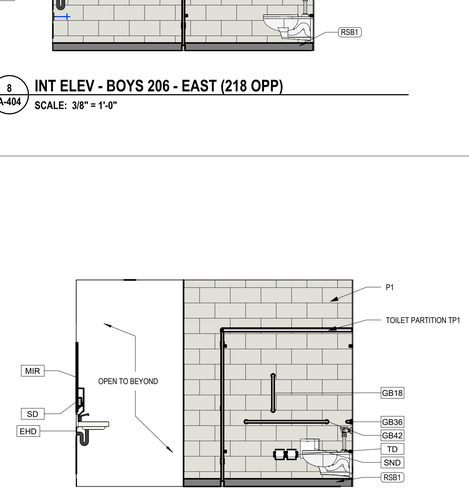
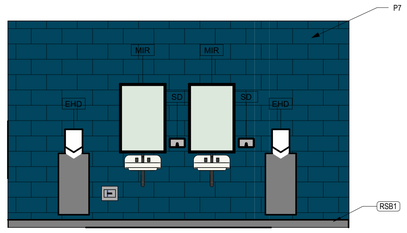


5 A-404 **INT ELEV - GIRLS 207 - WEST (217 OPP)**
SCALE: 3/8" = 1'-0"



4 A-404 **INT ELEV - GIRLS 207 - SOUTH (217 OPP)**
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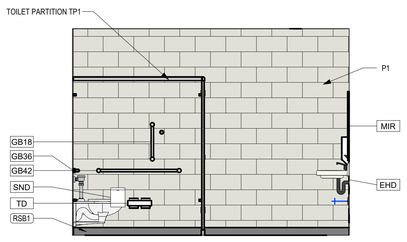
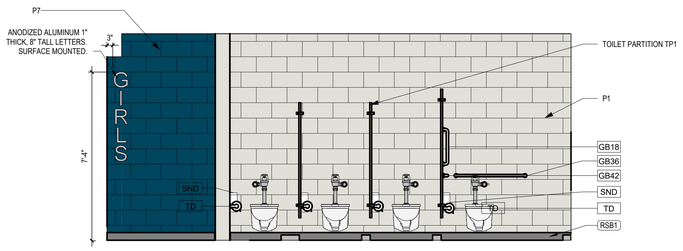
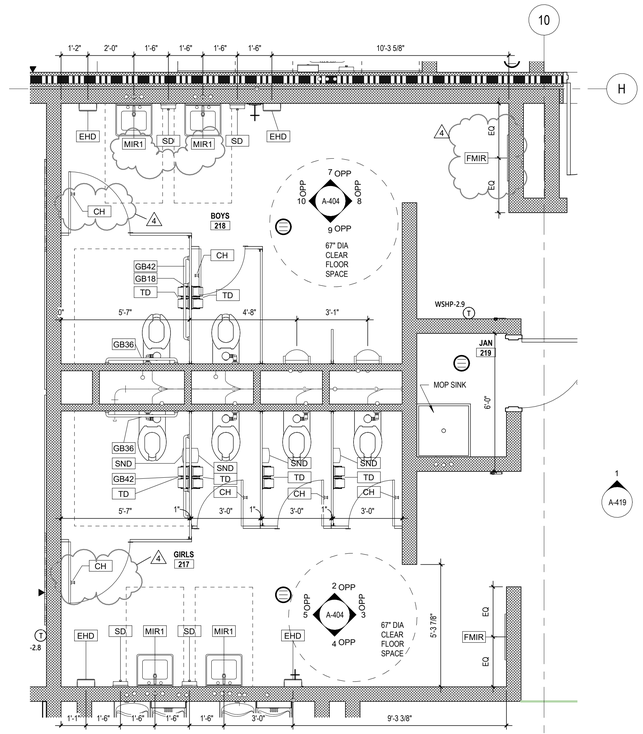


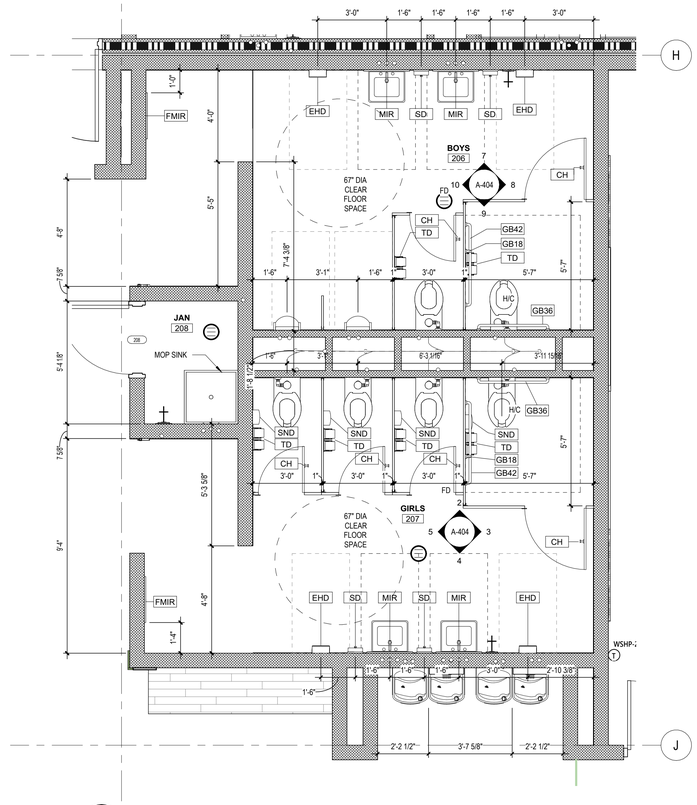
3 A-404 **INT ELEV - GIRLS 207 - EAST (217 OPP)**
SCALE: 3/8" = 1'-0"



2 A-404 **INT ELEV - GIRLS 207 - NORTH (217 OPP)**
SCALE: 3/8" = 1'-0"



6 A-404 **ENLGD TLT PLAN - 217 & 218**
SCALE: 3/8" = 1'-0"



1 A-404 **ENLGD TLT PLAN - AREA 200**
SCALE: 3/8" = 1'-0"

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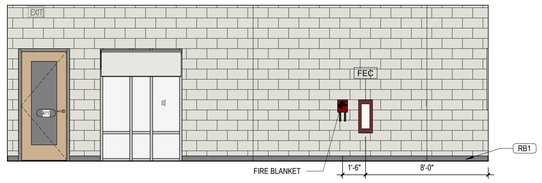
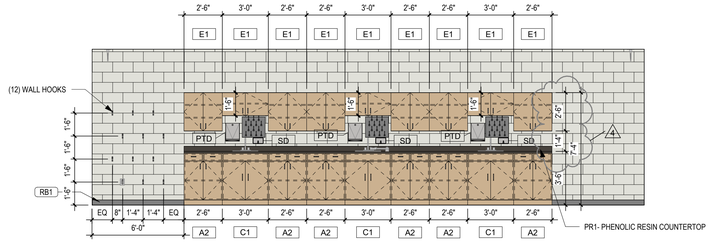
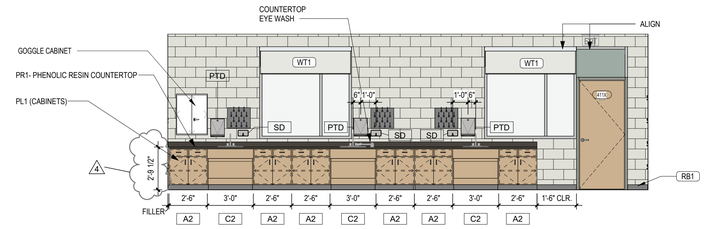


9 A-411 INT ELEV - TYP. SCIENCE CLASSROOM - WEST
SCALE: 1/4" = 1'-0"



8 A-411 INT ELEV - TYP. SCIENCE CLASSROOM - SOUTH
SCALE: 1/4" = 1'-0"



7 A-411 INT ELEV - TYP. SCIENCE CLASSROOM - EAST
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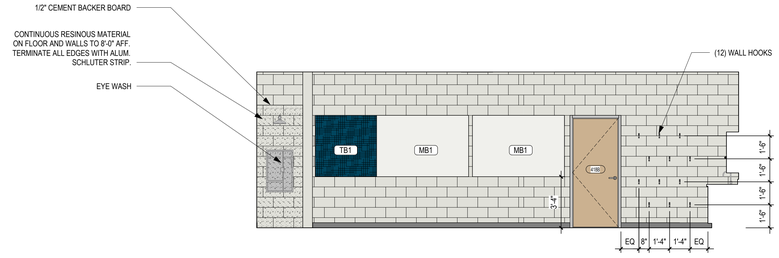

6 A-411 INT ELEV - TYP. SCIENCE CLASSROOM - NORTH
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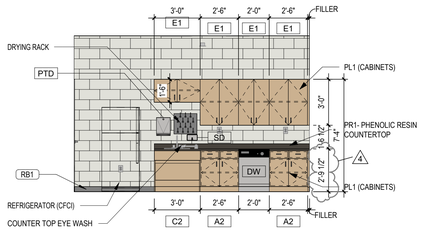

5 A-411 INT. ELEVATIONS - TYP SCIENCE PREP ROOM WEST
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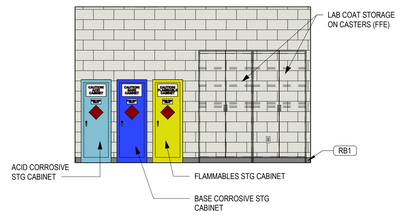

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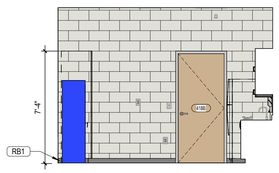

4 A-411 INT. ELEVATIONS - TYP SCIENCE PREP ROOM SOUTH
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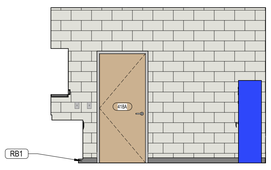

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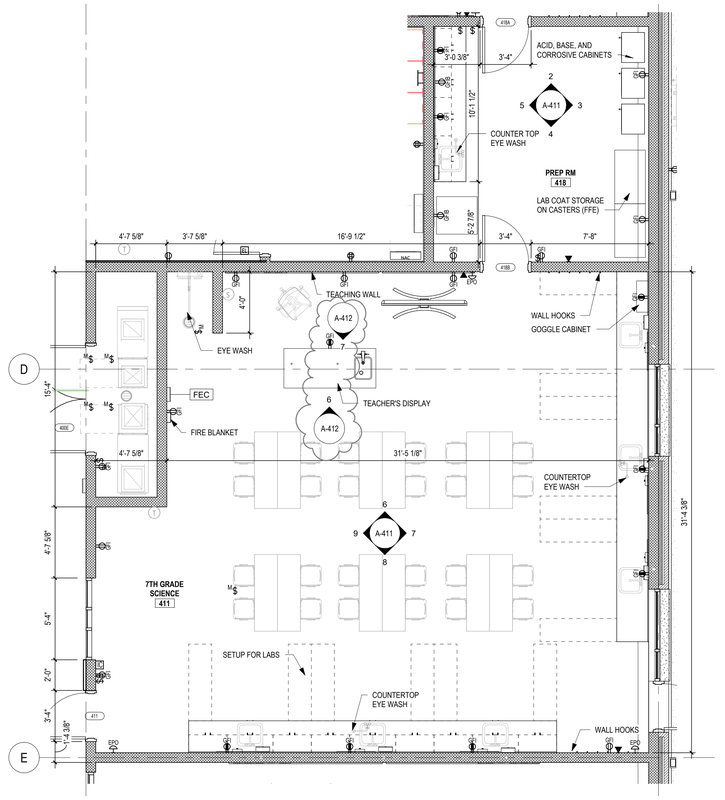


1 A-411 ENLARGED PLAN - TYP SCIENCE CLASSROOMS
SCALE: 1/4" = 1'-0"

ENLARGED SCIENCE LAB FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
TW	TEACHING WALL - SEE SHEET 401
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
4 A1	CASEWORK TAG - SEE SHEET A-512

GENERAL NOTES:

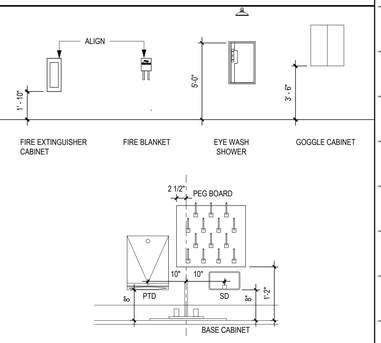
1. REFER TO A-512 FOR MORE INFORMATION.
2. ALL SCIENCE LAB AND PREP ROOM MILLWORK TO BE CHEMICAL RESISTANT PLASTIC LAMINATE WITH EPOXY RESIN COUNTERTOPS WITH 4" BACKSPLASH. REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND FOR ADDITIONAL INFORMATION.
3. ALL PREP ROOM TALL STORAGE CABINETS TO BE VENTED & LOCKABLE & LABELED AS SUCH.
4. SEE PLUMBING DRAWINGS FOR SEDIMENT FILTERS AND ACID NEUTRALIZATION SYSTEM. TO BE PROVIDED BY MILLWORK CONTRACTOR.

ENLARGED SCIENCE LAB PLANS & ELEVATIONS SCHEDULE

GENERAL CONTRACTOR TO PROVIDE ALL SCIENCE CLASSROOMS WITH THE SAFETY EQUIPMENT BELOW TO BE STORED IN THE CLASSROOM AND/OR PREP ROOM:

- WALL HOOKS - BOD: TOUGHOOK STANDARD (ONE PER STUDENT)
- FIRE EXTINGUISHER CABINET (ONE PER CLASSROOM AND PREP ROOM)
- FIRE BLANKET CABINET - BOD: LARSEN - FB1016 (ONE PER CLASSROOM)
- FLAMMABLES, ACID CORROSIVE, AND BASE CORROSIVE STORAGE CABINETS (ONE EACH PER PREP ROOM)
- REFRIGERATOR (ONE PER PREP ROOM)
- DISHWASHER (ONE PER PREP ROOM, REF. INTERIOR SIGNAGE DETAILS FOR REQ'D SIGNAGE)
- GOGGLE CABINET - WITH ONE PAIR OF GOGGLES PER STUDENT (ONE PER CLASSROOM)
- DRYING RACK (ONE PER SINK IN CLASSROOMS AND PREP ROOM)
- TEACHER'S DISPLAY PLUMBING, ELECTRIC, AND ACCESSORIES
- MOBILE LAB COAT STORAGE - ONE CHEMICAL & FIRE RESISTANT APRON/LAB COAT PER STUDENT (ONE PER CLASSROOM, TO BE STORED IN PREP ROOM)
- SPILL CONTROL CENTER (ONE PER PREP ROOM)
- SAFETY SHIELDS (ONE PER STUDENT)
- HEAT AND ACID RESISTANT GLOVES (ONE PAIR PER STUDENT)
- BROKEN GLASS DISPOSAL CONTAINER (ONE PER PREP ROOM)

SCIENCE LAB EQUIPMENT MOUNTING HEIGHT LEGEND



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EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
2	03/05/2025	BID ADDENDUM 1
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: RLH
CHECKED BY: MK

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ENLARGED PLANS & INTERIOR ELEVATIONS - SCIENCE LABS

A-411

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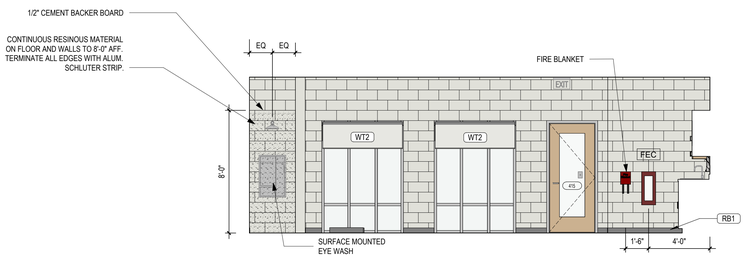
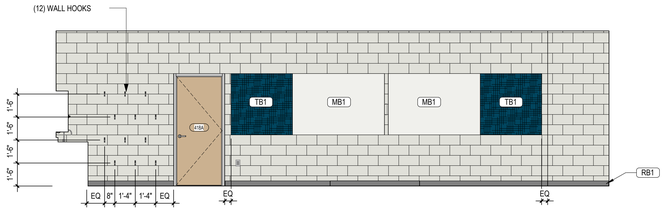


5 A-412 **INT ELEV - TYP. SCIENCE CLASSROOM - WEST**
SCALE: 1/4" = 1'-0"



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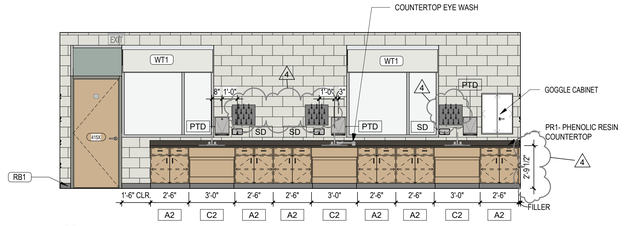

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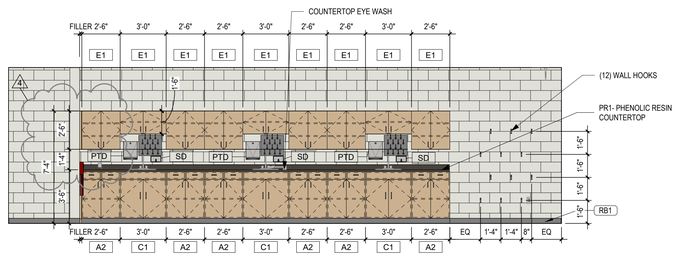

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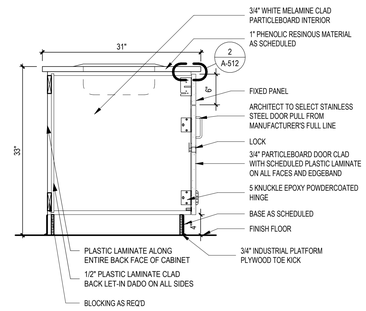

10 A-412 **TEACHER'S DISPLAY - SINK**
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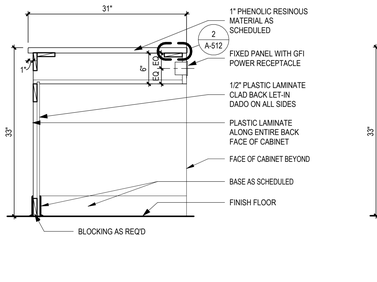

9 A-412 **TEACHER'S DISPLAY - KNEE SPACE**
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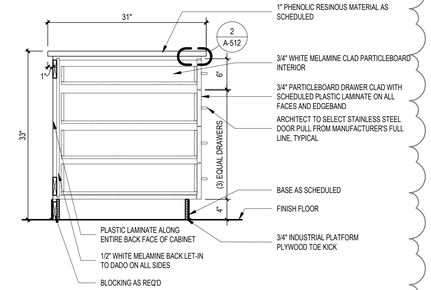

8 A-412 **TEACHER'S DISPLAY - DRAWERS**
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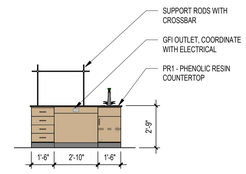

7 A-412 **TEACHER'S DISPLAY - BACK**
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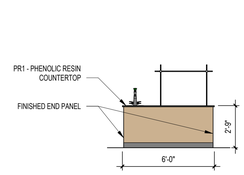

6 A-412 **TEACHER'S DISPLAY - FRONT**
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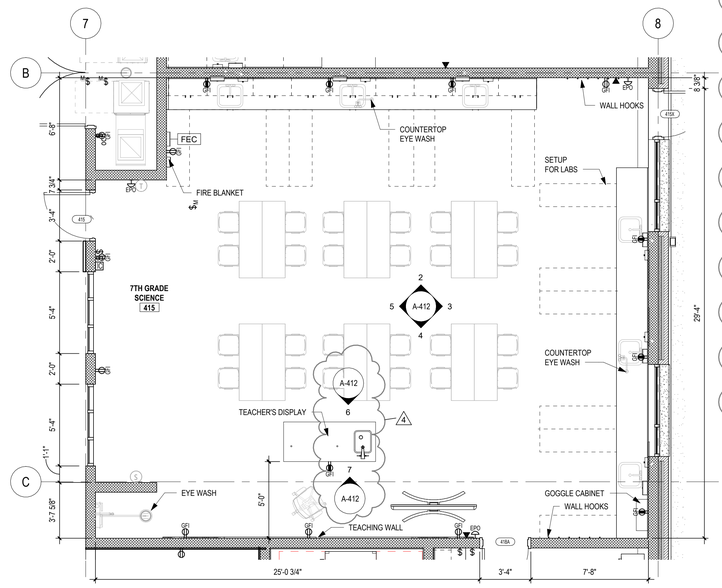


1 A-412 **ENLARGED PLAN - TYP SCIENCE CLASSROOMS**
SCALE: 1/4" = 1'-0"

ENLARGED SCIENCE LAB FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL
TW	TEACHING WALL - SEE SHEET 401
CJ	CONTROL JOINT - SEE DETAIL A-010
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
W2	STOREFRONT (CURTAIN WALL) TAG - SEE SHEET A-611 AND FLOOR PLANS
	WINDOW TAG - SEE SHEET A-611 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
A1	CASEWORK TAG - SEE SHEET A-512

GENERAL NOTES:

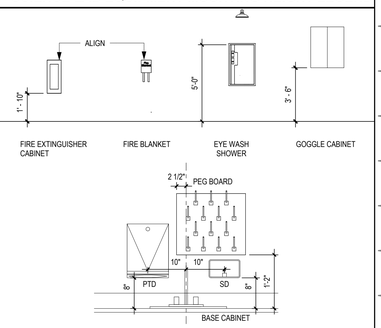
1. REFER TO A-512 FOR MORE INFORMATION.
2. ALL SCIENCE LAB AND PREP ROOM MILLWORK TO BE CHEMICAL RESISTANT PLASTIC LAMINATE WITH EPOXY RESIN COUNTERTOPS WITH 4" BACKSPLASH. REFER TO SPECIFICATIONS AND INTERIOR FINISH LEGEND FOR ADDITIONAL INFORMATION.
3. ALL PREP ROOM TALL STORAGE CABINETS TO BE VENTED & LOCKABLE & LABELED AS SUCH.
4. SEE PLUMBING DRAWINGS FOR SEDIMENT FILTERS AND ACID NEUTRALIZATION SYSTEM. TO BE PROVIDED BY MILLWORK CONTRACTOR.

ENLARGED SCIENCE LAB PLANS & ELEVATIONS SCHEDULE

GENERAL CONTRACTOR TO PROVIDE ALL SCIENCE CLASSROOMS WITH THE SAFETY EQUIPMENT BELOW TO BE STORED IN THE CLASSROOM AND/OR PREP ROOM:

- WALL HOOKS - BOD: TOUGHOOK STANDARD (ONE PER STUDENT)
- FIRE EXTINGUISHER CABINET (ONE PER CLASSROOM AND PREP ROOM)
- FIRE BLANKET CABINET - BOD: LARSEN - FB1016 (ONE PER CLASSROOM)
- FLAMMABLES, ACID CORROSIVE, AND BASE CORROSIVE STORAGE CABINETS (ONE EACH PER PREP ROOM)
- REFRIGERATOR (ONE PER PREP ROOM)
- DISHWASHER (ONE PER PREP ROOM, REF. INTERIOR SIGNAGE DETAILS FOR REQ'D SIGNAGE)
- GOGGLE CABINET - WITH ONE PAIR OF GOGGLES PER STUDENT (ONE PER CLASSROOM)
- DRYING RACK (ONE PER SINK IN CLASSROOMS AND PREP ROOM)
- TEACHER'S DISPLAY PLUMBING, ELECTRIC, AND ACCESSORIES
- MOBILE LAB COAT STORAGE - ONE CHEMICAL & FIRE RESISTANT APRON/LAB COAT PER STUDENT (ONE PER CLASSROOM, TO BE STORED IN PREP ROOM)
- SPILL CONTROL CENTER (ONE PER PREP ROOM)
- SAFETY SHIELDS (ONE PER STUDENT)
- HEAT AND ACID RESISTANT GLOVES (ONE PAIR PER STUDENT)
- BROKEN GLASS DISPOSAL CONTAINER (ONE PER PREP ROOM)

SCIENCE LAB EQUIPMENT MOUNTING HEIGHT LEGEND



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A-412

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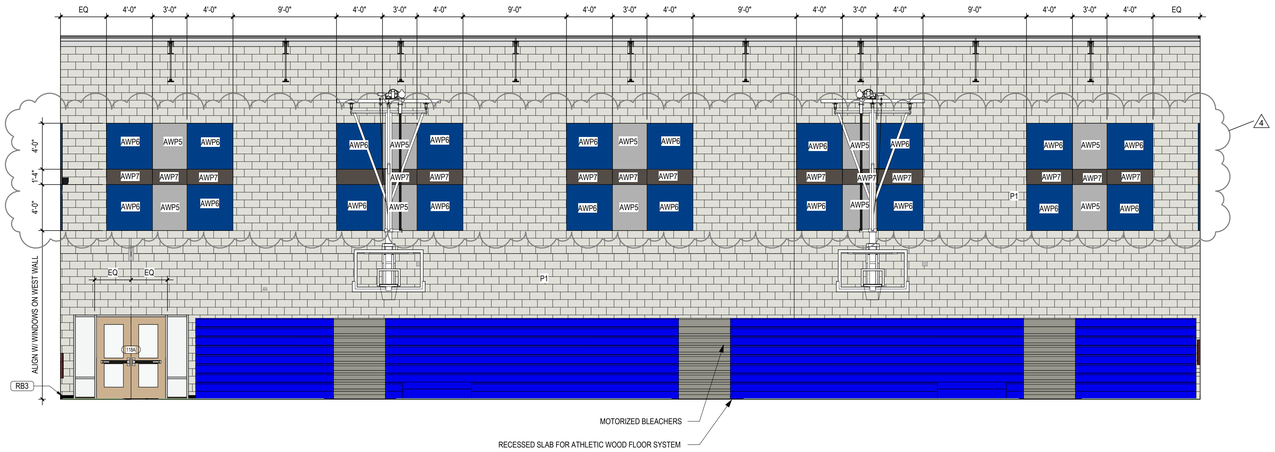

7 A-413 **INT ELEV - GYM - EAST**
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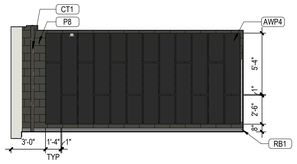

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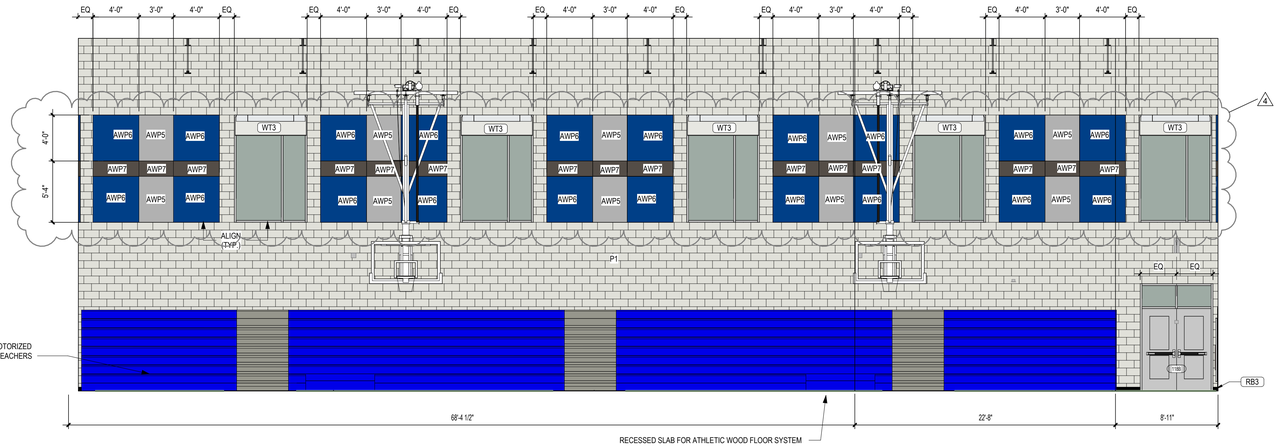

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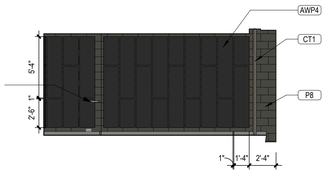

5 A-413 **INT ELEV- PLATFORM EAST**
SCALE: 3/16" = 1'-0"

4 A-413 **INT ELEV - PLATFORM -NORTH**
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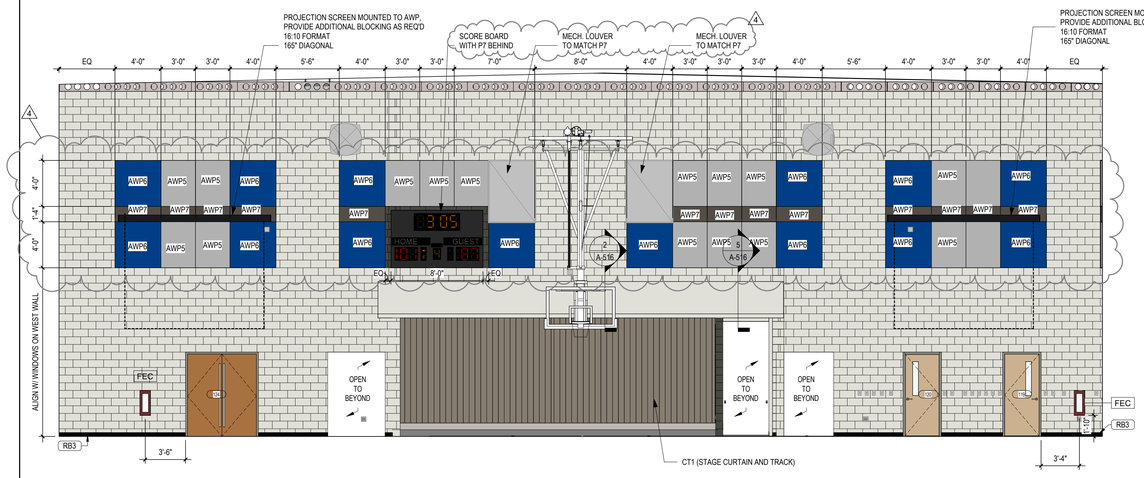

2 A-413 **INT ELEV - GYM - NORTH**
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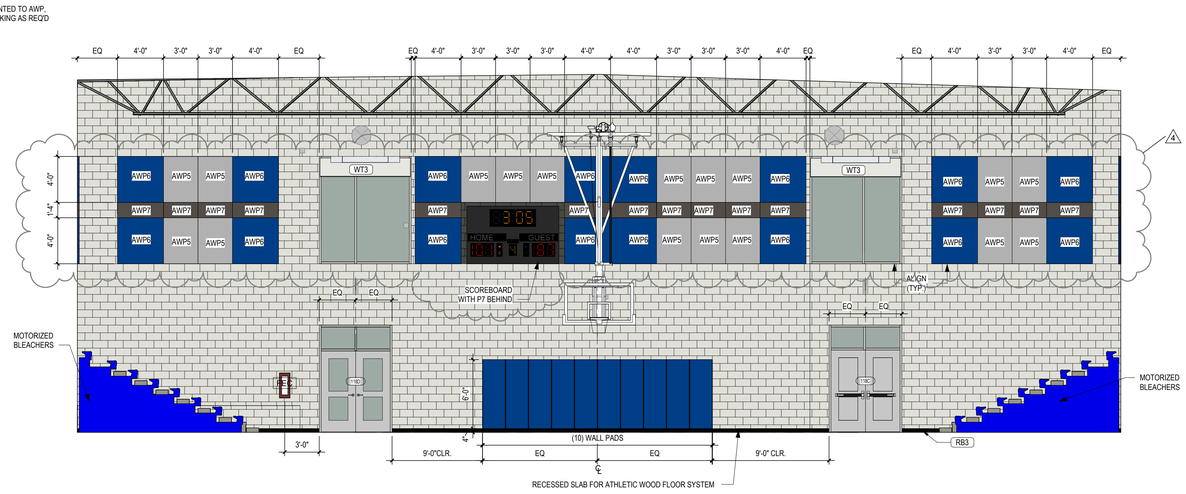

1 A-413 **INT ELEV - GYM - SOUTH**
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INTERIOR ELEVATIONS - GYM

A-413

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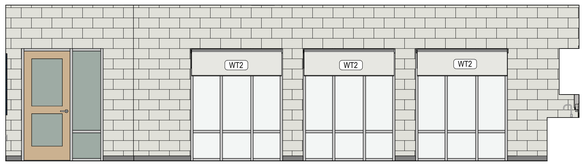

18 A-414 **INT ELEV - ART 215 - SOUTH**
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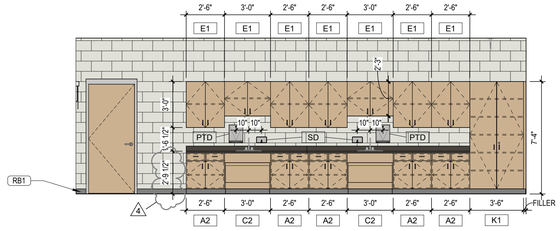

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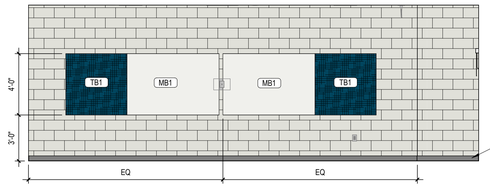

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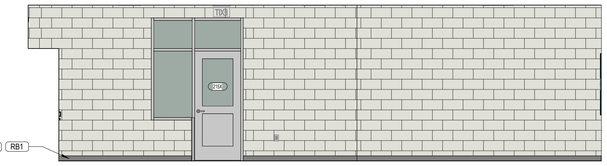

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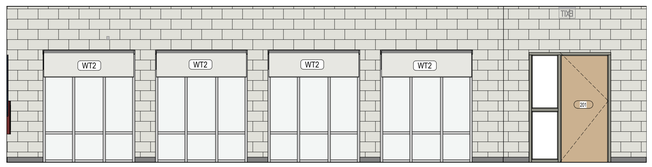

14 A-414 **INT ELEV - HEALTH/PE 201 - SOUTH**
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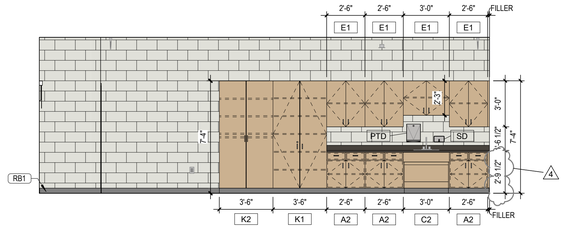

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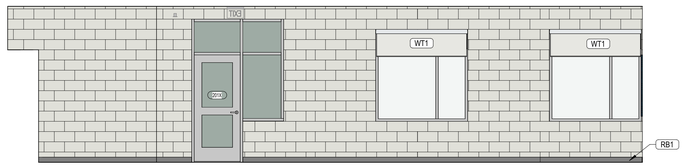

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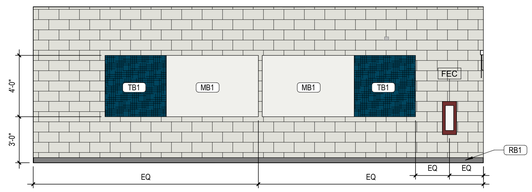

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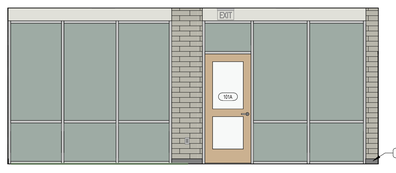

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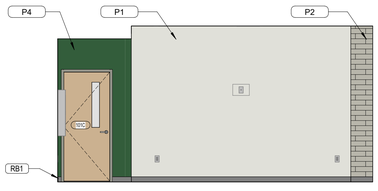

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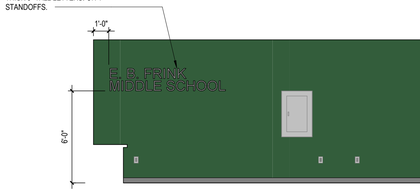

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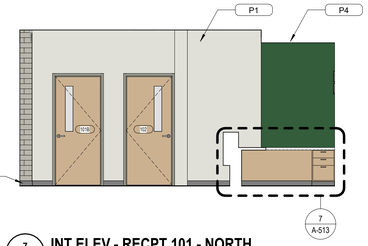

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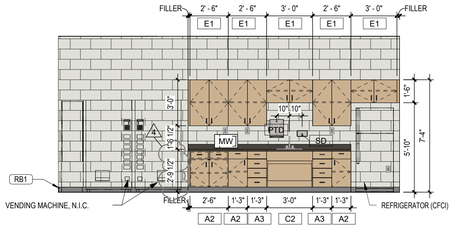

6 A-414 **INT ELEV - MAILROOM 115 - NORTH**
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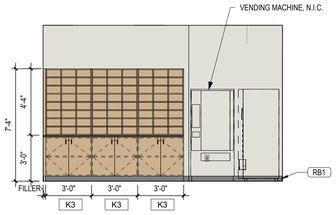

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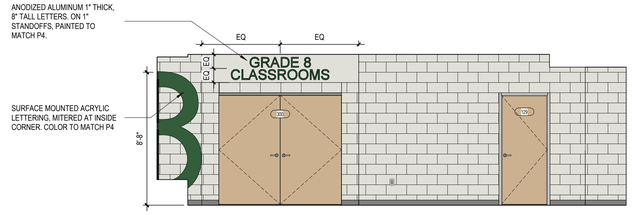

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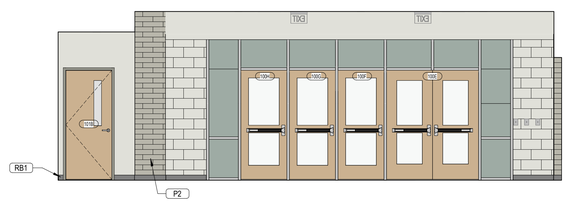

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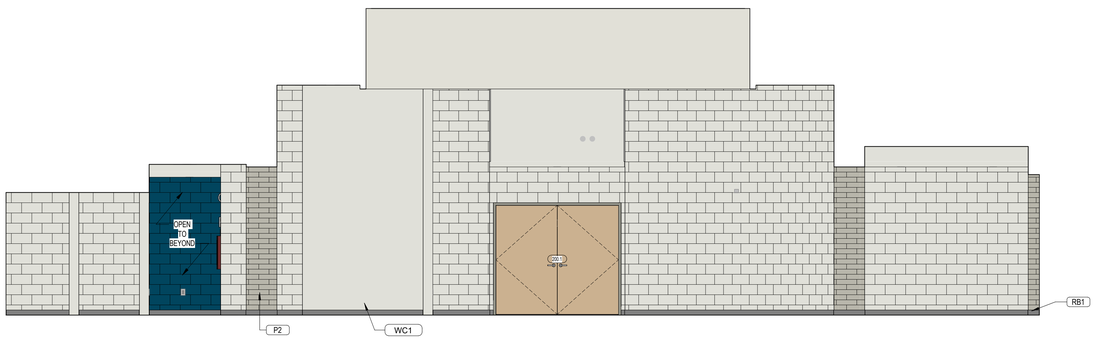

2 A-414 **INT ELEV - LOBBY 100A - EAST**
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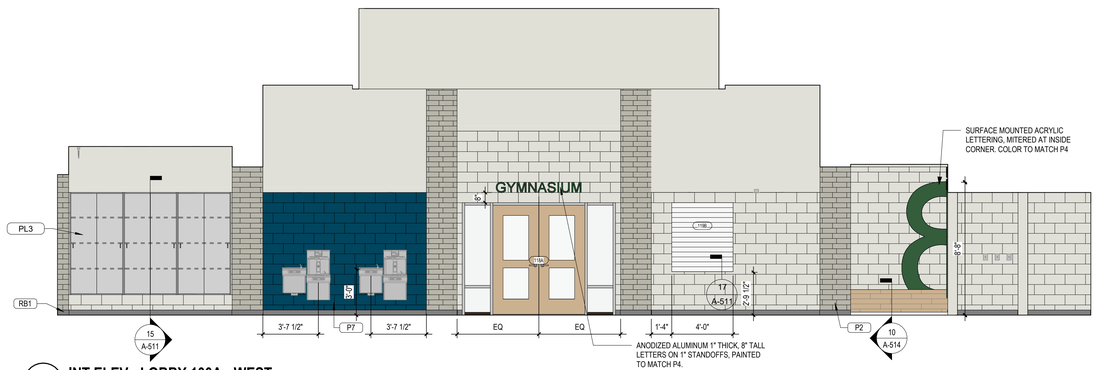

1 A-414 **INT ELEV - LOBBY 100A - WEST**
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ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: RLH
CHECKED BY: MK

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INTERIOR ELEVATIONS - AREA 100/200

A-414

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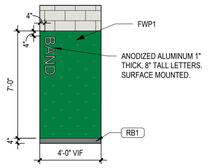

12 A-415 **INT ELEV - BAND 605 - ENTRY**
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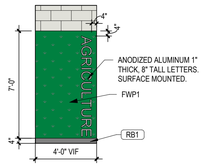

11 A-415 **INT ELEV - AGRI LAB 606 - ENTRY**
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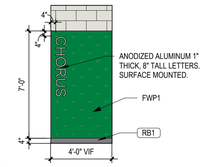

10 A-415 **INT ELEV - CHORUS 604 - ENTRY**
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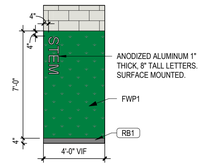

9 A-415 **INT ELEV - STEM 603 - ENTRY**
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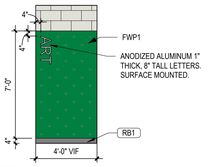

8 A-415 **INT ELEV - ART 215 - ENTRY**
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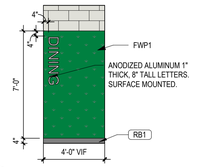

7 A-415 **INT ELEV - DINING 212 - ENTRY**
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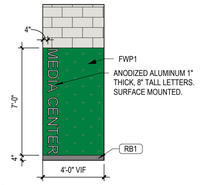

6 A-415 **INT ELEV - MEDIA 204 - ENTRY**
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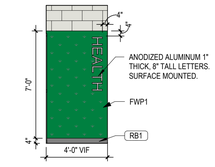

5 A-415 **INT ELEV - HEALTH 201 - ENTRY**
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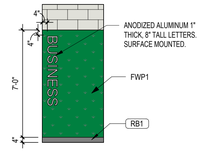

13 A-415 **INT ELEV - BUSINESS EDU ENTRY**
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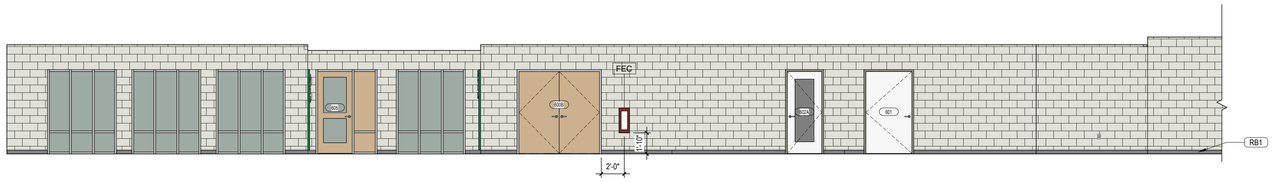
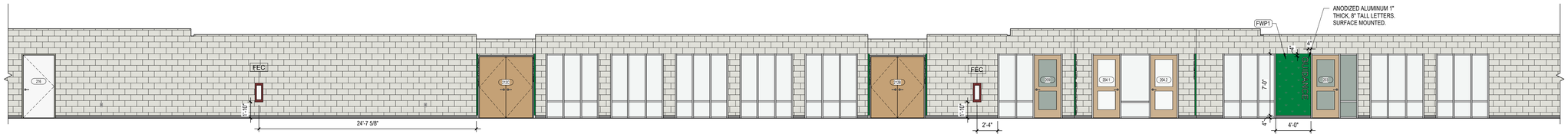


4 A-415 **INT ELEV - CORRIDOR 200 - SOUTH CONT.**
SCALE: 3/16" = 1'-0"



3 A-415 **INT ELEV - CORRIDOR 200 - SOUTH**
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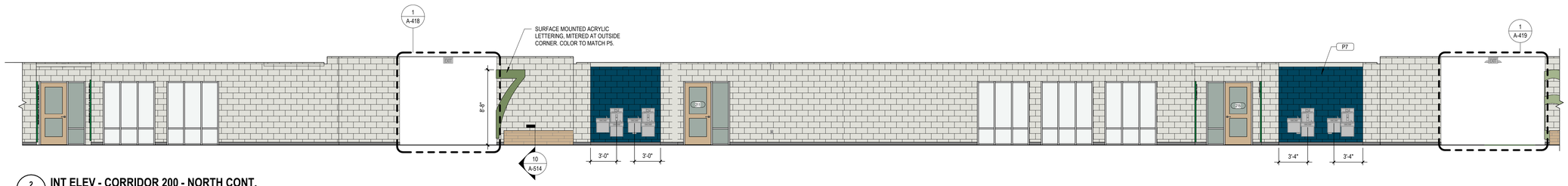
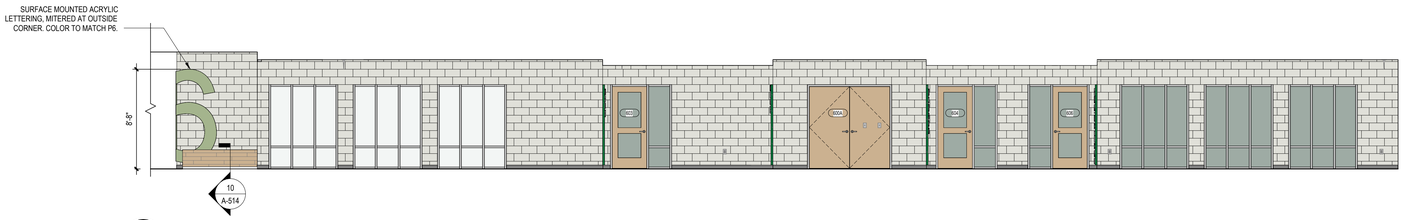


2 A-415 **INT ELEV - CORRIDOR 200 - NORTH CONT.**
SCALE: 3/16" = 1'-0"



1 A-415 **INT ELEV - CORRIDOR 200 - NORTH**
SCALE: 3/16" = 1'-0"

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FAYETTEVILLE N.C.

Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 02/18/2025
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INTERIOR ELEVATIONS - AREA 200

A-415

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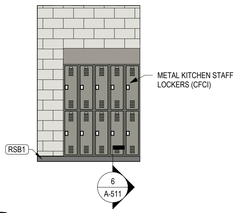

13 A-416 **INT ELEV - LCKRS 214F**
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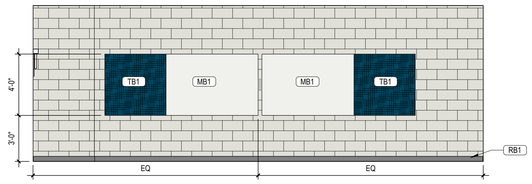
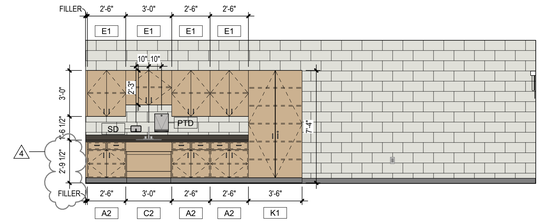


12 A-416 **INT ELEV - BUSINESS EDU 202 - WEST**
SCALE: 1/4" = 1'-0"

11 A-416 **INT ELEV - BUSINESS EDU 202 - SOUTH**
SCALE: 1/4" = 1'-0"



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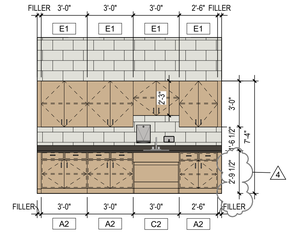

9 A-416 **MEDIA WKRM 204A**
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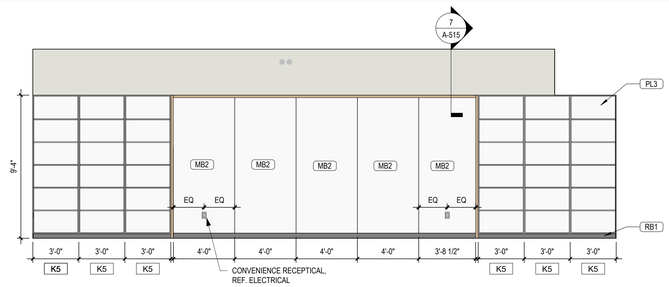

8 A-416 **INT ELEV - MEDIA 204 - WEST**
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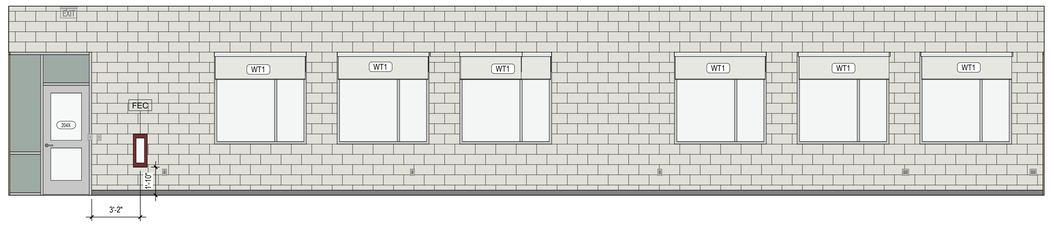

7 A-416 **INT ELEV - MEDIA 204 - SOUTH**
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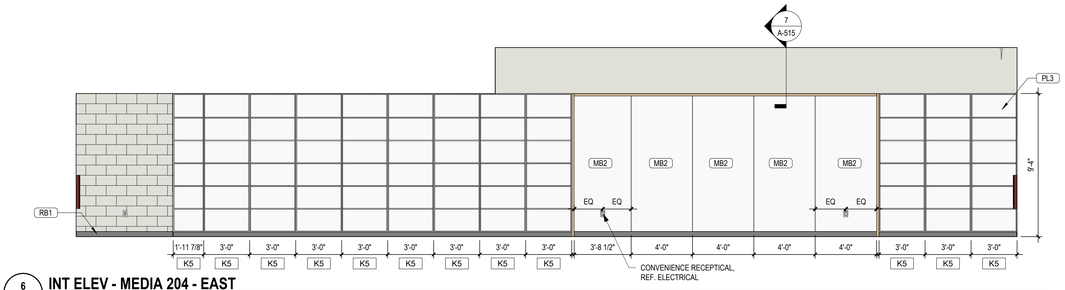

6 A-416 **INT ELEV - MEDIA 204 - EAST**
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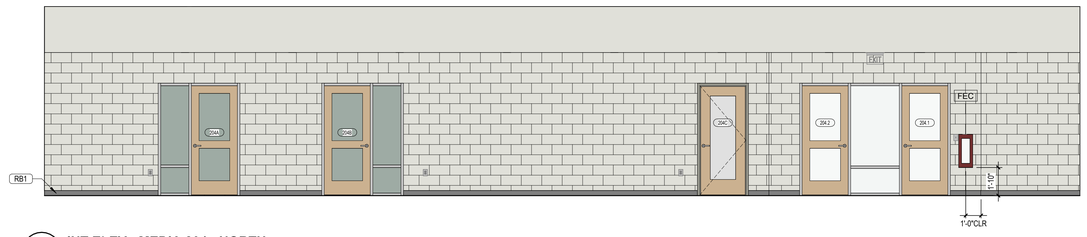

5 A-416 **INT ELEV - MEDIA 204 - NORTH**
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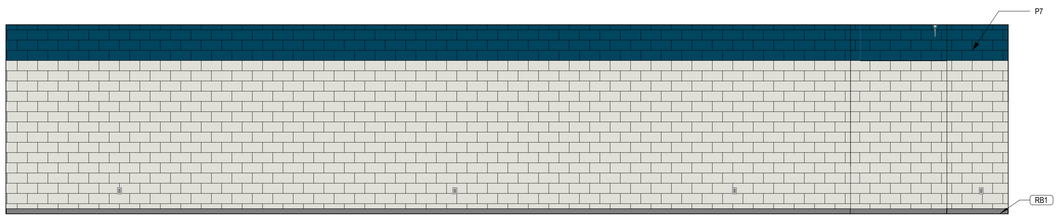

4 A-416 **INT ELEV - DINING 212 - WEST**
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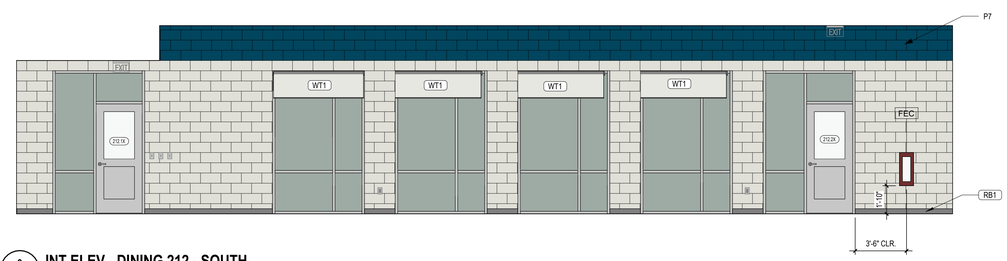

3 A-416 **INT ELEV - DINING 212 - SOUTH**
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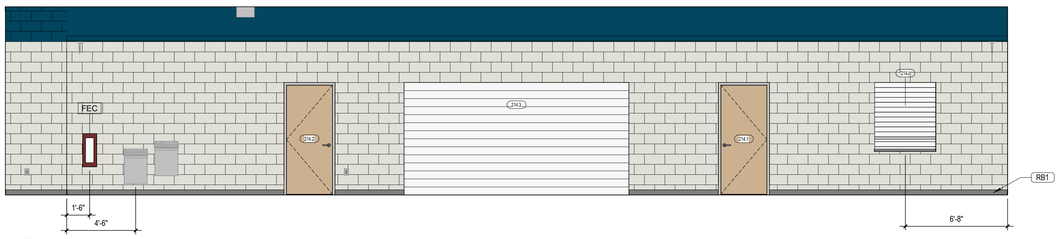

2 A-416 **INT ELEV - DINING 212 - EAST**
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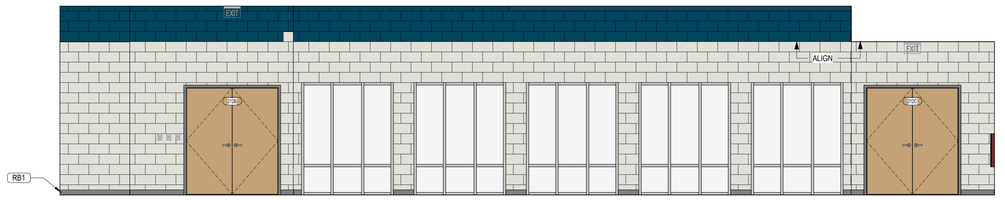

1 A-416 **INT ELEV - DINING 212 - NORTH**
SCALE: 1/4" = 1'-0"

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Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

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4	04/17/2025	BID ADDENDUM 3

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INTERIOR ELEVATIONS - AREA 200

A-416

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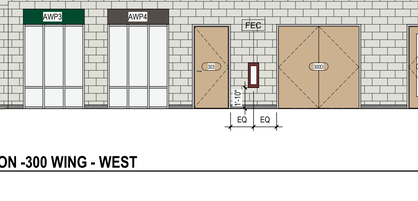
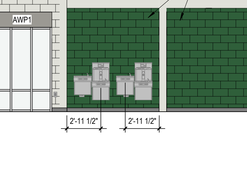
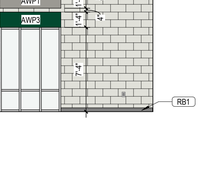


10 A-417 **INT ELEV - SENSORY RM 301 - SOUTH**
SCALE: 1/4" = 1'-0"



9 A-417 **INT ELEV - SENSORY RM 301 - EAST**
SCALE: 1/4" = 1'-0"

8 A-417 **INT ELEV - SENSORY RM 301 - NORTH**
SCALE: 1/4" = 1'-0"

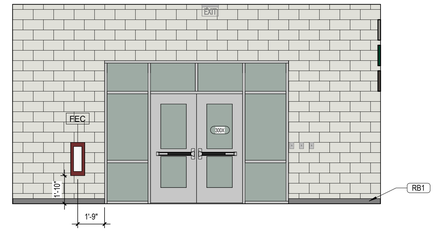


7 A-417 **INT ELEV - SENSORY RM 301 - WEST**
SCALE: 1/4" = 1'-0"

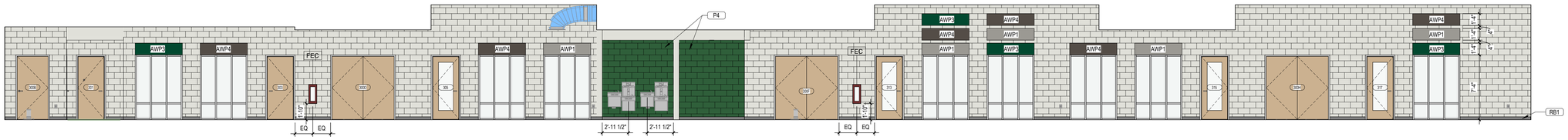
6 A-417 **INT ELEV - TEAM RM 314 - SOUTH**
SCALE: 1/4" = 1'-0"

5 A-417 **INT ELEV - TEAM RM 314 - NORTH**
SCALE: 1/4" = 1'-0"

4 A-417 **INT ELEV - COLLABORATION - 300 WING - SOUTH**
SCALE: 1/4" = 1'-0"



3 A-417 **INT ELEV - COLLABORATION - 300 WING - NORTH**
SCALE: 1/4" = 1'-0"



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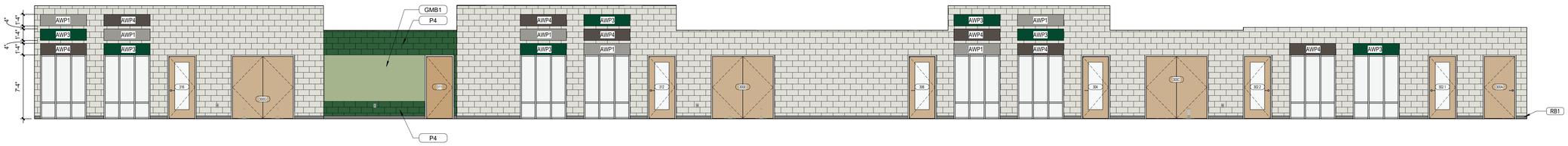
SCALE: 3/16" = 1'-0"



1 A-417 **INT ELEV - COLLABORATION - 300 WING - EAST**
SCALE: 3/16" = 1'-0"

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INTERIOR ELEVATIONS - AREA 300

A-417

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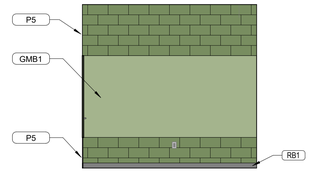
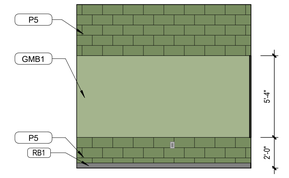


9 A-418 **INT ELEV - TEAM ROOM 413 - SOUTH**
SCALE: 1/4" = 1'-0"



8 A-418 **INT ELEV - TEAM ROOM 413 - NORTH**
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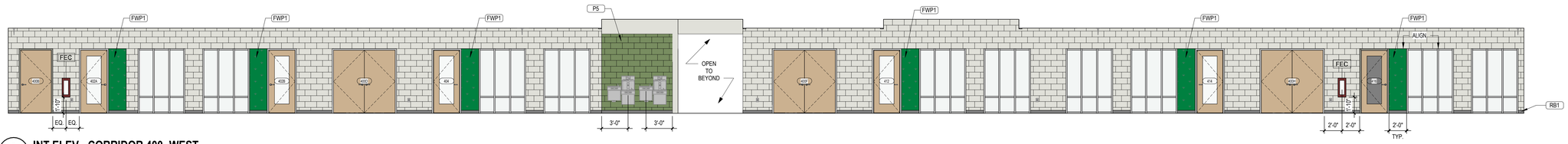
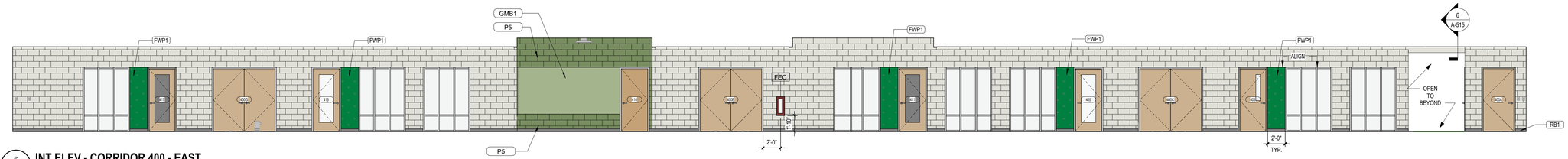
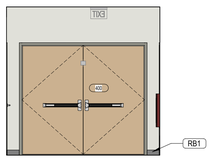


7 A-418 **INT ELEV - CORRIDOR 400 -WEST**
SCALE: 3/16" = 1'-0"



6 A-418 **INT ELEV - CORRIDOR 400 - EAST**
SCALE: 3/16" = 1'-0"



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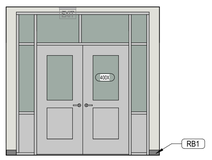
SCALE: 1/4" = 1'-0"



4 A-418 **INT ELEV - CORRIDOR 400 - NORTH**
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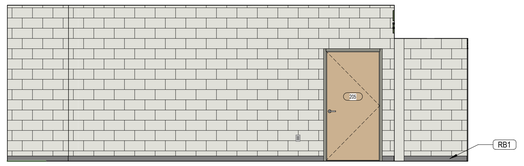

3 A-418 **INT ELEV - CORRIDOR 400 ENTRY - WEST**
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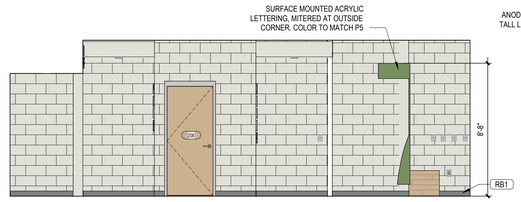
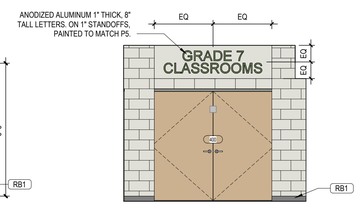


2 A-418 **INT ELEV - CORRIDOR 400 ENTRY - EAST**
SCALE: 1/4" = 1'-0"



1 A-418 **INT ELEV - CORRIDOR 400 ENTRY - NORTH**
SCALE: 1/4" = 1'-0"

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Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
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INTERIOR ELEVATIONS - AREA 400

A-418

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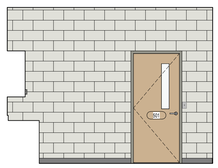

13 A-419 **RESOURCE ROOM - WEST**
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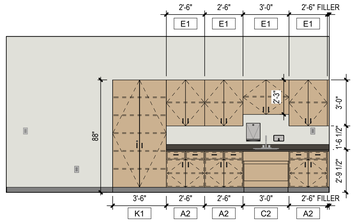
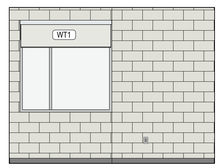
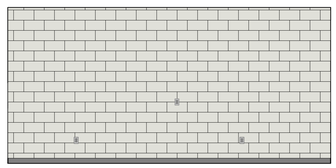


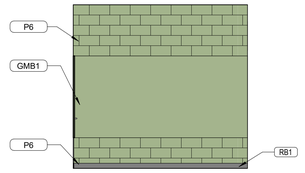
12 A-419 **RESOURCE ROOM - SOUTH**
SCALE: 1/4" = 1'-0"



11 A-419 **RESOURCE ROOM - EAST**
SCALE: 1/4" = 1'-0"



10 A-419 **RESOURCE ROOM - NORTH**
SCALE: 1/4" = 1'-0"



9 A-419 **INT ELEV - TEAM ROOM 513 - SOUTH**
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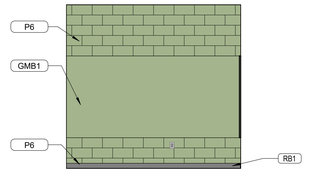
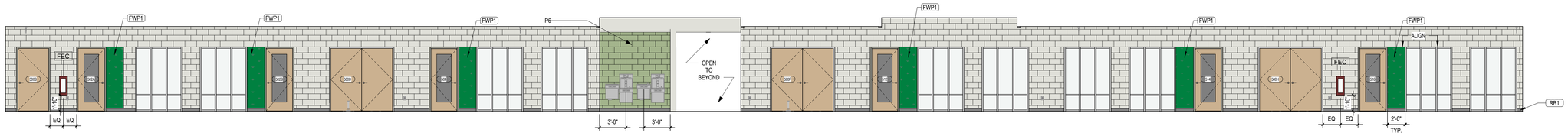


8 A-419 **INT ELEV - TEAM ROOM 513 - NORTH**
SCALE: 1/4" = 1'-0"



7 A-419 **INT ELEV - CORRIDOR 500 - WEST**
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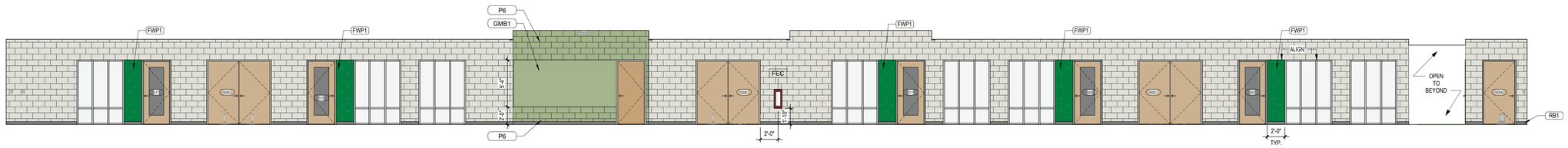
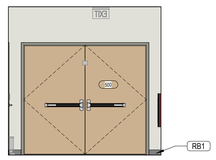


6 A-419 **INT ELEV - CORRIDOR 500 - EAST**
SCALE: 3/16" = 1'-0"



5 A-419 **INT ELEV - CORRIDOR 500 - SOUTH**
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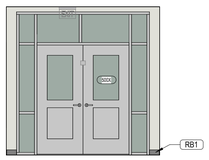

4 A-419 **INT ELEV - CORRIDOR 500 - NORTH**
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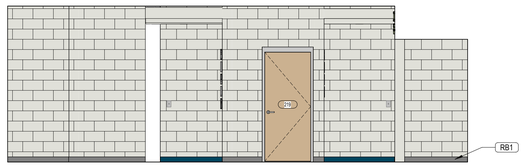

3 A-419 **INT ELEV - CORRIDOR 500 ENTRY - WEST**
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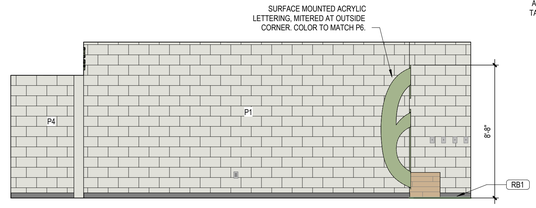

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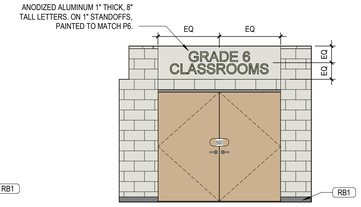

1 A-419 **INT ELEV - CORRIDOR 500 ENTRY - NORTH**
SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS - AREA 500

A-419

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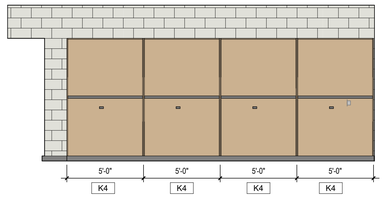

19 A-420 **INT ELEVATION- BAND STG 605A WEST**
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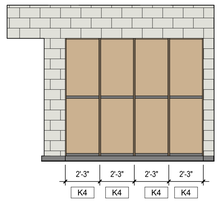
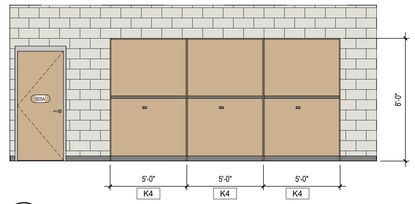


18 A-420 **INT ELEVATION- BAND STG. 605A SOUTH**
SCALE: 1/4" = 1'-0"



17 A-420 **INT ELEVATION - BAND STG 505A - EAST**
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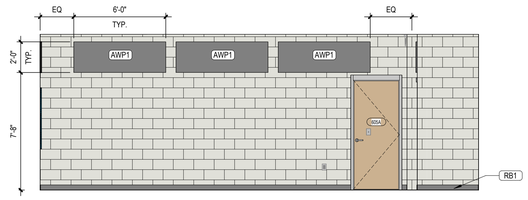

16 A-420 **INT ELEV - BAND 605 - WEST**
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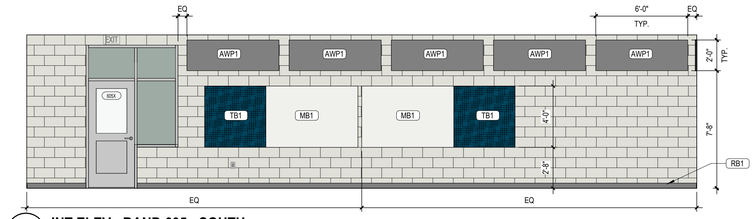

15 A-420 **INT ELEV - BAND 605 - SOUTH**
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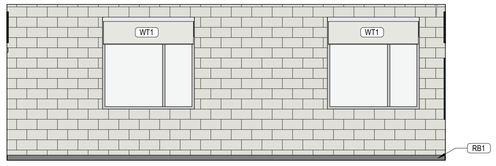

14 A-420 **INT ELEV - BAND 605 - EAST**
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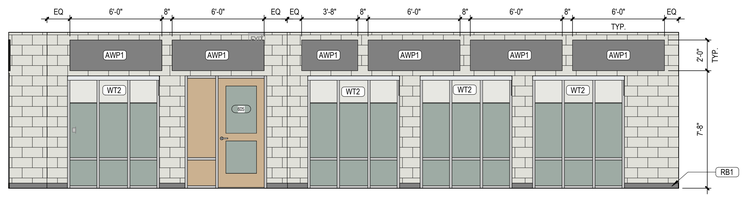
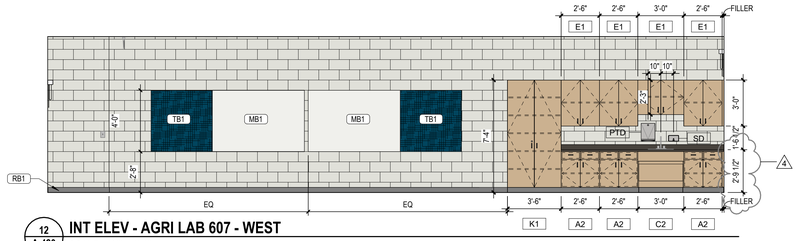
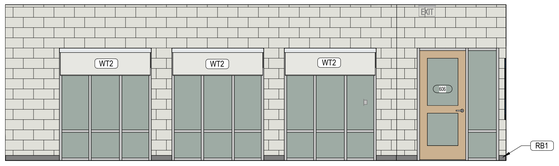


13 A-420 **INT ELEV - BAND 605 - NORTH**
SCALE: 1/4" = 1'-0"



12 A-420 **INT ELEV - AGRI LAB 607 - WEST**
SCALE: 1/4" = 1'-0"



11 A-420 **INT ELEV - AGRI LAB 607 - SOUTH**
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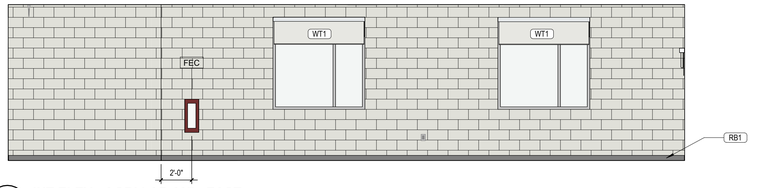

10 A-420 **INT ELEV - AGRI LAB 607 - EAST**
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9 A-420 **INT ELEV - AGRI LAB 607 - NORTH**
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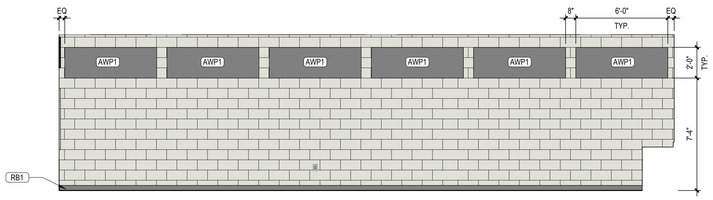

8 A-420 **INT ELEV - CHORUS 606 - WEST**
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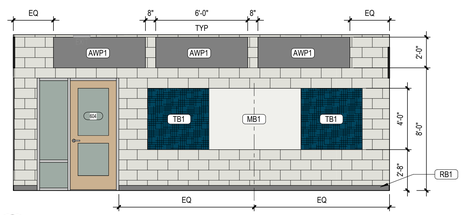

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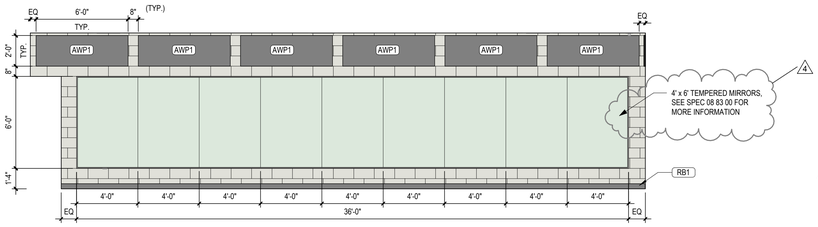

6 A-420 **INT ELEV - CHORUS 606 - EAST**
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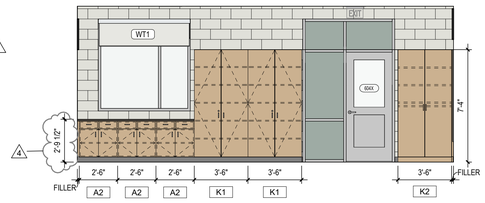

5 A-420 **INT ELEV - CHORUS 604 - NORTH**
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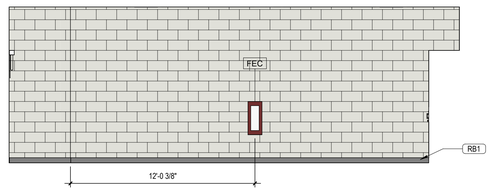
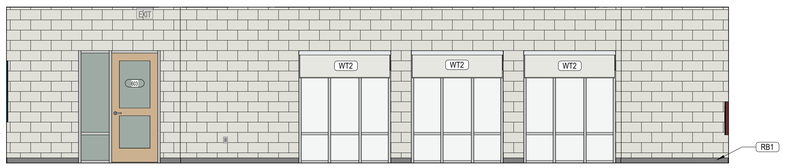


4 A-420 **INT ELEV - STEM 603 - WEST**
SCALE: 1/4" = 1'-0"



3 A-420 **INT ELEV - STEM 603 - SOUTH**
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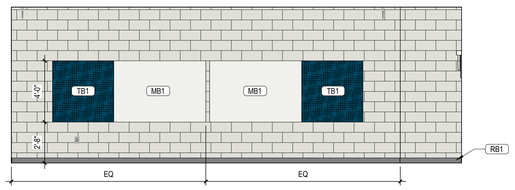

2 A-420 **INT ELEV - STEM 603 - EAST**
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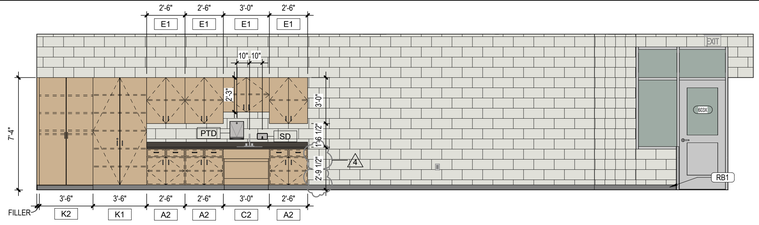

1 A-420 **INT ELEV - STEM 603 - NORTH**
SCALE: 1/4" = 1'-0"

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ENERGY STAR PARTNER

No.	Date	Description
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: RLH
CHECKED BY: MK

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INTERIOR ELEVATION - AREA 600

A-420

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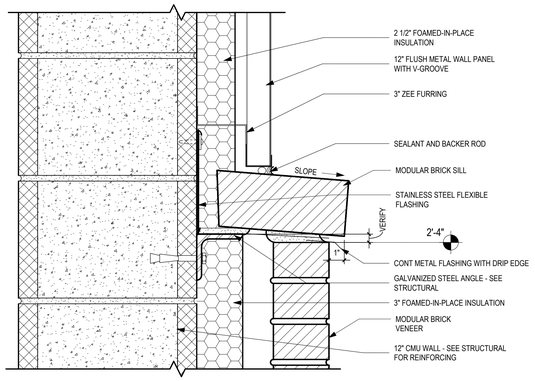

14 / A-501 DETAIL - BRICK W/ BRICK SILL TO MTL PANL
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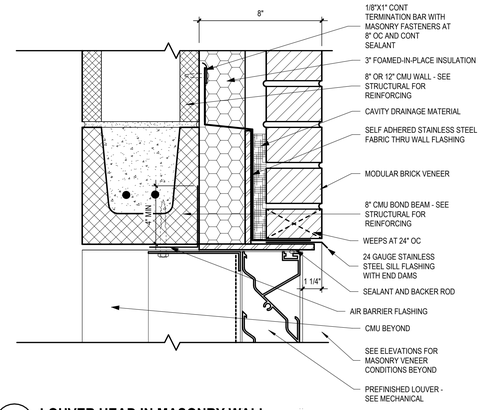
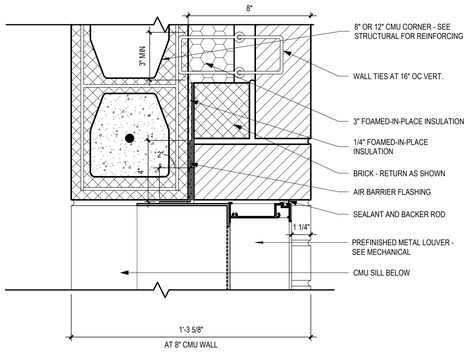


10 / A-501 LOUVER HEAD IN MASONRY WALL
SCALE: 3" = 1'-0"



8 / A-501 LOUVER JAMB IN MASONRY WALL
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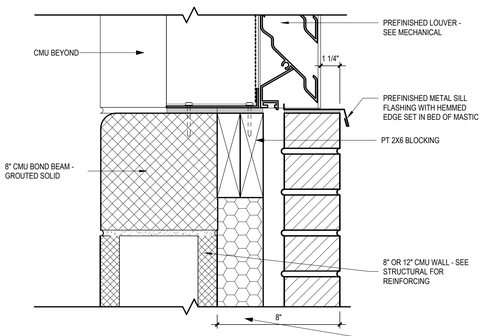

4 / A-501 LOUVER SILL IN MASONRY WALL
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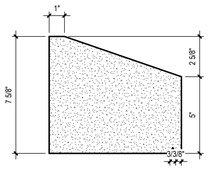

15 / A-501 CAST STONE SILL
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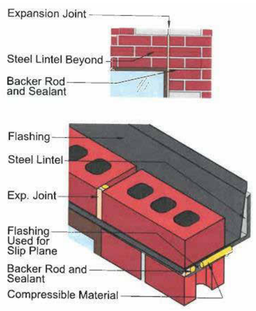
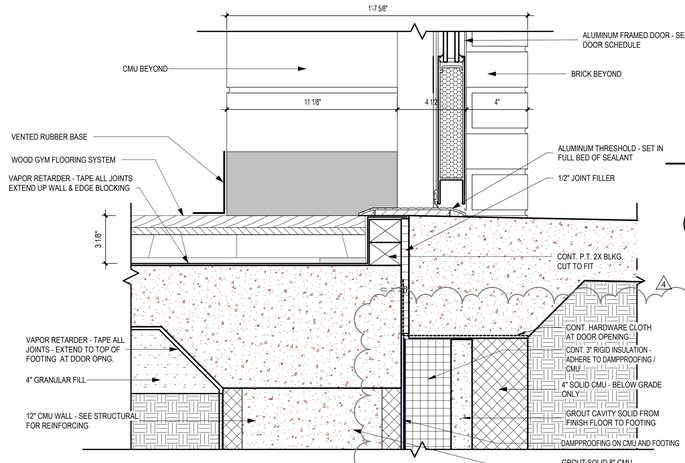
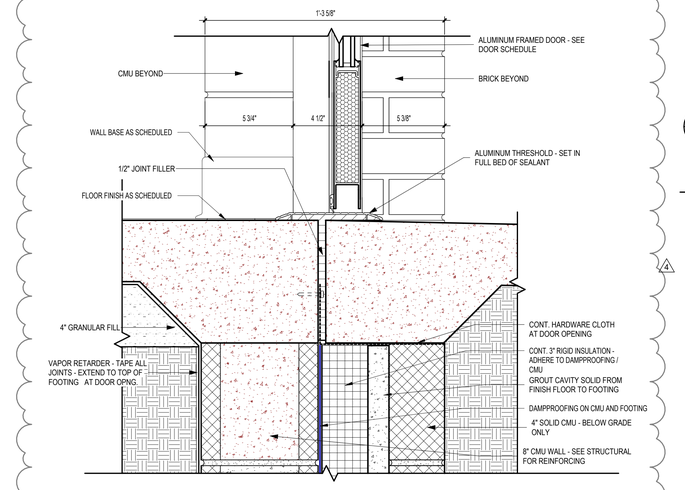


CONTROL JOINT AT LINTEL

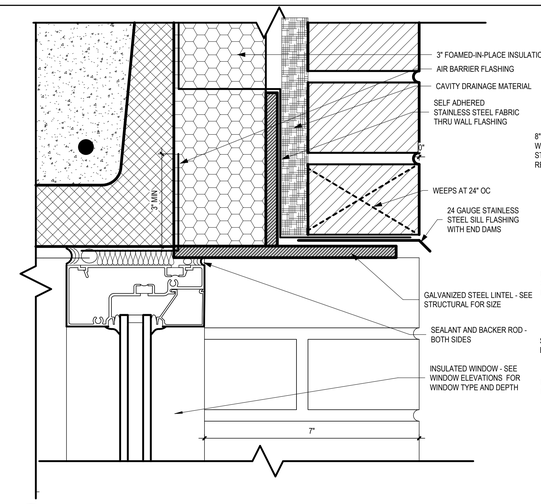
13 / A-501 BRICK CONTROL JOINT
SCALE: 12" = 1'-0"



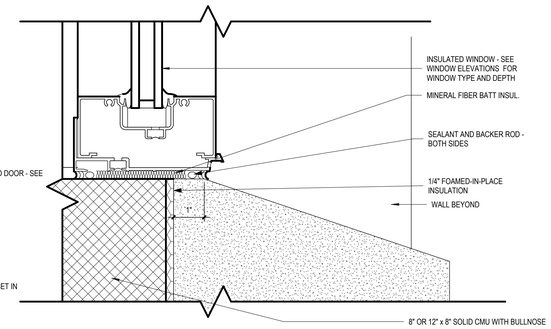
7 / A-501 DOOR SILL DETAIL - GYM
SCALE: 3" = 1'-0"



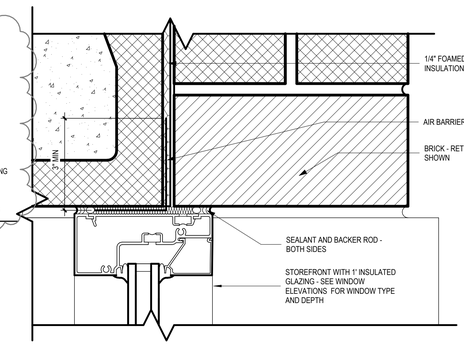
3 / A-501 DOOR SILL DETAIL
SCALE: 3" = 1'-0"



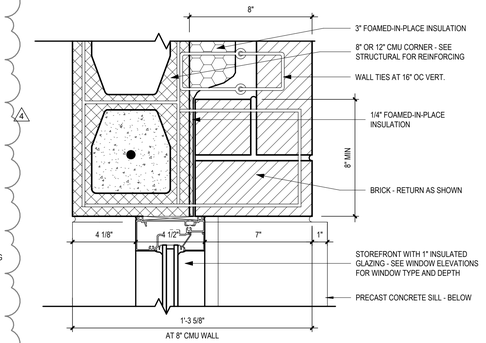
12 / A-501 ENLARGED STOREFRONT HEAD DETAIL
SCALE: 6" = 1'-0"



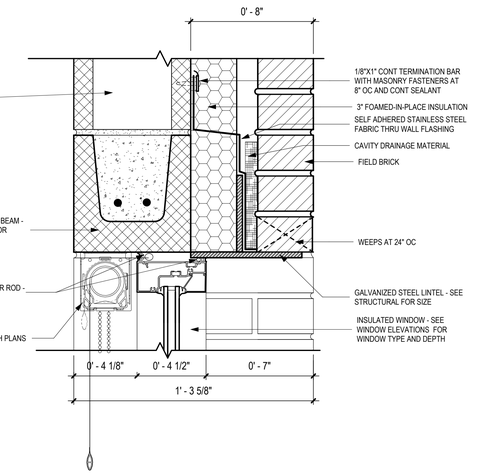
9 / A-501 ENLARGED STOREFRONT SILL DETAIL
SCALE: 6" = 1'-0"



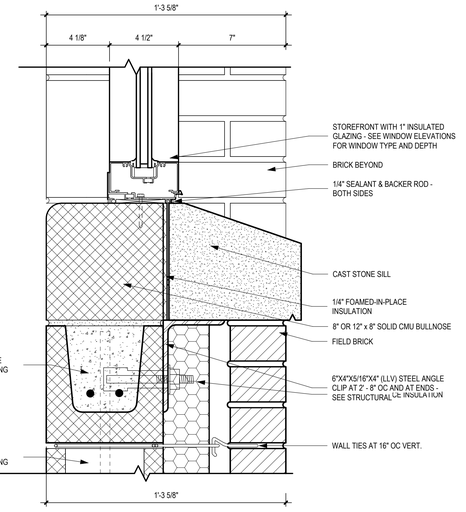
6 / A-501 ENLARGED STOREFRONT JAMB DETAIL
SCALE: 6" = 1'-0"



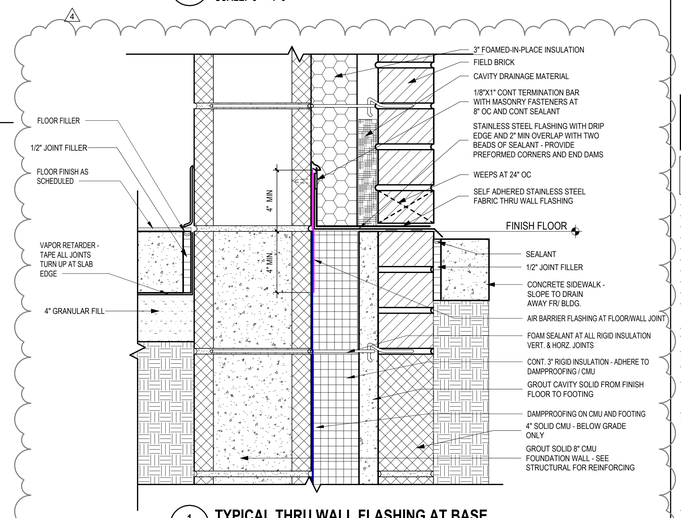
2 / A-501 TYPICAL STOREFRONT JAMB DETAIL
SCALE: 3" = 1'-0"



11 / A-501 TYPICAL STOREFRONT HEAD DETAIL
SCALE: 3" = 1'-0"



5 / A-501 TYPICAL STOREFRONT SILL DETAIL
SCALE: 3" = 1'-0"



1 / A-501 TYPICAL THRU WALL FLASHING AT BASE
SCALE: 3" = 1'-0"

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NORTH CAROLINA
FAYETTEVILLE

Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
1	2/13/2025	BID SET/AGENCY COM.
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: Author
CHECKED BY: Checker

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EXTERIOR DETAILS

A-501

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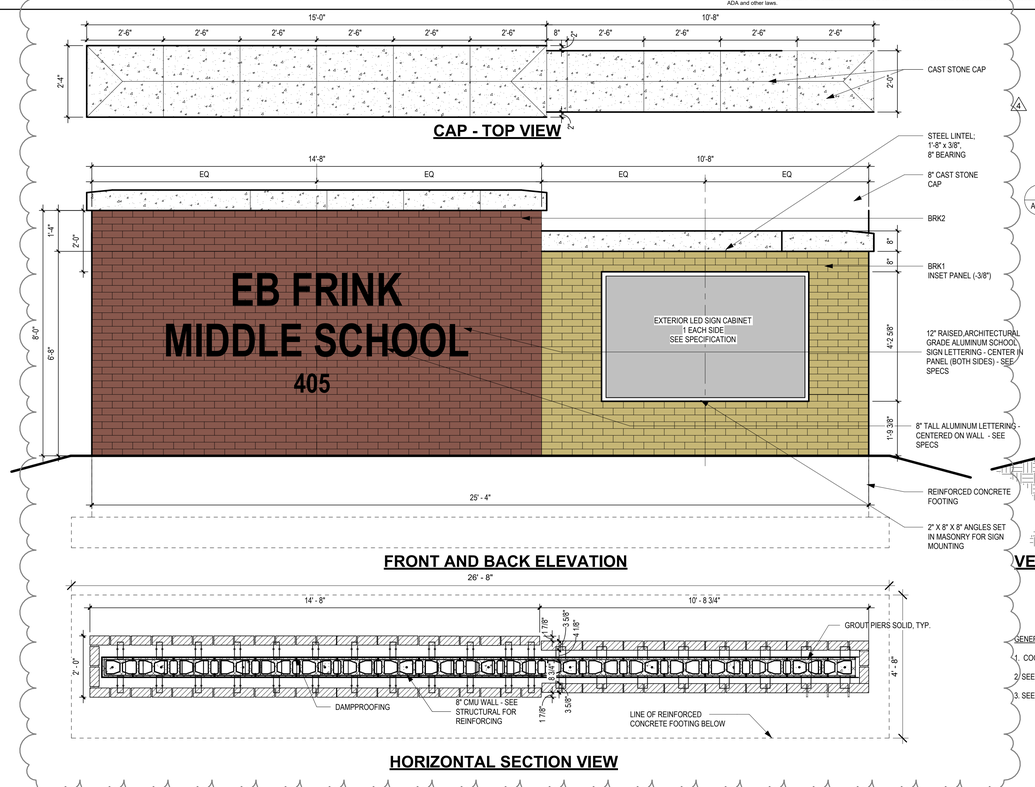
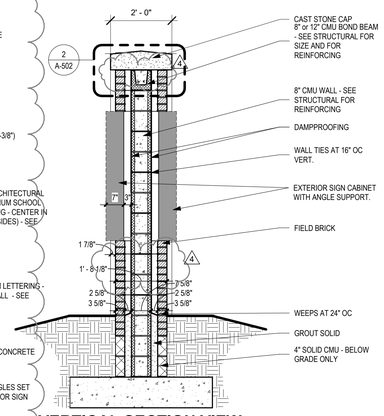
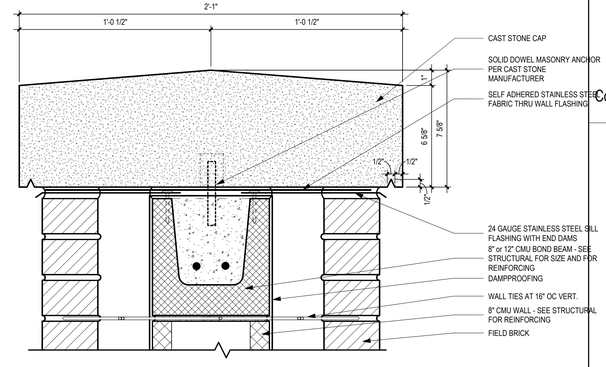




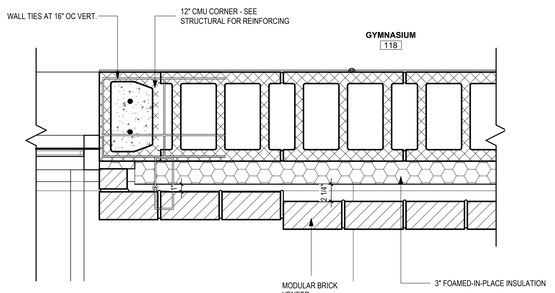
GENERAL NOTES:

1. COORDINATE SIGN LOCATION WITH THE OWNER.
2. SEE STRUCTURAL FOR REINFORCING
3. SEE ELECTRICAL FOR UPLIGHTING

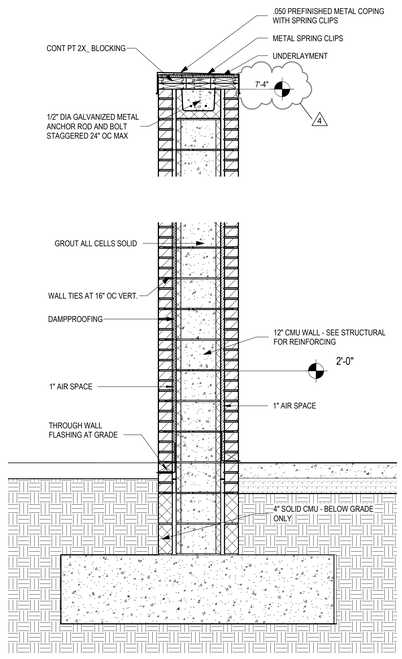
3 A-502 **SITE SIGN**
SCALE: 1/2" = 1'-0"



2 A-502 **MASONRY CAP AT SITE SIGN**
SCALE: 3" = 1'-0"



7 A-502 **PLAN DTL. - GYM SOUTH WALL**
SCALE: 1 1/2" = 1'-0"



1 A-502 **KITCHEN SCREEN WALL DTL**
SCALE: 3/4" = 1'-0"

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Construction Documents

Lenoir County

EB Frink Middle School

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ENERGY STAR PARTNER

No.	Date	Description
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
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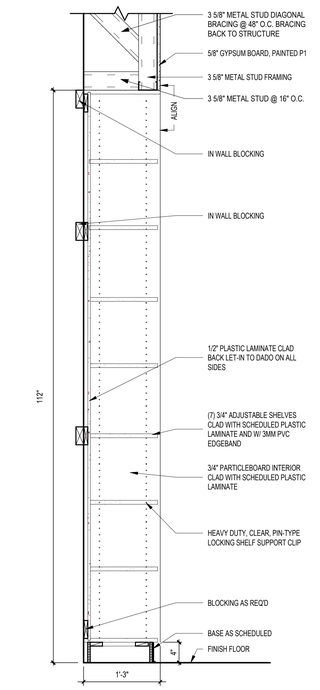
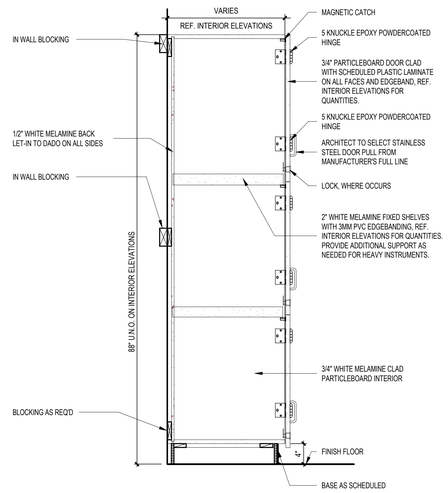
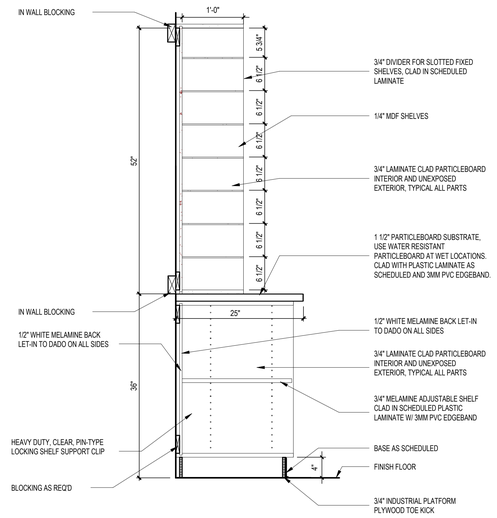


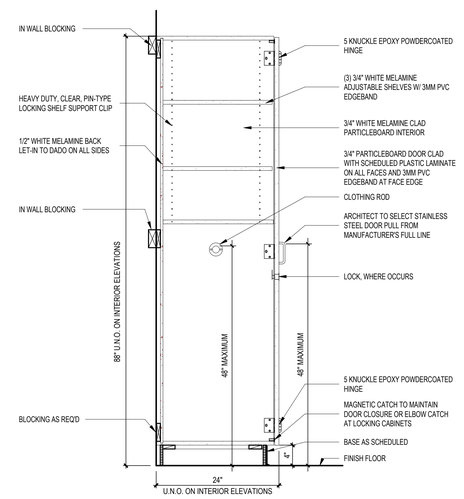
K5 / A-512 TALL CABINET
SCALE: 1" = 1'-0"



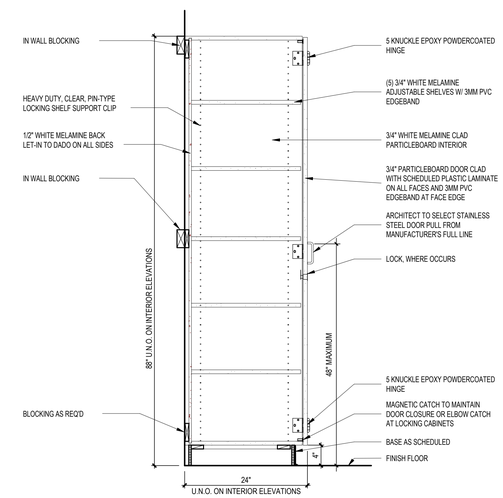
K4 / A-512 BAND INSTRUMENTS STORAGE
SCALE: 1" = 1'-0"



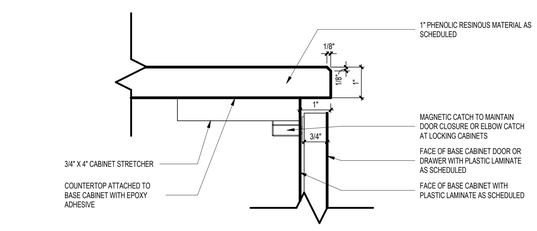
K3 / A-512 TALL CABINET - MAILBOXES
SCALE: 1" = 1'-0"



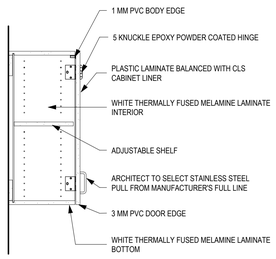
K2 / A-512 TALL CABINET - WARDROBE STORAGE
SCALE: 1" = 1'-0"



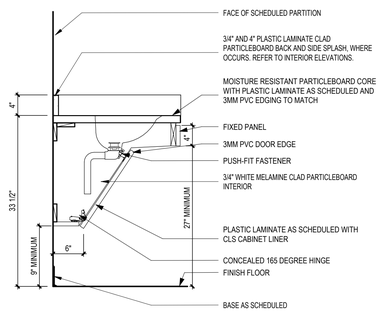
K1 / A-512 TALL CABINET - DOOR
SCALE: 1" = 1'-0"



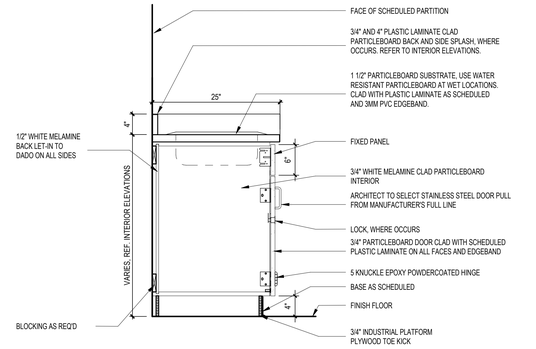
2 / A-512 COUNTERTOP EDGE - PHENOLIC RESIN
SCALE: 6" = 1'-0"



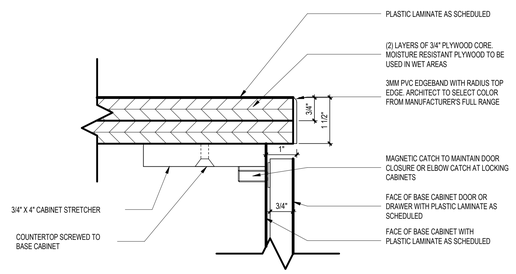
E1 / A-512 UPPER CABINET
SCALE: 1" = 1'-0"



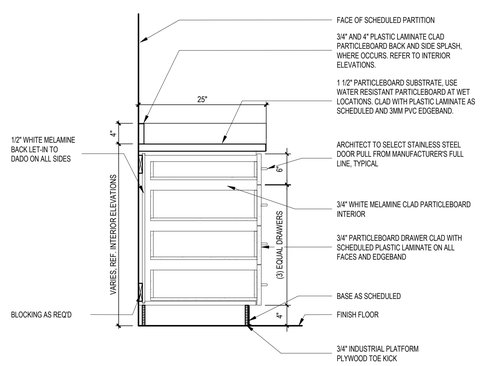
C2 / A-512 BASE CABINET - ADA SINK
SCALE: 1" = 1'-0"



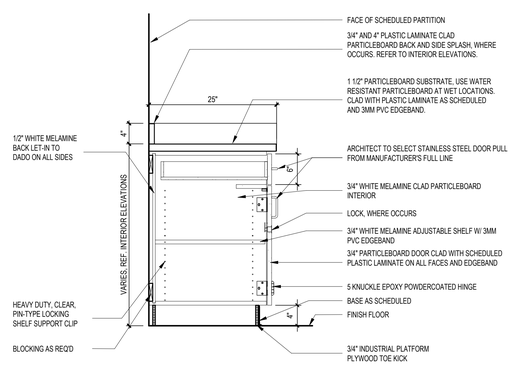
C1 / A-512 BASE CABINET - SINK
SCALE: 1" = 1'-0"



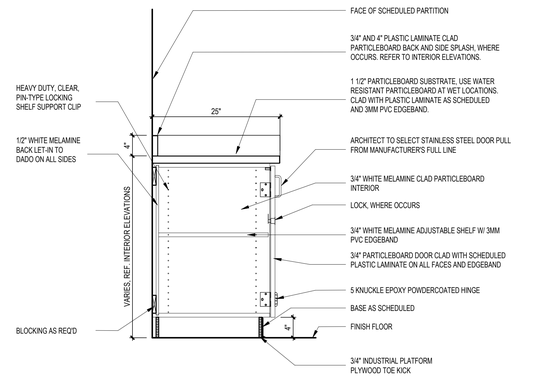
1 / A-512 COUNTERTOP EDGE - PLASTIC LAMINATE
SCALE: 6" = 1'-0"



A3 / A-512 BASE CABINET - DRAWERS
SCALE: 1" = 1'-0"



A2 / A-512 BASE CABINET - DOOR & DRAWER
SCALE: 1" = 1'-0"



A1 / A-512 BASE CABINET - DOOR
SCALE: 1" = 1'-0"

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Construction Documents

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EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
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INTERIOR DETAILS - MILLWORK

A-512

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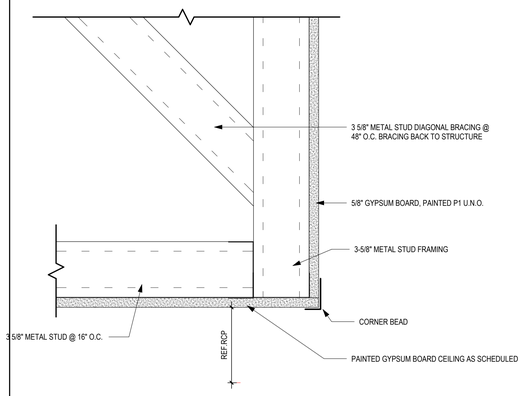
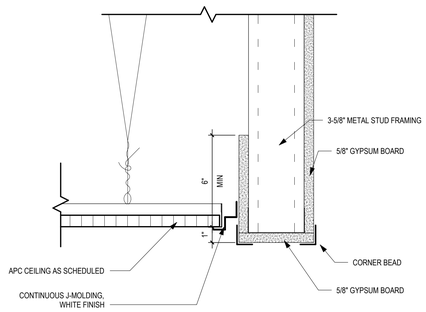
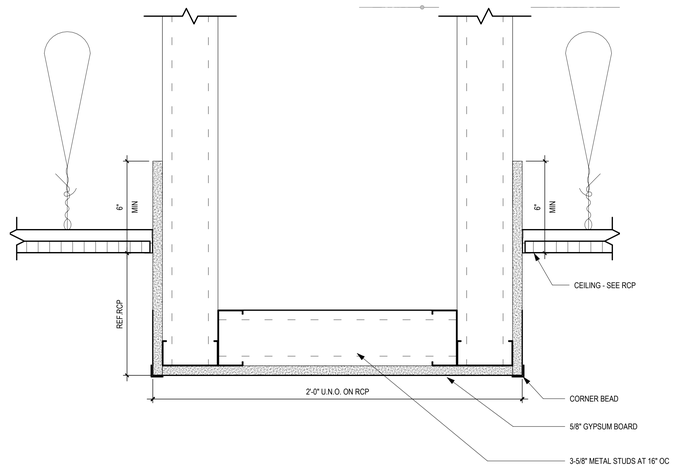


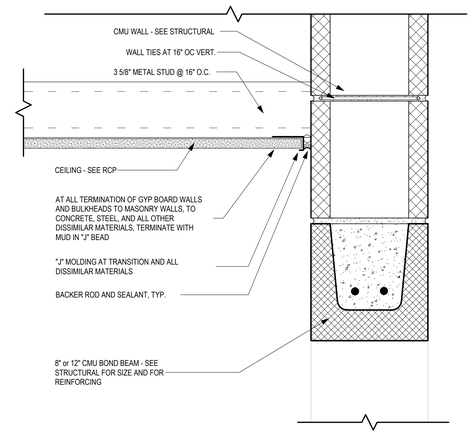
9 A-515 **GYP. BD. FURDOWN**
SCALE: 3" = 1'-0"



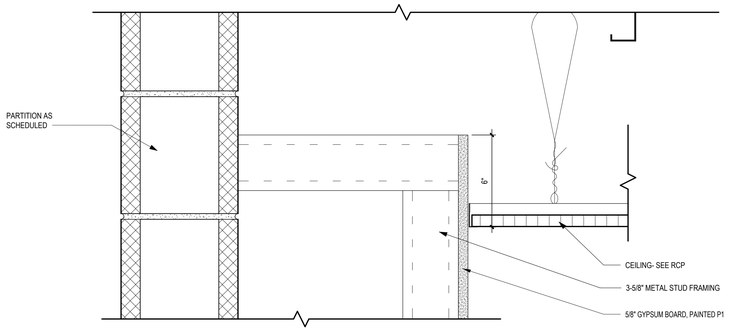
8 A-515 **APC TO BULKHEAD**
SCALE: 3" = 1'-0"

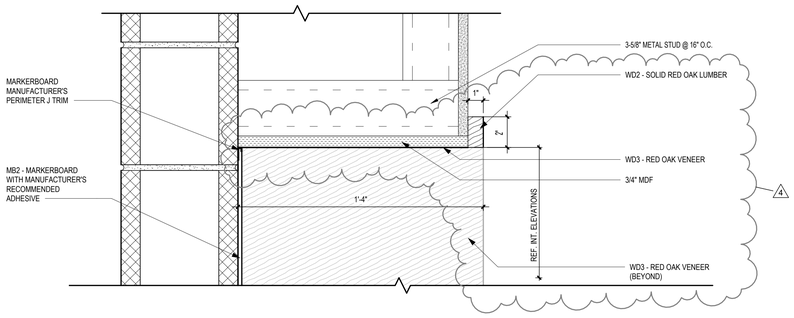


6 A-515 **GYP BULKHEAD**
SCALE: 3" = 1'-0"

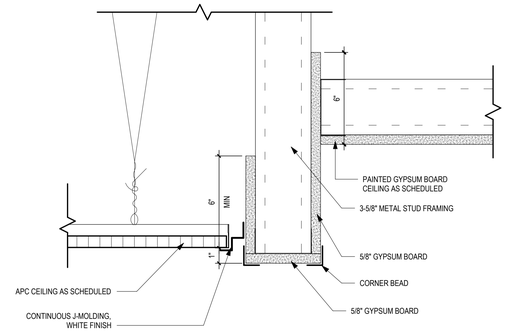


3 A-515 **GYP CEILING TO CMU BOND BEAM**
SCALE: 3" = 1'-0"

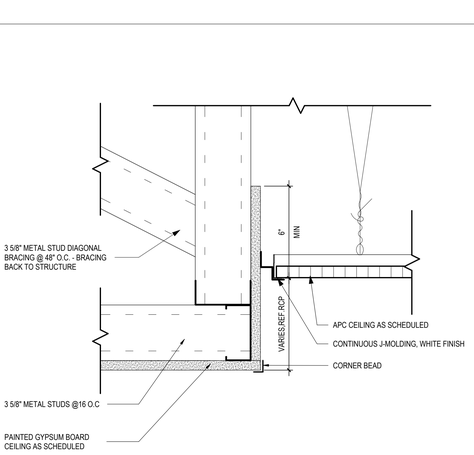




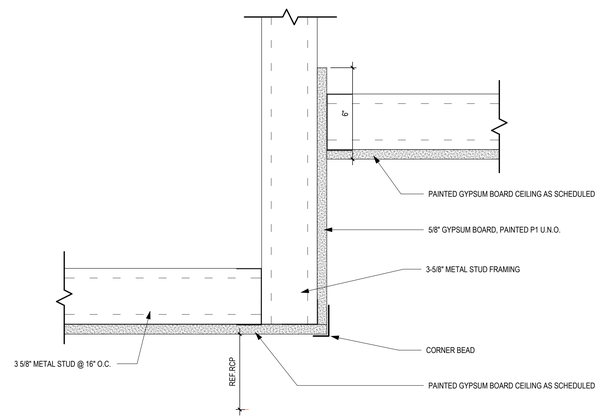
7 A-515 **MEDIA CENTER BULKHEAD DETAIL**
SCALE: 3" = 1'-0"



5 A-515 **APC TO GYP. BD. WITH BULKHEAD**
SCALE: 3" = 1'-0"



2 A-515 **GYP CEILING TO APC TRANSITION**
SCALE: 3" = 1'-0"



4 A-515 **GYP. BD. TO GYP. BD. HEIGHT CHANGE**
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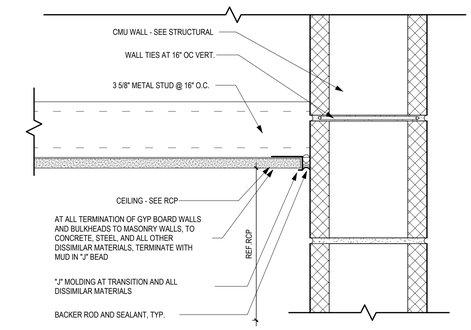

1 A-515 **GYP CEILING TO CMU WALL**
SCALE: 3" = 1'-0"

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Construction Documents

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ENERGY STAR PARTNER

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INTERIOR DETAILS - CEILING

A-515

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DOOR & FRAME SCHEDULE

To Room: Name	DOOR NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THK	MAT	TYPE	FRAME TYPE	FRAME MATERIAL	FRAME DEPTH	DOOR HW	FIRE RATING	KEYED NOTES
VESTIBULE	100A	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF6	ALUM	0' - 4 1/2"	02		REMOVEABLE MULLION, ACCESS CNTRL,ADA OPERATOR, PANIC
VESTIBULE	100B	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF6	ALUM	0' - 4 1/2"	03		EXIT ONLY, PANIC HARDWARE
VESTIBULE	100C	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF6	ALUM	0' - 4 1/2"	03		EXIT ONLY, PANIC HARDWARE
VESTIBULE	100D	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF6	ALUM	0' - 4 1/2"	03		EXIT ONLY, PANIC HARDWARE
LOBBY	100E	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF7	ALUM	0' - 4 1/2"	04		REMOVEABLE MULLION, ACCESS CNTRL,ADA OPERATOR, PANIC
LOBBY	100F	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF7	ALUM	0' - 4 1/2"	05		EXIT ONLY, PANIC HARDWARE
LOBBY	100G	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF7	ALUM	0' - 4 1/2"	05		EXIT ONLY, PANIC HARDWARE
LOBBY	100H	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF7	ALUM	0' - 4 1/2"	06		EXIT ONLY, PANIC HARDWARE
RECPT	101A	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF9	ALUM	0' - 4 1/2"	07		ACCESS CONTROL, CLOSER
RECPT	101B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	08		ACCESS CONTROL (2 SIDE), CLOSER
CORR.	101C	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	09		ACCESS CONTROL, CLOSER
CORRIDOR	101D	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	10		
HEALTH	102	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	11		
HEALTH TLT	102A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	12		CLOSER
PRINCIPAL	103	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	13		
STG	104	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	11		
CORR.	105	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	12		
SECTY.	106	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	13		
TLT	107	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	12		
CONF	108	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	11		
STG	109	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	11		
BKKPG	110	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	13		
CORR.	111	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	11		
RECORDS	112	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	14		CLOSER
SHARED OFFICE	113	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	13		
IDF	114	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	15		ACCESS CONTROL, CLOSER
MAILROOM	115	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	16		
AP	116	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	13		
AP	117	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	13		
GYMNASIUM	118A	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF10	ALUM	0' - 4 1/2"	17		PANIC HARDWARE
GYMNASIUM	118B	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF11	ALUM	0' - 4 1/2"	18		INSULATED, FLUSH FRP, REMOVEABLE MULLION,ACCESS CNTRL, PANIC
GYMNASIUM	118C	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF11	ALUM	0' - 4 1/2"	19		INSULATED, FLUSH FRP, REMOVEABLE MULLION, PANIC
GYMNASIUM	118D	6' - 0"	7' - 1"	0' - 1 3/4"	FRP	FGM2	SF11	ALUM	0' - 4 1/2"	19		INSULATED, FLUSH FRP, REMOVEABLE MULLION, PANIC
CONCS	119	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	HM	0' - 8 3/4"	20		
CONCS	119B	4' - 0"	4' - 6"	0' - 1 3/4"	STEEL	CC	CC	ALUM	0' - 8 3/4"	01		INSIDE LOCK
OFFICE	120	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	HM	0' - 8 3/4"	13		
GYM STG	122A	6' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	1	HM	0' - 4 1/2"	21		
GYM STG	122B	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		ACCESS CONTROL
GYM STG	124	6' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	1	HM	0' - 4 1/2"	21		
MECH	125	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		TRANSOM WITH LOUVER, ACCESS CONTROL
JAN	128	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	23		
FAMILY TLT	129	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"	24		CLOSER
CORRIDOR	200.1	8' - 0"	7' - 2"	0' - 1 3/4"	WD	F	3	HM	0' - 8 3/4"	25		MHO, ACCESS CONTROL, PANIC
CORRIDOR	200.X	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF11	ALUM	0' - 4 1/2"	18		REMOVEABLE MULLION, ACCESS CONTROL, PANIC
HEALTH/PE	201	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	SF2	ALUM	0' - 8 3/4"	26	--	PANIC HARDWARE
HEALTH/PE	201X	3' - 0"	7' - 0"	0' - 1 3/4"	FRP	FGM	SF21	ALUM	0' - 4 1/2"	27		PANIC HARDWARE
BUSINESS EDU	202	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	28		
GUIDANCE MTG	203	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	29		
GUID. OFC	203A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	30		
GUID. OFC	203B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 5 3/4"	13		
MEDIA	204.1	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF12	ALUM	0' - 4 1/2"	31		PANIC HARDWARE
MEDIA	204.2	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF12	ALUM	0' - 4 1/2"	26		PANIC HARDWARE
MEDIA WKRM	204A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	11		
MEDIA CONF	204B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	11		
STG	204C	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 5 3/4"			
MEDIA	204X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF20	ALUM	0' - 4 1/2"	27		ACCESS CONTROL, PANIC
BOOK STG	205	3' - 6"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	14		CLOSER
JAN	208	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	32		
SRO	209	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	13		
ISS	211	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	33		
DINING	212.1X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF20	ALUM	0' - 4 1/2"	27		ACCESS CONTROL, PANIC
DINING	212.2X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF20	ALUM	0' - 4 1/2"	27		ACCESS CONTROL, PANIC
DINING	212B	6' - 0"	7' - 0"	0' - 1 3/4"	WD	F(2)	1	ALUM	0' - 4 1/2"	17		PANIC HARDWARE
DINING	212C	6' - 0"	7' - 0"	0' - 1 3/4"	WD	F(2)	1	ALUM	0' - 4 1/2"	17		PANIC HARDWARE
SERVING	214.1	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	34		
SERVING	214.2	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	34		
DINING	214.3	14' - 8"	7' - 4"	0' - 1 3/4"	STEEL	CD	CD	STEEL		01		OVERHEAD COILING GRILLE
DRY STOR	214A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	11		
OFFICE	214D	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	1	ALUM	0' - 5 3/4"	30		
TLT	214E	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	35		
DISHWASHING	214J	4' - 0"	4' - 6"	0' - 1 3/4"	STEEL	CC	CC	ALUM		01		
KITCHEN	214X	3' - 6"	7' - 2"	0' - 1 3/4"	FRP	N	1	ALUM	0' - 4 1/2"	36		ACCESS CONTROL, PANIC
ART	215	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	26		PANIC HARDWARE
ART STG	215A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	11		
KILN	215B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	37		
ART	215X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF21	ALUM	0' - 4 1/2"	27		PANIC HARDWARE
STAIR	216	3' - 6"	7' - 2"	0' - 1 3/4"	INSUL HM	F	1	HM	0' - 4 1/2"	38	90	INSULATED,ACCESS CONTROL,PANIC
JAN	219	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	32		
COLLABORATION	300	8' - 0"	7' - 2"	0' - 1 3/4"	WD	F	3	HM	0' - 5 3/4"	39	90	MHO, ACCESS CONTROL, PANIC
MECH	300A	3' - 6"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	40		
MECH	300B	3' - 6"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	40		
MECH	300C	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 4 1/2"	41		
MECH	300D	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 4 1/2"	41		
MECH	300E	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	300F	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 4 1/2"	41		
MECH	300G	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	300H	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 4 1/2"	41		
PUMP	300J	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		
COLLABORATION	300X	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF16	ALUM	0' - 4 1/2"	18		REMOVEABLE MULLION, ACCESS CONTROL, PANIC
SENSORY RM	301	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	07		ACCESS CONTROL, CLOSER
STAFF TLT	301A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	42		CLOSER
EC	302.1	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	43		ACCESS CONTROL, PANIC HARDWARE, ALARM

DOOR & FRAME SCHEDULE

To Room: Name	DOOR NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THK	MAT	TYPE	FRAME TYPE	FRAME MATERIAL	FRAME DEPTH	DOOR HW	FIRE RATING	KEYED NOTES
EC	302.2	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	43		PANIC HARDWARE, ALARM
TLT/SHW	302A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	12		ACCESS CONTROL, CLOSER
EXTRA CLASS	303	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
8TH GRADE	304	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
8TH GRADE	305	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
8TH GRADE	306	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
STAFF TLT	307	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	35		CLOSER
JAN	310	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	23		
IDF	311	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	3	ALUM	0' - 8 3/4"	09		ACCESS CONTROL, CLOSER
8TH GRADE SCIENCE	312	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	26		PANIC HARDWARE
8TH GRADE SCIENCE	312X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	F	2	ALUM	0' - 8 3/4"	44		ACCESS CONTROL, PANIC HARDWEAR
8TH GRADE	313	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
8TH GRADE	315	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1 4	ALUM	0' - 4 1/2"	33		
8TH GRADE SCIENCE	316	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	26		PANIC HARDWARE
8TH GRADE SCIENCE	316X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	F	2	ALUM	0' - 8 3/4"	44		ACCESS CONTROL, PANIC HARDWEAR
8TH GRADE	317	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
PREP RM	318A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1 4	ALUM	0' - 8 3/4"	45		
PREP RM	318B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	45		
CORRIDOR	400	8' - 0"	7' - 2"	0' - 1 3/4"	WD	F	3	HM	0' - 5 3/4"	39	90	MHO, ACCESS CONTROL, PANIC
MECH	400A	3' - 6"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	40		
MECH	400B	3' - 6"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	40		
MECH	400C	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	400D	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	400E	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	400F	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	400G	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	400H	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
PUMP	400J	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		
CORRIDOR	400X	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF27	ALUM	0' - 4 1/2"	18		REMOVEABLE MULLION, ACCESS CONTROL, PANIC
RESOURCE RM	401	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 8 3/4"	33		
STAFF TLT	401A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	42		CLOSER
EC	402A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1 4	ALUM	0' - 4 1/2"	26		PANIC HARDWARE
EC	402B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	26		PANIC HARDWARE
EC	402C	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	12		ACCESS CONTROL, CLOSER
TLT/CHG	402D	5' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM		46		
7TH GRADE	403	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 8 3/4"	33		
7TH GRADE	404	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
7TH GRADE	405	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
STAFF TLT	406	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	47		CLOSER
JAN	409	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	23		
IDF	410	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	3	ALUM	0' - 8 3/4"	09		ACCESS CONTROL, CLOSER
7TH GRADE SCIENCE	411	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	26		PANIC HARDWARE
7TH GRADE SCIENCE	411X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	F	2	ALUM	0' - 8 3/4"	44		ACCESS CONTROL, PANIC
7TH GRADE	412	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	33		
7TH GRADE	414	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1 4	ALUM	0' - 4 1/2"	33		
7TH GRADE SCIENCE	415	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 4 1/2"	26		PANIC HARDWARE
7TH GRADE SCIENCE	415X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	F	2 4	ALUM	0' - 8 3/4"	44		ACCESS CONTROL, PANIC
7TH GRADE	416	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
CORRIDOR	417	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
PREP RM	418A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	45		
PREP RM	418B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	45		
CORRIDOR	500	8' - 0"	7' - 2"	0' - 1 3/4"	WD	F	3	HM	0' - 5 3/4"	39	90	MHO, ACCESS CONTROL, PANIC
MECH	500A	3' - 6"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	40		
MECH	500B	3' - 6"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	40		
MECH	500C	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	500D	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	500E	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	500F	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	500G	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	500H	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
PUMP	500J	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		
CORRIDOR	500X	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM2	SF27	ALUM	0' - 4 1/2"	18		REMOVEABLE MULLION, ACCESS CONTROL, PANIC
RESOURCE RM	501	3' - 0"	7' - 2"	0' - 1 3/4"	WD	N	1	ALUM	0' - 8 3/4"	33		
STAFF TLT	501A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	42		CLOSER
EC	502A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1 4	ALUM	0' - 8 3/4"	26		PANIC HARDWARE
EC	502B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	HM	0' - 8 3/4"	26		PANIC HARDWARE
EC	502C	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	HM	0' - 8 3/4"	12		ACCESS CONTROL, CLOSER
CORRIDOR	503	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
CORRIDOR	504	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
CORRIDOR	505	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
STAFF TLT	506	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	HM	0' - 4 1/2"	47		CLOSER
CORRIDOR	509	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	HM	0' - 4 1/2"	23		
TEAM AREA	510	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	3	HM	0' - 8 3/4"	09		ACCESS CONTROL, CLOSER
6TH GRADE SCIENCE	511	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	26		PANIC HARDWARE
6TH GRADE SCIENCE	511X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	F	2	ALUM	0' - 8 3/4"	44		ACCESS CONTROL, PANIC
6TH GRADE	512	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
6TH GRADE	514	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1 4	ALUM	0' - 8 3/4"	33		
6TH GRADE SCIENCE	515	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	26		PANIC HARDWARE
6TH GRADE SCIENCE	515X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	F	2	ALUM	0' - 8 3/4"	44		ACCESS CONTROL, PANIC
6TH GRADE	516	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
EXTRA CLASSROOM	517	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	33		
PREP RM	518A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1 4	ALUM	0' - 8 3/4"	45		
PREP RM	518B	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	45		
MECH	600A	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	600B	7' - 0"	7' - 2"	0' - 1 3/4"	WD	F(2)	3	ALUM	0' - 8 3/4"	41		
MECH	600C	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		
ELEC	601	4' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	HM	0' - 4 1/2"	48	45	PANIC HARDWARE
ELEC	601B	4' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	HM	0' - 4 1/2"	48	45	PANIC HARDWARE
MDF	602A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	HM	0' - 4 1/2"	32		
MECH	602B	3' - 6"	7' - 2"	0' - 1 3/4"	INSUL HM	F	1	HM	0' - 4 1/2"	49	90	INSULATED, ACCESS CONTROL
MECH PLATFORM	602X.1	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		
MECH PLATFORM	602X.2	6' - 0"	7' - 2"	0' - 1 3/4"	FRP	F(2)	3	ALUM	0' - 4 1/2"	22		
STEM	603	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	26		PANIC HARDWARE
STEM	603X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF21	ALUM	0' - 4 1/2"	27		PANIC HARDWARE
CHORUS	604	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	50		PANIC HARDWARE
CHORUS	604X	3' - 0"	7' - 2"	0' - 1 3/4"	FRP	FGM	SF20	ALUM	0' - 4 1/2"	27		PANIC HARDWARE
BAND	605	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	50		PANIC HARDWARE
BAND STR	605A	3' - 0"	7' - 2"	0' - 1 3/4"	WD	F	1	ALUM	0' - 8 3/4"	11		
BAND	605X	3' - 0"	7' - 0"	0' - 1 3/4"	FRP	FGM	SF20	ALUM	0' - 4 1/2"	27		PANIC HARDWARE
AGRI LAB	606	3' - 0"	7' - 2"	0' - 1 3/4"	WD	HG	SF2	ALUM	0' - 5 3/4"	50		PANIC HARDWARE
AGRI LA

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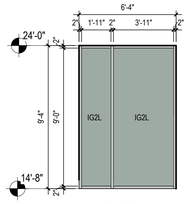

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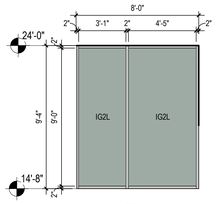

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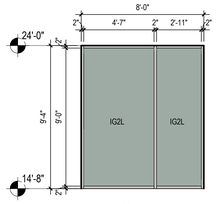


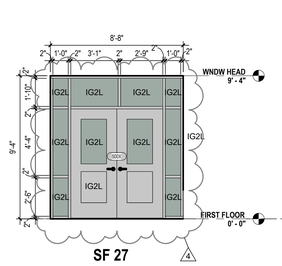
SF28

NOTES:	
1	SF - ALUMINUM STOREFRONT WINDOW SYSTEM SEE SPECFICATIONS
2-	ALL INTERIOR STORERONT WINDOW SYSTEMS TO BE SET TO THE EXTERIOR FACE OF WALL.

GLAZING SCHEDULE

TYPE	DESCRIPTION
SG	SAFETY GLASS, 1/4" CLEAR TEMPERED
SGL	SAFETY GLASS, 1/4" CLEAR, LAMINATED
IG1	INSULATED SAFETY GLASS UNITS, CLEAR TEMPERED (LOW E)
IG1L	INSULATED SAFETY GLASS UNITS, CLEAR TEMPERED (LOW E), CLEAR LAMINATE
IG2	INSULATED SAFETY GLASS UNITS, GRAY TINTED TEMPERED (LOW E)
IG2L	INSULATED SAFETY GLASS UNITS, GRAY TINTED TEMPERED, (LOW E), CLEAR LAMINATE
IG1 - CLEAR GLASS TO BE INSTALLED IN AREA 100 & 200 - SOUTH FACE AT COVERED WALKWAY U.N.O.	
IG1L - CLEAR LAMI GLASS TO BE INSTALLED AT INTERIOR WINDOWS & DOORS AS NOTED.	
IG2 - GRAY TINTED GLASS TO BE INSTALLED IN EXTERIOR CLASSROOM WINDOWS & DOORS U.N.O.	
IG2L - GRAY TINTED TRANSLUCENT LAMI GLASS TO BE INSTALLED IN EXT. CLASSROOM TRANSOMS AND GYM WINDOWS & DOORS.	
SG - SAFETY GLASS TO BE INSTALLED IN ALL INTERIOR WINDOWS & DOORS U.N.O.	
SGL - SAFETY GLASS TO BE INSTALLED AT INTERIOR WINDOWS & DOORS AS NOTED.	

601-GLAZING LEGEND



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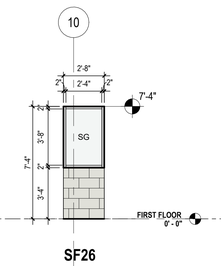

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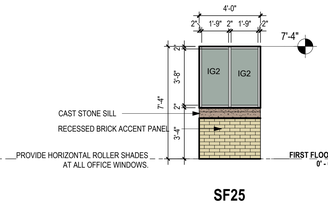

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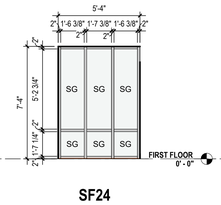

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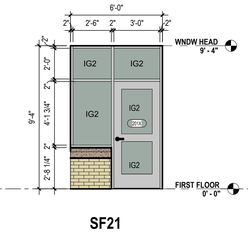

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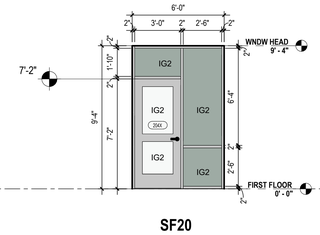

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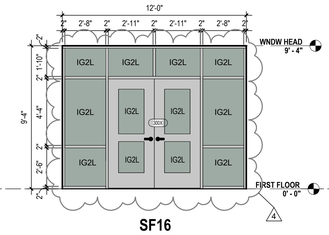

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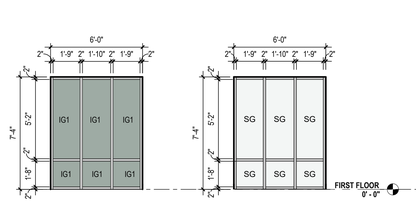

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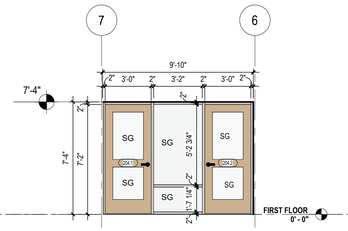

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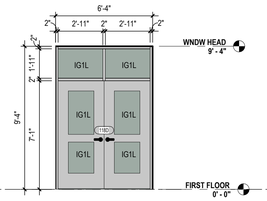

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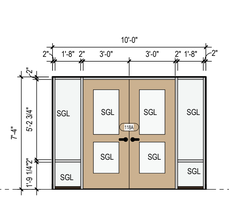

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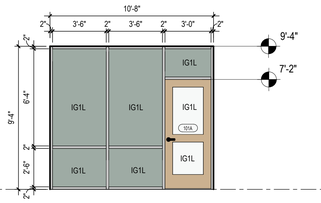

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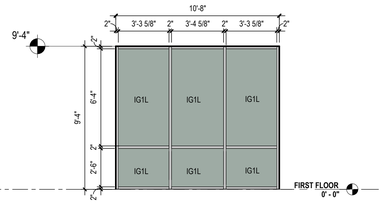

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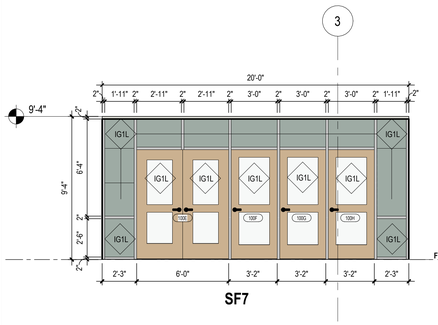

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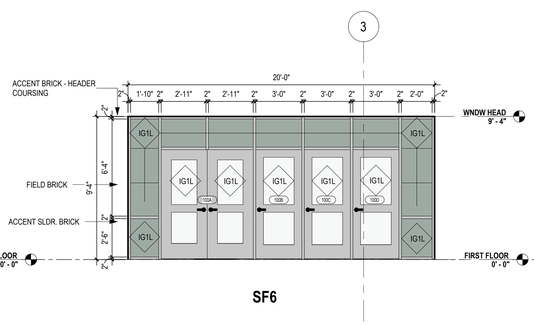

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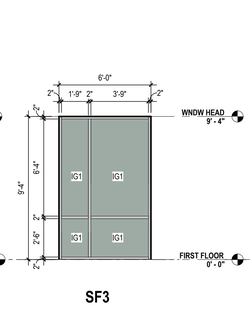
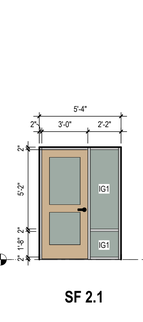
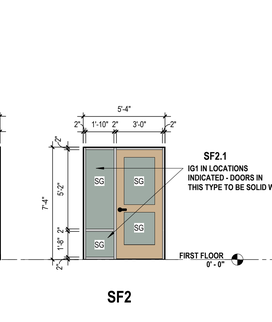


SF3

SF 2.2

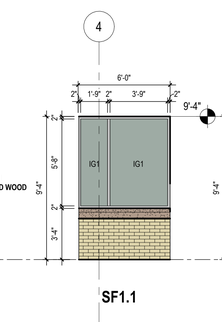


SF 2.1

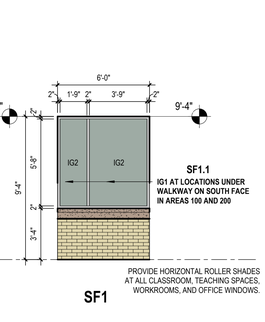


SF2.1
IG1 IN LOCATIONS INDICATED - DOORS IN THIS TYPE TO BE SOLID WOOD

SF2



SF1.1



SF1.1
IG1 AT LOCATIONS UNDER WALKWAY ON SOUTH FACE IN AREAS 100 AND 200

SF1

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CERT. NO. 50676
RENEWAL DATE 12/31/2026
RALEIGH, NORTH CAROLINA

BRUCE LINDSTROM
REGISTERED ARCHITECT
7040
NORTH CAROLINA
FAYETTEVILLE, N.C.

Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: Author
CHECKED BY: Checker

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WINDOW ELEVATIONS

A-611

Autodesk Docs://02303.000 Frink MS Lenoir City/02303.000_Frink MS Lenoir City_Arch_R24.rvt
4/16/2025 10:31:19 AM

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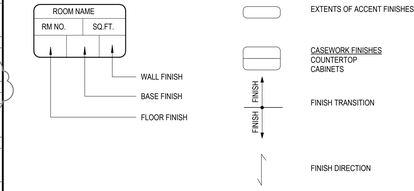
INTERIOR FINISH LEGEND

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				
06 - WOODS, PLASTICS, AND COMPOSITES					
06 20 00 - FINISH CARPENTRY					
WD2	WOOD	-	SOLID RED OAK LUMBER, TO MATCH WD1 DOORS	1" X 2"	
WD3	WOOD VENEER	-	RED OAK VENEER, TO MATCH WD1 DOORS		
08 - OPENINGS					
08 14 16 - FLUSH WOOD DOORS					
WD1	WOOD DOORS	VT INDUSTRIES	RED OAK, CLEAR CL18 PLAIN SLICED		
09 - FINISHES					
09 30 00 - TILING					
TL1	TILING	DALTILE	UNGLAZED MOSAICS, 2 X 2 DOT-MOUNTED MOSAIC, COLOR: SAPPHIRE SKY RO8 (4)	2" X 2" PIECES ON 12" X 24" SHEETS	SHOWER FLOOR TILE
TL2	TILING	DALTILE	COLOR WHEEL LINEAR WALL TILE, COLOR: ARCHITECTURAL GRAY 0109 (2)	4" X 8"	SHOWER WALL TILE
TL3	TILING	ATLAS CONCORDE	ENTICE, COPPER OAK NATURAL	7.25" X 59"	
09 51 13 - ACOUSTICAL PANEL CEILINGS					
APC1	ACOUSTICAL CEILING TILE	ARMSTRONG	CALLA; TEGULAR; WHITE TILES, WHITE GRID	24" X 24"	TYPICAL PUBLIC AREA MINIMUM NRC 0.80
APC2	ACOUSTICAL CEILING TILE	ARMSTRONG	CALLA; TEGULAR; BLACK TILES, BLACK GRID	24" X 24"	
APC3	ACOUSTICAL CEILING TILE	ARMSTRONG	LYRA; TEGULAR; WHITE TILES, WHITE GRID	24" X 24"	
VAPC1	VINYL FACED CEILING TILE	ARMSTRONG	ULTIMA HEALTH ZONE; WHITE TILES, WHITE GRID	24" x 24"	KITCHEN AREAS
09 64 66 - WOOD ATHLETIC FLOORING					
WAF1	WOOD ATHLETIC FLOORING	CONNOR SPORTS FLOORING	WOOD ATHLETHIC FLOAT FLOOR SYSTEM, DURACUSHION III, MAPLE: CLEAR URETHANE FINISH		STAINED COURT STRIPING TBD BY ARCHITECT IN CA
09 65 00 - RESILIENT FLOORING					
LVT1	LUXURY VINYL TILE	PATCRAFT	POLYCHROME, ECRU 00120	9" X 48" X 2.5MM THICKNESS	INSTALLED STAGGERED , REFER TO FINISH PLANS FOR INSTALLATION
LVT2	LUXURY VINYL TILE	PATCRAFT	POLYCHROME BALSAM 00320	9" X 48" X 2.5MM THICKNESS	INSTALLED STAGGERED , REFER TO FINISH PLANS FOR INSTALLATION
LVT3	LUXURY VINYL TILE	PATCRAFT	POLYCHROME VIRIDIAN 00380	9" X 48" X 2.5MM THICKNESS	INSTALLED STAGGERED , REFER TO FINISH PLANS FOR INSTALLATION
LVT4	LUXURY VINYL TILE	PATCRAFT	POLYCHROME CERULEAN 00440 V2	9" X 48" X 2.5MM THICKNESS	INSTALLED STAGGERED , REFER TO FINISH PLANS FOR INSTALLATION
LVT5	LUXURY VINYL TILE	PATCRAFT	POLYCHROME (EQUAL MIX OF BALSAM, VIRIDIAN, CERULEAN)	9" X 48" X 2.5MM THICKNESS	INSTALLED STAGGERED , REFER TO FINISH PLANS FOR INSTALLATION
RB1	RESILIENT BASE	JOHNSONITE	CHARCOAL WG 20	4" COVE BASE	
RB2	RESILIENT BASE	JOHNSONITE	CHARCOAL WG 20	4" TOELESS BASE	
RB3	RESILIENT BASE	JOHNSONITE	BLACK 40	4" VENTED BASE	
09 65 16.33 - RUBBER FLOORING					
RF1	RUBBER FLOORING	MANNINGTON	COLOR ANCHOR RUBBER, COLOR SPEC, COLOR [TBD], SCULPTURED PROFILE	36"X36"	
RF2	RUBBER FLOORING	MANNINGTON	COLOR ANCHOR RUBBER, CONNECT STEP SINGLE PIECE STAIR TREAD AND RISER COMBINATION, COLOR [TBD],1/8" SCULPTURED PROFILE	72" LENGTH	STAIR TREAD AND RISER
09 67 23 - RESINOUS FLOORING					
RSB1	RESINOUS FLOORING	DUR-A-FLEX	TO MATCH RSF1		
RSB2	RESINOUS FLOORING	DUR-A-FLEX	TO MATCH RSF2		
RSF1	RESINOUS FLOORING	DUR-A-FLEX	DUR-A-CHIP, ACADIA, ARMOR TOP GLOSS WITH GRIT		
RSF2	RESINOUS FLOORING	DUR-A-FLEX	HYBRI-FLEX EB, MEDIUM GREY, ARMOR TOP GLOSS WITH GRIT		
09 68 13 - TILE CARPETING					
CPT1	CARPET TILE	PATCRAFT	ORGANIC INTERRUPTION COLLECTION, COLOR REVEAL 10662 STYLE, SPRING HARBOR 00440 COLOR	9" x 36"	INSTALLED STAGGERED
EM1	ENTRY MAT	PATCRAFT	WALK FORWARD COLLECTION, ACCESS 10533 STYLE, TRECK 00590 COLOR	24" X 24"	INSTALLED MONOLITHIC
09 84 00 - ACOUSTICAL ROOM COMPONENTS					
AWP1	ACOUSTICAL WALL PANEL	GUILFORD OF MAINE	ANCHORAGE COLOR ASTEROID	2" THICK, REF. INTERIOR ELEVATIONS FOR SIZE	
AWP2	ACOUSTICAL WALL PANEL	GUILFORD OF MAINE	ANCHORAGE COLOR GREEN APPLE	2" THICK, REF. INTERIOR ELEVATIONS FOR SIZE	
AWP3	ACOUSTICAL WALL PANEL	GUILFORD OF MAINE	ANCHORAGE COLOR FERN	2" THICK, REF. INTERIOR ELEVATIONS FOR SIZE	
AWP4	ACOUSTICAL WALL PANEL	GUILFORD OF MAINE	ANCHORAGE COLOR ONYX	2" THICK, REF. INTERIOR ELEVATIONS FOR SIZE	
AWP5	ACOUSTICAL WALL PANEL	TECTUM WOOD PANELS	0.65 NRC OR HIGHER; DIRECT ATTACH; FIELD APPLIED COLOR TO MATCH P2	2" THICK, REF. INTERIOR ELEVATIONS FOR SIZE	
AWP6	ACOUSTICAL WALL PANEL	TECTUM WOOD PANELS	0.65 NRC OR HIGHER; DIRECT ATTACH; FIELD APPLIED COLOR TO MATCH P7	2" THICK, REF. INTERIOR ELEVATIONS FOR SIZE	
AWP7	ACOUSTICAL WALL PANEL	TECTUM WOOD PANELS	0.65 NRC OR HIGHER; DIRECT ATTACH; FIELD APPLIED COLOR TO MATCH P3	2" THICK, REF. INTERIOR ELEVATIONS FOR SIZE	
FWP1	FABRIC WRAPPED PANEL	CARNEGIE XOREL AND TACKBOARD	FABRIC WRAPPED PANELS FABRIC: CARNEGIE XOREL COLOR METEOR6427W 2009, SQUARE EDGES, BUTT JOINT SEAM	1" THICK. REF. INTERIOR ELEVATIONS	
09 90 00 - PAINTING AND COATING					
P1	INTERIOR PAINT	SHERWIN WILLIAMS	SW7056 RESERVED WHITE		FIELD
P2	INTERIOR PAINT	SHERWIN WILLIAMS	SW9170 ACIER		ACCENT - GRAY
P3	INTERIOR PAINT	SHERWIN WILLIAMS	SW7020 BLACK FOX		ACCENT - BLACK
P4	INTERIOR PAINT	SHERWIN WILLIAMS	SW6734 ESPALIER		ACCENT - DARK GREEN
P5	INTERIOR PAINT	SHERWIN WILLIAMS	SW6438 DILL		ACCENT - MEDIUM GREEN
P6	INTERIOR PAINT	SHERWIN WILLIAMS	SW6437 HAVEN		ACCENT - LIGHT GREEN
P7	INTERIOR PAINT	SHERWIN WILLIAMS	SW6510 LOYAL BLUE		ACCENT - BLUE
P8	INTERIOR PAINT	SHERWIN WILLIAMS	SW7019 GAUNTLET GREY		DOOR FRAMES
10 - SPECIALTIES					
10 11 00 - VISUAL DISPLAY UNITS					
GMB1	GLASS MARKERBOARD	CALYX BY CLARIDGE	MAGNETIC GLASS WITH INVISI-MOUNT MOUNTING STYLE. COLOR OMBRIA 2 TONE SAGE	48" H, REF. INTERIOR ELEVATIONS FOR WIDTH	
MB1	MARKERBOARD	POLYVISION	CERAMICSTEEL 6100HE / 401048 BATCH #231307	48" X 96"	TEACHING WALLS, REFER TO INTERIOR ELEVATIONS
MB2	MARKERBOARD	CLARIDGE	WALL-WRITE MARKER WALL, COLOR NO.100 WHITE	48" W X 106" H	
TB1	TACKBOARD	KOROSEAL WALLTALKERS	TAC-WALL DEEP SEA 14	48" X 48"	TEACHING WALLS, REFER TO INTERIOR ELEVATIONS
TB2	TACKBOARD	KOROSEAL WALLTALKERS	TAC-WALL QUARRY 82		RECEPTION DESK, SEE DETAILS
10 14 00 - SIGNAGE					
WC1	WALLCOVERING	AVERY DENNISON	MPI 1405 WITH DOL 6460, ARCHITECT TO PROVIDE CUSTOM ARTWORK		
10 22 00 - PARTITIONS					
TP1	TOILET PARTITIONS	ASI GLOBAL PARTITIONS	SOLID PLASTIC HDPE,HAMMERED FINISH, COLOR: METALLIC SILVER 9511		
11 - EQUIPMENT					
11 61 43- STAGE CURTAINS					
CT1	STAGE TRACK AND CURTAINS	KM FABRICS	MEMORABLE, COLOR: BLACK	REF. INTERIOR ELEVATIONS.	
11 66 73 - WALL PADDING					
WP1	WALL PADDING	DRAPER	ECOVISION WALL PADS, COLOR: DARK ROYAL BLUE	2' X 6'	1" FABRIC WRAPPED MOUNTING FLANGES AT PANEL TOP AND BOTTOM
12 - FURNISHINGS					
12 24 13 - ROLLER SHADES					
WT1	WINDOW TREATMENT	DRAPER	E SCREEN 1% OPENNESS, COLOR WHITE / PEARL	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	DRAPER	E SCREEN 3% OPENNESS, COLOR WHITE / PEARL	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
WT3	WINDOW TREATMENT	DRAPER	SUNBLOCK, COLOR GRAY	SHADES TO EXTEND FULL LENGTH OF EXPOSED GLASS	MOTORIZED SHADES TO BE PROVIDED AT ALL GYMNASIUM WINDOWS
12 32 16 - MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK					
PL1	PLASTIC LAMINATE	FORMICA	AMBER MAPLE 07012-58 MATTE FINISH		CABINETS, U.N.O.
PL2	PLASTIC LAMINATE	FORMICA	CITADEL WARP 5882-58, MATTE FINISH		COUNTERTOPS, U.N.O.
PL3	PLASTIC LAMINATE	FORMICA	MILK 9634-58, MATTE FINISH		
PR1	PHENOLIC RESIN COUNTERTOP	DURCON	CHEMICAL RESISTANT, COLOR: BLACK		
SSM1	SOLID SURFACE MATERIAL	CORIAN	ARTISTA SAGE		
SSM2	SOLID SURFACE MATERIAL	CORIAN	CAMEO WHITE		

FINISH FLOOR PLAN LEGEND



GENERAL FINISH NOTES

1. REFER TO THE FINISH PLANS, INTERIOR ELEVATIONS, AND INTERIOR FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
2. ALL FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. ALL FINISHES LISTED AS "TBD" TO BE SELECTED FROM BASIS OF DESIGN MANUFACTURER'S FULL RANGE OF COLORS.
4. SEE SHEET A-702 FOR FLOORING TRANSITION DETAILS AND FLOOR CONTROL JOINT DETAILS.
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6. **ALL INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 OF THE 2018 NC BUILDING AND FIRE CODES. REFER TO SPECIFICATIONS FOR CLASS RATINGS FOR EACH FINISH MATERIAL.**

PAINT NOTES

1. PAINT P1 STANDARD WALL FIELD IN ALL LOCATIONS U.N.O.
2. EPOXY PAINT TYPICAL AT ALL RESTROOMS, JANITOR CLOSETS, AND KITCHEN / SERVING AREAS.
3. SEMIGLOSS PAINT TYPICAL AT ALL CONCRETE MASONRY WALLS AND HOLLOW METAL DOOR FRAMES, U.N.O.
4. EGGSHELL PAINT TYPICAL AT ALL GYPSUM BOARD WALLS U.N.O.
5. FLAT PAINT TYPICAL AT ALL CEILING & BULKHEAD CONDITIONS, U.N.O.
6. PAINT COLORS DESIGNATED AT COLUMN SURROUNDS TO BE APPLIED TO ALL SIDES OF COLUMN UP TO CEILING.
7. PAINT COLORS DESIGNATED AT BULKHEADS TO BE APPLIED TO ENTIRE VERTICAL AND HORIZONTAL FACES, UNLESS NOTED OTHERWISE IN RCP AND ELEVATIONS.
8. ALL EXPOSED STRUCTURE AND DECK IN GYM - DRY FOG WHITE
   EXPOSED DUCTWORK IN GYM ACCENT PAINT - TBD
   MEP PIPE, CONDUITS, EQUIPMENT/ACCESSORIES, ETC. - DRY FOG WHITE

FLOOR PATTERN PLAN LEGEND

WAF1
WOOD ATHLETIC FLOORING

CPT1
CARPET TILE

EM1
ENTRY MAT

LVT1 - FIELD
LUXURY VINYL TILE

LVT2 - ACCENT (6TH GRADE)
LUXURY VINYL TILE

LVT3 - ACCENT (7TH GRADE)
LUXURY VINYL TILE

LVT4 - ACCENT (8TH GRADE)
LUXURY VINYL TILE

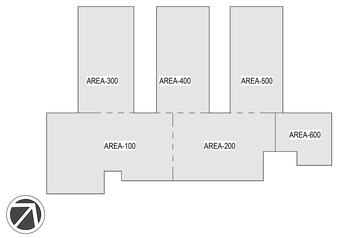
LVT5 - ACCENT (EQUAL MIX OF LVT2-4)
LUXURY VINYL TILE

RSF1
RESINOUS FLOORING

RSF2
RESINOUS FLOORING

SC1
SEALED CONCRETE

RF1
RUBBER FLOORING



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RALEIGH, NORTH CAROLINA

ERIC J. LINDSTROM
REGISTERED ARCHITECT
7040
RENEWAL DATE: 12/31/2025
FAYETTEVILLE, N.C.

Construction Documents

Lenoir County
EB Frink Middle School
405 North Charles Street La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
2	03/05/2025	BID ADDENDUM 1
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: RLH
CHECKED BY: MK

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INTERIOR FINISH LEGEND

A-701

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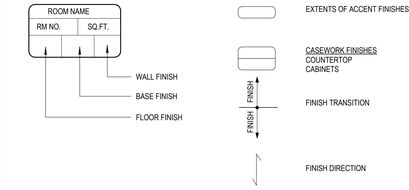
1 / A-716 **FINISH FLOOR PLAN-AREA 600**
SCALE: 1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND



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FLOOR PATTERN PLAN LEGEND

- **WAF1** WOOD ATHLETIC FLOORING
- **CPT1** CARPET TILE
- **EM1** ENTRY MAT
- **LVT1 - FIELD** LUXURY VINYL TILE
- **LVT2 - ACCENT (6TH GRADE)** LUXURY VINYL TILE
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- **LVT5 - ACCENT (EQUAL MIX OF LVT2-4)** LUXURY VINYL TILE
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- **RSF2** RESINOUS FLOORING
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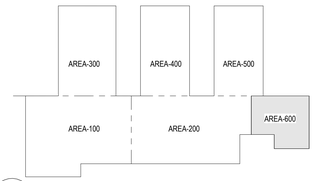
- **RF1** RUBBER FLOORING



KEY PLAN 600

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ENERGY STAR PARTNER

No.	Date	Description
4	04/17/2025	BID ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: RLH
CHECKED BY: MK

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FINISH FLOOR PLAN - AREA 600

A-716

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STORAGE TANK WATER HEATER CALC. - KITCHEN

WASH SINK EQUIPMENT (CALCULATED AT 75% CAPACITY)	# OF COMPARTMENTS	(INCHES) LENGTH	WIDTH	DEPTH	GALLONS PER HOUR (GPH)
TRIPLE COMPARTMENT POT SINK #1	3	24	24	12	68

PREP SINK EQUIPMENT (CALCULATED AT 5 GPH PER COMPARTMENT)	# OF COMPARTMENTS	GALLONS PER HOUR (GPH)
PREP SINK - #13	3	5
PREP SINK - #13	1	5
PREP SINK - #13	1	5

OTHER KITCHEN EQUIPMENT	GPH EACH	QUANTITY	GALLONS PER HOUR (GPH)
HAND SINK	5	3	15
CAN WASH	10	1	10
MOP SINK	5	1	5
HOSE REEL	5	1	5
CLOTHES WASHER	15	0	0
KITCHEN HOOD EQUIPMENT	5	1	5
PRE-RINSE SINK	35	2	70

DISH MACHINE (CALCULATED AT 70% OF MFG. FINAL RINSE)	FINAL RINSE	QUANTITY	GALLONS PER HOUR (GPH)
HOBART MODEL CL44eN	126	1	126
		RECOVERY RATE NEEDED (GPH)	319

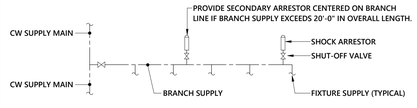
GAS WATER HEATER BTU REQUIRED AT 100°F RISE: 399,000

ELECTRIC WATER HEATER KW REQUIRED AT 100°F RISE: 451

NOTES:
1. WATER HEATER CALCULATIONS BASED ON THE NC DIVISION OF HEALTH STORAGE WATER HEATER CRITERIA.

SHOCK ARRESTOR TABLE

DRAWING SYMBOL	FIXTURE UNITS	P.D.I. WH201 DESIGNATION	ARRESTOR SIZE	REMARKS
SA-A	1 - 11	A	1/2"	INSTALL SHOCK ARRESTORS PER THE PLUMBING DRAINAGE INSTITUTE (P.D.I.) GUIDELINES.
SA-B	12 - 32	B	3/4"	
SA-C	33 - 60	C	1"	
SA-D	61 - 113	D	1-1/4"	ACCEPTED MANUFACTURERS: SIOUX CHIEF, WATTS, PPP INC., ZURN
SA-E	114 - 154	E	1-1/2"	



PLUMBING SPECIALTIES SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE W	V	CW	HW	SPECIFICATION	REMARKS
WB1	ICE MAKER BOX; 7"X 7"X 3.5", 20 GAUGE STEEL, WHITE POWDER COATING, SHOCK ARRESTOR, RECESSED	-	-	1/2"	-	FIXTURE: GUY GRAY MIB1AB STOP: QUARTER TURN WITH SHOCK ARRESTOR SUPPLY: 1/4" FLEXIBLE HOSE	PROVIDE INLINE DOUBLE CHECK VALVE WILKINS SERIES 700
WB2	WASHING MACHINE CONNECTION BOX; 7"X 7"X 3.5", 20 GAUGE STEEL, WHITE POWDER COATING, SHOCK ARRESTORS, RECESSED	-	-	1/2"	-	FIXTURE: GUY GRAY MWB26 STOP: QUARTER TURN WITH SHOCK ARRESTOR SUPPLY: 1/4" FLEXIBLE HOSE	PROVIDE INLINE DOUBLE CHECK VALVE WILKINS SERIES 700
WB3	INDIRECT DRAIN CONNECTION BOX; 14"x 9"x 3.5", 20 GAUGE STEEL, WHITE POWDER COATING, RECESSED	2"	1-1/2"	-	-	FIXTURE: GUY GRAY T200LV WITH KNOCK-OUTS IN TOP OF BOX 2" DRAIN OUTLET	
CS-x	BALANCING VALVE, THERMOSTATIC, AUTOMATIC, SUFFIX INDICATES PIPE SIZE, SEE FLOOR PLANS	-	-	-	**	EQUIPMENT: CIRCUIT SOLVER CS SERIES, SIZES 1/2" THRU 2", NSF 61 CERTIFIED.	PROVIDE 105°F MODEL
SA-x	SHOCK ARRESTOR, SUFFIX INDICATES PDI SIZE	-	-	x	-	EQUIPMENT: SIOUX CHIEF 650 SERIES, SIZES 1/2" THRU 2", NSF 61 CERTIFIED.	SEE SHOCK ARRESTOR TABLE THIS SHEET
HB1	HOSE BIBB, INTERIOR, EXPOSED, STAINLESS STEEL FACE PLATE, ANTI-SIPHON	-	-	3/4"	-	EQUIPMENT: WOODFORD 26P, PROVIDE VACUUM BREAKER AND METAL LOOSE KEY FOR EACH HOSE BIBB	MOUNT 18" AFF
HB2	HOSE BIBB, EXTERIOR, EXPOSED, STAINLESS STEEL FACE PLATE, FREEZELESS, ANTI-SIPHON	-	-	3/4"	-	EQUIPMENT: WOODFORD 65 PROVIDE VACUUM BREAKER AND METAL LOOSE KEY FOR EACH HOSE BIBB	MOUNT 18" AFF
HB3	CAN WASH TRIM, EXTERIOR MIXING HYDRANT, FREEZEPROOF, ANTI-SIPHON.	-	-	1/2"	1/2"	EQUIPMENT: WOODFORD HCB67-8R	MOUNT 36" AFF
CO	PLUG CLEANOUT, CAST IRON BODY	**	-	-	-	CLEANOUT: ZURN Z-1440-BP, BRONZE PLUG	GAS / WATER TIGHT
WCO	WALL CLEANOUT, CAST IRON BODY, STAINLESS STEEL WALL PLATE	**	-	-	-	CLEANOUT: ZURN Z-1446-BP, BRONZE PLUG	GAS / WATER TIGHT
FCO	FLOOR CLEANOUT, CAST IRON BODY, NICKEL BRONZE TOP, ADJUSTABLE	**	-	-	-	CLEANOUT: ZURN ZN-1400-BP, BRONZE PLUG	GAS / WATER TIGHT, INSTALL TOP FLUSH WITH FINISHED FLOOR
YCO	YARD CLEANOUT, CAST IRON BODY, NICKEL BRONZE TOP, ADJUSTABLE, INSTALLED IN 18"x18"x6" CONCRETE PAD	**	-	-	-	CLEANOUT: ZURN ZN-1400-BP, BRONZE PLUG INSTALL IN 18"x 18"x 6" DEEP CONCRETE PAD	GAS / WATER TIGHT, INSTALL TOP FLUSH WITH FINISHED GRADE
FD1	FLOOR DRAIN, CAST IRON BODY, SQUARE NICKEL BRONZE GRATE, ADJUSTABLE	3"	2"	-	-	DRAIN: ZURN ZN415-SZ1	INSTALL TOP FLUSH WITH FINISHED FLOOR. SEE NOTE 1 BELOW.
FD2	FLOOR DRAIN, CAST IRON BODY, ROUND NICKEL BRONZE GRATE, ADJUSTABLE	3"	2"	-	-	DRAIN: ZURN ZN415	INSTALL TOP OF DRAIN LIP FLUSH WITH FLOOR. SEE NOTE 1 BELOW.
FD3	CONDENSATE DRAIN, CAST IRON BODY, ROUND COATED GRATE, ADJUSTABLE	3"	2"	-	-	DRAIN: ZURN ZN415-i	INSTALL TOP OF DRAIN LIP 2" AFF.
FS1	FLOOR SINK, 12"x 12"x 6" DEEP, STAINLESS STEEL BODY AND GRATE					DRAIN: ZURN Z1750	SEE KITCHEN EQUIP. PLANS FOR GRATE (FULL / QUARTER / HALF)
FS2	FLOOR TROUGH BY FOOD SERVICE EQUIPMENT CONTRACTOR STAINLESS STEEL BODY AND GRATE	4"	2"	-	-	DRAIN: PROVIDED BY F.S.E.C. INSTALLED BY P.C.	-

NOTES:
1. PROVIDE WATERLESS INLINE TRAP GUARD FOR EACH FLOOR DRAIN CONFORMING TO ASSE 1072 AND EQUAL TO RECOTORSEAL "SURE-SEAL" MODEL SS3009V. INSTALL TRAP GUARDS IN THE OUTLET OF THE FLOOR DRAIN BODY (NOT IN THE STRAINER).
2. REFER TO THE FOOD SERVICE EQUIPMENT DRAWINGS FOR LOCATIONS OF HALF, THREE-QUARTERS, FULL, ETC. STRAINER CONFIGURATIONS.

** MATCH PIPE SIZE SHOWN ON PLANS, SEE PLANS.

APPROVED EQUALS: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT. PROVIDE PRODUCTS MADE BY THE MANUFACTURER'S LISTED.	PRODUCT TYPE:	ACCEPTED MANUFACTURERS:
	SHOCK ARRESTOR HOSE BIBBS DRAINS BACKFLOW PREVENTER	SIOUX CHIEF, PPP INC., ZURN, WATTS ZURN, WOODFORD, ZURN, J.R. SMITH ZURN, J.R. SMITH, WADE WILKINS, WATTS, APOLLO

HOT WATER RECIRCULATION PUMP SCHEDULE

SYMBOL	DESCRIPTION	CAPACITY GPM	FT-HD	ELECTRICAL DATA HP	V	PH	HZ	SPECIFICATION	NOTES
CP1	CIRCULATION PUMP SERVING WH1 INLINE	8.0	8.0	1/6	120	1	60	BELL & GOSSETT NBF-33	1-4
CP2	CIRCULATION PUMP SERVING WH2 INLINE	3.0	20.0	1/6	120	1	60	BELL & GOSSETT ECOCIRC+ 20-18	1-4

NOTES:
1. APPROVED MANUFACTURERS: BELL & GOSSETT, GRUNDFOS, GOULDS, TACO.
2. PUMP SHALL BE BRONZE OR STAINLESS STEEL CONSTRUCTION.
3. MOUNT SECURELY FROM STRUCTURE SUCH THAT THE PIPING BEARS NO WEIGHT OF THE PUMP.
4. INTERLOCK WITH FULLY ADJUSTABLE AQUASTAT AND 7-DAY, 24 HOUR TIMER.

WATER HEATER SCHEDULE

SYMBOL	DESCRIPTION	STORAGE (GAL)	GPH AT 100 °F RISE	INPUT (BTU/H)	ELECTRICAL V	PH	SPECIFICATION	NOTES
WH1	SCHOOL (LESS KITCHEN) VERTICAL STORAGE, CONDENSING, GAS-FIRED	119	451	399,999	120	1	A.O. SMITH BTH-400A-LP	1 - 7
WH2	KITCHEN VERTICAL STORAGE, CONDENSING, GAS-FIRED	119	451	399,999	120	1	A.O. SMITH BTH-400A-LP	1 - 7

NOTES:
1. APPROVED MANUFACTURERS: BRADFORD WHITE, RHEEM, STATE INDUSTRIES, A.O. SMITH.
2. WATER HEATER SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NORTH CAROLINA ENERGEY EFFICIENCY CODE.
3. SET WATER HEATER OUTLET TEMPERATURE TO 140 °F.
4. SEE PLUMBING DETAIL SHEETS FOR INSTALLATION.
5. PROVIDE UNIT WITH OPTIONAL GAS PRESSURE REGULATING VALVE SET TO 7" WC, CPVC CONCENTRIC VENT TERMINATION KIT SIZED PER MANUFACTURER, CONDENSATE NEUTRALIZATION KIT AND ALARM MODULE.
6. PROVIDE UNIT WITH FIVE (5) YEAR MANUFACTURER'S WARRANTY.
7. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE ANY ADDITIONAL TAPS IN COLD AND HOT WATER SUPPLY AND RETURN PIPING NECESSARY FOR MONITORING BY THE BUILDING AUTOMATION SYSTEM. ALL ASSOCIATED SENSORS AND CONTROL WIRING TO BE PROVIDED BY THE MECHANICAL CONTRACTOR.

THERMAL EXPANSION TANK SCHEDULE

SYMBOL	DESCRIPTION	TOTAL VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	WEIGHT (LB)	SPECIFICATION	NOTES
ET1	EXPANSION TANK SERVING WH1 DIAPHRAGM, THERMAL EXPANSION	5.0	3.3	28.0	WESSELS TTA-12	1 - 3
ET2	EXPANSION TANK SERVING WH2 DIAPHRAGM, THERMAL EXPANSION	5.0	3.3	28.0	WESSELS TTA-12	1 - 3

NOTES:
1. APPROVED MANUFACTURERS: AMTROL, BELL & GOSSETT, WATTS, WESSELS.
2. PROVIDE WITH PRESSURE GAUGE, AIR-CHARGE FITTING, AND TANK DRAIN; PRECHARGE TO 40.0 PSI.
3. MOUNT SECURELY AND INDEPENDENTLY FROM STRUCTURE SUCH THAT THE PIPING BEARS NO WEIGHT OF THE EXPANSION TANK.

INTERCEPTOR SCHEDULE

SYMBOL	DESCRIPTION	INLET & OUTLET (")	CAPACITY (GAL)	SPECIFICATION	NOTES
GI1	HYDROMECHANICAL GREASE INTERCEPTOR	4	1500 TOTAL	SCHIER GB-1500	1

NOTES:
1. APPROVED MANUFACTURERS: SCHIER, ENDURA, MI-FAB

DOMESTIC WATER PRESSURE BOOSTER PUMP SCHEDULE

SYMBOL	DESCRIPTION	TYPE	CAPACITY GPM	FT-HD	ELECTRICAL DATA HP	V	PH	HZ	SPECIFICATION	NOTES
DBP1	DOMESTIC BOOSTER PUMP DUPLEX PACKAGED SYSTEM	END SUCTION	205	70.0	5.0 (EACH)	480	3	60	HYFAB MVP-630-460 DUPLEX PUMP PACKAGE HYFAB FC-60V HYDROPNEUMATIC TANK	1-3

NOTES:
1. APPROVED MANUFACTURERS: GRUNDFOS, TIGERFLOW
2. PROVIDE BOOSTER PUMP PACKAGE WITH A 16 GALON HYDRO-PNEUMATIC TANK.
3. DOMESTIC WATER PRESSURE BOOSTER PUMP PACKAGE STARTUP SHALL BE PERFORMED BY AN AUTHORIZED MANUFACTURERS TECHNICIAN.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE W	V	CW	HW	SPECIFICATION	REMARKS
P1	FIXTURE: TOILET. ELONGATED, WHITE VITREOUS CHINA, CARRIER MOUNTED, TOP SPUD, 1.6 GPF. FLUSH VALVE: BATTERY POWERED, SENSOR OPERATED, PUSH-BUTTON OVERRIDE, 1.6 GPF.	4"	2"	1-1/4"	-	FIXTURE: AMERICAN STANDARD 3351.101-1.6 "AFWALL" FLUSH VALVE: SLOAN 111-SFSM-1.6 SEAT: BEMIS 1955-SS-CT	NOTE 1
P1A	FIXTURE: TOILET ADA. ELONGATED, WHITE VITREOUS CHINA, CARRIER MOUNTED, TOP SPUD, 1.6 GPF. FLUSH VALVE: BATTERY POWERED, SENSOR OPERATED, PUSH-BUTTON OVERRIDE, 1.6 GPF.	4"	2"	1-1/4"	-	FIXTURE: AMERICAN STANDARD 3351.101-1.6 "AFWALL" FLUSH VALVE: SLOAN 111-SFSM-1.6 SEAT: BEMIS 1955-SS-CT	NOTE 1
P2	FIXTURE: URINAL. WHITE VITREOUS CHINA, CARRIER MOUNTED, 0.5 GPF FLUSH VALVE: BATTERY POWERED, SENSOR OPERATED, PUSH-BUTTON OVERRIDE, 0.5 GPF.	2"	2"	3/4"	-	FIXTURE: AMERICAN STANDARD 6590.001 "WASHBROOK" FLUSH VALVE: SLOAN ROYAL 186-SFSM-0.5	NOTE 2
P2A	FIXTURE: URINAL, ADA. WHITE VITREOUS CHINA, CARRIER MOUNTED, 0.5 GPF FLUSH VALVE: BATTERY POWERED, SENSOR OPERATED, PUSH-BUTTON OVERRIDE, 0.5 GPF.	2"	2"	3/4"	-	FIXTURE: AMERICAN STANDARD 6590.001 "WASHBROOK" FLUSH VALVE: SLOAN ROYAL 186-SFSM-0.5	NOTE 2
P3	FIXTURE: LAVATORY, ADA, 20"x18", WHITE ENAMELED CAST IRON, CARRIER MOUNTED, SINGLE HOLE. FAUCET: BATTERY POWERED, SENSOR OPERATED, POLISHED CHROME, LAMINAR SPRAY, INTEGRADED MIXING VALVE AND ABOVE DECK ELECTRONICS, 0.50 GPM.	2"	1-1/2"	1/2"	1/2"	FIXTURE: AMERICAN STANDARD 4869.001 "REGALYN" FAUCET: SLOAN EAF-250-BAT-ITM-CP-0.5GPM-AER-IQ-FCT GRID DRAIN: ZURN B743; P-TRAP: ZURN Z-8701 (1-1/4"x1-1/2", 17 GA.) SUPPLIES/STOPS: ZURN 8806-XL-LR-LK	NOTES 3, 5
P4A	FIXTURE: WATER COOLER & BOTTLE FILLER, ADA. STAINLESS STEEL FINISH, SINGLE BOWL, VANDAL RESISTANT, CARRIER MOUNTED, INTEGRAL WATER FILTER, SENSOR OPERATED BOTTLE FILLER WITH AUTO SHUT-OFF.	2"	1-1/2"	1/2"	-	FIXTURE: ELKAY LZS8WSLK P-TRAP: ZURN Z-870 (1-1/4"x1-1/2", 17 GA.) SUPPLY/STOP: ZURN 8806-XL-LR-LK	NOTE 4, 7
P4B	FIXTURE: WATER COOLER. STAINLESS STEEL FINISH, SINGLE BOWL, VANDAL RESISTANT, CARRIER MOUNTED, INTEGRAL WATER FILTER.	2"	1-1/2"	1/2"	-	FIXTURE: ELKAY LZS8L P-TRAP: ZURN Z-870 (1-1/4"x1-1/2", 17 GA.) SUPPLY/STOP: ZURN 8806-XL-LR-LK	NOTE 4, 7
P5A	FIXTURE: CASEWORK SINK, ADA. , 22"x22", SINGLE BOWL, 18 GAUGE STAINLESS STEEL, COUNTER MOUNTED, SELF RIMMING. FAUCET: 6" GOOSENECK FAUCET, WRIST BLADE HANDLES, VANDAL RESISTANT AERATOR, 1.5 GPM.	2"	1-1/2"	1/2"	1/2"	FIXTURE: ELKAY LRAD222255-3 FAUCET: AMERICAN STANDARD 6530.170 "MONTERREY" BASKET STRAINER: ZURN Z-8740 P-TRAP: ZURN 8703 (1-1/2"x2", 17 GA.) SUPPLY/STOP: ZURN 8806-XL-LR-LK	NOTE 5
P6	FIXTURE: MOP SINK. 24"x 24"x 12" TERRAZZO BASIN, 6" DROP FRONT WITH STAINLESS STEEL THRESHOLD CAP, 36" HIGH STAINLESS STEEL WALL GUARDS, HOSE, MOP HANGER BRACKET. FAUCET: POLISHED CHROME, 8" CENTERS, VACUUM BREAKER.	3"	2"	1/2"	1/2"	FIXTURE: FIAT TSB100-830AA-832AA-MSG2424 FAUCET: T&S BRASS B-0665-BSTR	PROVIDE CHECK VALVES ON BOTH HW & CW SUPPLIES TO MOP SINK.
P7A	FIXTURE: SHOWER, ADA COMPLIANT, PRESSURE BALANCED SHOWER VALVE WITH 1.5 GPM WALL MOUNTED SHOWER HEAD WITH HAND HELD SHOWER AND SLIDE BAR.	2"	2"	1/2"	1/2"	FIXTURE: TILED WALLS AND FLOOR BY G.C. SHOWER VALVE & HEAD: AMERICAN STANDARD 1662SG.211 PROVIDE FLOOR DRAIN 2" FD1 IN TILED FLOOR BASE	COORDINATE RIGHT OR LEFT HAND CONTROLS WITH ARCHITECTURAL PLANS AND ELEVATIONS

NOTES:
1. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. PROVIDE A FLOOR MOUNTED PLATE STYLE CARRIER EQUAL TO ZURN Z1201 SERIES. WHEN CARRIER IS LOCATED BEHIND A BLOCK WALL, PROVIDE EXTENDED STUD LENGTHS TO COMPENSATE FOR THE BLOCK WALL THICKNESS.
2. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. PROVIDE A FLOOR MOUNTED PLATE STYLE CARRIER EQUAL TO ZURN Z1222 SERIES. WHEN CARRIER IS LOCATED BEHIND A BLOCK WALL, PROVIDE EXTENDED STUD LENGTHS TO COMPENSATE FOR THE BLOCK WALL THICKNESS.
3. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. PROVIDE A FLOOR MOUNTED, ADJUSTABLE CONCEALED ARM CARRIER EQUAL TO ZURN Z1231 SERIES. WHEN CARRIER IS LOCATED BEHIND BLOCK WALL, PROVIDE EXTENDED CONCEALED ARM SLEEVES TO COMPENSATE FOR THE BLOCK WALL THICKNESS.
4. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. PROVIDE A FLOOR MOUNTED PLATE STYLE CARRIER EQUAL TO ZURN Z1225 SERIES. WHEN CARRIER IS LOCATED BEHIND A BLOCK WALL, PROVIDE EXTENDED STUD LENGTHS TO COMPENSATE FOR THE BLOCK WALL THICKNESS.
5. PROVIDE PRE-MANUFACTURED ADA COMPLIANT INSULATION KIT FOR EXPOSED P-TRAP AND SUPPLY TRIM UNDER SINK.
6. PROVIDE HEAVY DUTY CAST IRON CLOSET FLANGE WITH COMPRESSION SEAL AND TEST CAP EQUAL TO ZURN CF2980-CI4. OFFSET FLANGES ARE NOT ACCEPTABLE.
7. PROVIDE CANE APRON ON WATER COOLERS MOUNTED ON EXPOSED WALLS.
8. PROVIDE SOLIDS TRAP IN LIEU OF P-TRAP FOR ART ROOM SINK EQUAL TO ZURN Z1180.
9. COORDINATE RIGHT OR LEFT HAND CONTROLS AND SEATS WITH ARCHITECTURAL PLANS AND ELEVATIONS.

APPROVED EQUALS: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT. PROVIDE PRODUCTS MADE BY THE MANUFACTURER'S LISTED.	PRODUCT TYPE:	ACCEPTED MANUFACTURERS:
	VITREOUS CHINA FLUSH VALVES ENAMELED CAST IRON CARRIERS STAINLESS STEEL SINKS FAUCETS WATER COOLERS SUPPLIES, STOPS HOSE BIBBS UTILITY SINKS SHOWER VALVES	KOHLER, AMERICAN STANDARD, SLOAN SLOAN, ZURN, DELANEY KOHLER, AMERICAN STANDARD, ZURN ZURN, J.R. SMITH, WADE ELKAY, JUST, ADVANCE TABCO AMERICAN STANDARD, ZURN, CHICAGO ELKAY, HALSEY TAYLOR, HAWS ZURN, MCGUIRE, BRASSCRAFT ZURN, J.R. SMITH, WOODFORD FIAT, FLORESTONE, STERN WILLIAMS AMERICAN STANDARD, CHICAGO, SYMMONS

PLUMBING FIXTURE SCHEDULE (LAB SPACES)

SYMBOL	DESCRIPTION	CONNECTION SIZE W	V	CW	HW	SPECIFICATION	REMARKS
L1	LAB SINK BY CASEWORK SUPPLIER.	2"	1-1/2"	1/2"	1/2"	FIXTURE: SUPPLIED BY LAB EQUIP. SUPPLIER FAUCET: ELKAY LK500GN05T4 ACID WASTE NEUTRALIZATION DRUM TRAP: ANT1 - ZURN ZURN Z9A-PHIX (1-1/2") STRAINER: ZURN Z9A-WA-112-B SUPPLIES/STOPS: ZURN 8806-XL-LR-LK	SEE NOTE 1 BELOW. SEE DETAILS 8, 9, 10/P601
L2	LAB SINK BY CASEWORK SUPPLIER. PROVIDE AIR ADMITTANCE VALVE FOR VENTING.	2"	1-1/2"	1/2"	1/2"	FIXTURE: SUPPLIED BY LAB EQUIP. SUPPLIER FAUCET: ELKAY LK500GN05T4 ACID WASTE NEUTRALIZATION DRUM TRAP: ANT1 - ZURN ZURN Z9A-PHIX (1-1/2") STRAINER: ZURN Z9A-WA-112-B SUPPLIES/STOPS: ZURN 8806-XL-LR-LK AIR ADMITTANCE VALVE: STUDOR "RBGF-VENTY MATCH PIPE SIZE.	SEE NOTE 1 BELOW. SEE DETAILS 8, 9, 10/P601
L3	LAB SINK BY CASEWORK SUPPLIER. PROVIDE DECK MOUNTED EMERGENCY EYEWASH AT SINK. PROVIDE MIXING VALVE FOR CONNECTION TO EMERGENCY EYEWASH.	2"	1-1/2"	1/2"	1/2"	FIXTURE: SUPPLIED BY LAB EQUIP. SUPPLIER FAUCET: ELKAY LK500GN05T4 ACID WASTE NEUTRALIZATION DRUM TRAP: ANT1 - ZURN ZURN Z9A-PHIX (1-1/2") STRAINER: ZURN Z9A-WA-112-B SUPPLIES/STOPS: ZURN 8806-XL-LR-LK EMERGENCY EYEWASH: GUARDIAN G1805	SEE NOTE 1 BELOW. SEE DETAILS 8, 9, 10/P601
ES1	FIXTURE: EMERGENCY EYEWASH & SHOWER, ADA COMPLIANT, RECESSED EYEWASH, CEILING MOUNTED SHOWER, STAINLESS STEEL FINISH	2"	2"	1"	1"	FIXTURE: GUARDIAN GBF2170 THERMOSTATIC MIXING VALVE: GUARDIAN G6040	
EW1	EMERGENCY EYEWASH, ADA COMPLIANT COUNTER MOUNTED, HAND HELD	-	-	1/2"	1/2"	FIXTURE: BRADLEY S19-460EFW THMOSTATIC MIXING VALVE: BRADLEY S19-2000EFX8	ANSI Z358.1 COMPLIANT.

NOTES:
1. GRID DRAIN / TAIL PIECE AND PIPING FROM THE LAB SINK TO THE NEUTRALIZATION TRAP SHALL BE ACID RESISTANT SCHEDULE 40 POLYPROPYLENE PIPE (ASTM D4101, ASTM F1412), NSF LISTED, CSA CERTIFIED WITH POLYPROPYLENE FITTINGS (ASTM D4101, ASTM F1412) WITH MECHANICAL JOINTS.

APPROVED EQUALS: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT. PROVIDE PRODUCTS MADE BY THE MANUFACTURER'S LISTED.	PRODUCT TYPE:	ACCEPTED MANUFACTURERS:
	EMERGENCY FIXTURES ACID WASTE SPECIALTY	GUARDIAN, BRADLEY, SPEAKMAN ORION, ZURN, ENFIELD

ACID NEUTRALIZATION TRAP - ANT1 (TYPICAL EACH LAB SINK)

AT EACH LAB SINK, PROVIDE AN ACID NEUTRALIZATION DRUM TRAP EQUAL TO ZURN Z9A-PHIX, INCLUDING A GLASS-FILLED POLYPROPYLENE BODY WITH LOWER SEDIMENT CHAMBER, REMOVABLE NEUTRALIZATION CHAMBER, AND NEUTRALIZATION MEDIA . NEUTRALIZATION MEDIA SHALL CONSIST OF NON-HAZARDOUS SOLID ALKALI NON-RESIN MATERIALS. (Limestone, Marble, or Caustic Soda beads are NOT acceptable). SEE DETAIL 11/P601.

LAUNDRY TROUGH / LINT INTERCEPTOR - LI-1

STRIEM TUFF TROUGH TT-4 OR APPROVED EQUAL. 28 GALLON CAPACITY, 4'-0"x 18" x 12" POLYETHELENE LAUNDRY TRENCH WITH A REMOVABLE CORROSION RESISTANT PRIMARY FILTER SCREEN AND SECONDARY FILTER BASKET, INTERNALLY SLOPED FLOOR, AND REMOVABLE LID RATED FOR 450 LBS. PROVIDE WITH 4" OUTLET AND 4" P'TRAP. RECESSE INTERCEPTOR IN FLOOR. SEE SCHEMATIC 5/P602.

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Raleigh, NC 27601
P: 919.573.6350
F: 919.573.6355
www.sfla.biz

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NORTH CAROLINA PROFESSIONAL SEAL 043866 ENGINEER DANIEL A. REVILLA
4/17/2025

Construction Documents

optima engineering
434 Fayetteville St, Suite 2450, Raleigh, NC 27601
Phone: 919-926-2200 - www.optimaengineering.com
North Carolina License Number C-0914

Lenoir County
EB Frink Middle School
405 North Charles Street
La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
2	04/17/2025	ADDENDUM 3

ISSUE DATE: 02/18/2025
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PLUMBING SCHEDULES

P-002

Sheet No. 2

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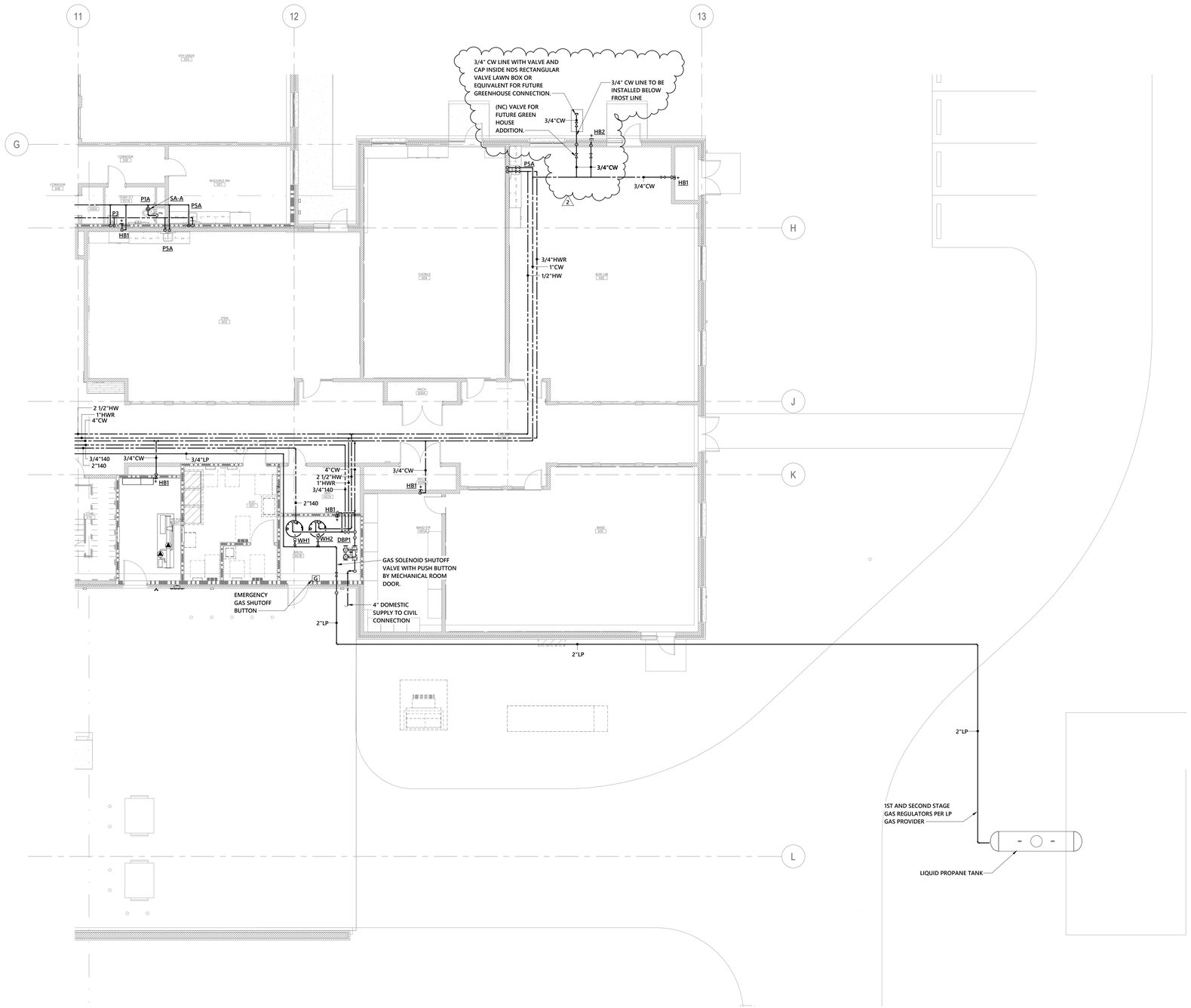
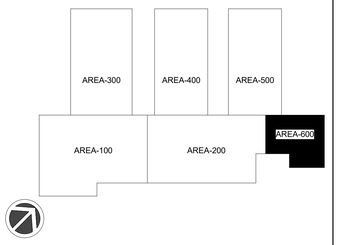


1 **FIRST FLOOR PLUMBING SUPPLY PLAN - AREA 600**
1/8" = 1'-0"

WALL LEGEND	
SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL

KEYPLAN



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FIRST FLOOR PLUMBING SUPPLY PLAN - AREA 600

P-216

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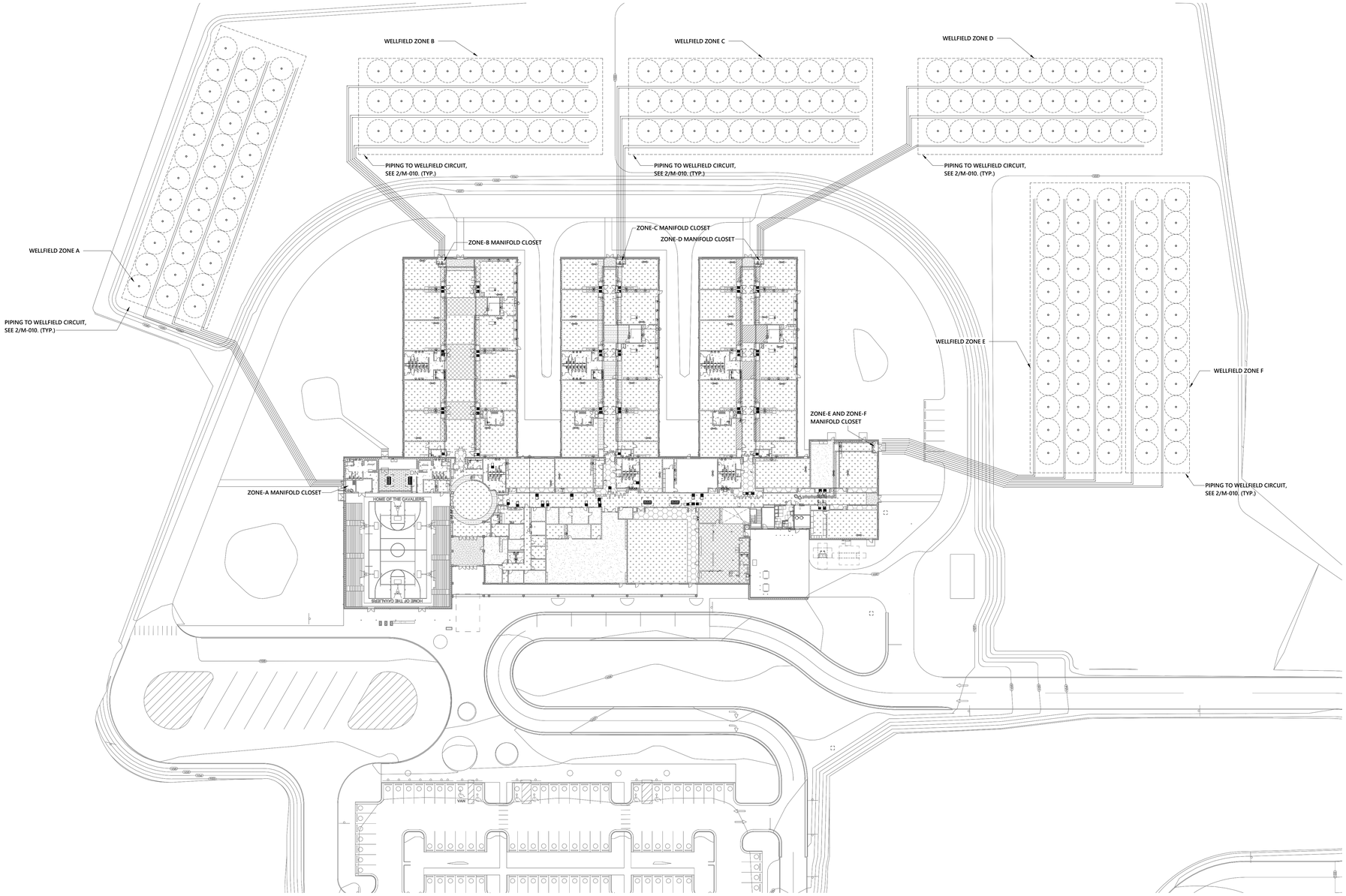
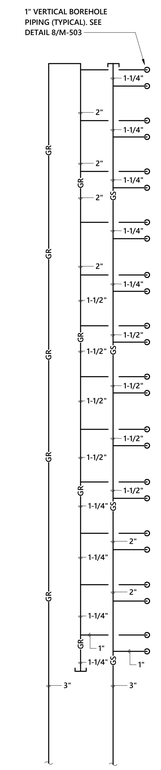


1 MECHANICAL GEOTHERMAL SITE PLAN
1" = 40'-0"



2 TYPICAL REVERSE RETURN CIRCUIT PIPING
1/8" = 1'-0"

GEOTHERMAL WELLFIELD SPECIFICATION

1. DRILLING MUST BE PERFORMED BY A CERTIFIED NORTH CAROLINA WELL DRILLER.
2. LOCATE WELLS A MINIMUM OF 20' APART. COORDINATE EXACT WELLFIELD LAYOUT BASED ON ACTUAL SITE CONDITIONS.
3. COORDINATE EXACT GEOTHERMAL PIPING LOCATIONS AND DEPTHS WITH ALL OTHER UNDERGROUND UTILITY LOCATIONS, SEE CIVIL PLANS.
4. GEOTHERMAL WELLFIELD IS DESIGNED BASED ON THE FOLLOWING:

SITE SPECIFIC PARAMETERS:
SOIL CONDUCTIVITY - 1.55 BTU/HR*FT*F
UNDISTRIBUTED SOIL TEMPERATURE - 66.5 DEG F

UTILIZING THE FOLLOWING VARIABLES:

ZONE-A
PEAK ZONE COOLING LOAD - 868.2 MBH
PEAK ZONE HEATING LOAD - 1,018.5 MBH
BASIC WELLFIELD GRID - 3 CIRCUITS, 12 WELLS PER CIRCUIT
WELL SEPARATION DISTANCE - 20' MINIMUM
BORE DIAMETER - 5"∅
BORE DEPTH - 300'
U-TUBE DIAMETER - 1" HDPE, SDR-11
GROUT CONDUCTIVITY - 1.20 BTU/HR*FT*F

ZONE-B
PEAK ZONE COOLING LOAD - 551 MBH
PEAK ZONE HEATING LOAD - 629.2 MBH
BASIC WELLFIELD GRID - 3 CIRCUITS, 10 WELLS PER CIRCUIT
WELL SEPARATION DISTANCE - 20' MINIMUM
BORE DIAMETER - 5"∅
BORE DEPTH - 300'
U-TUBE DIAMETER - 1" HDPE, SDR-11
GROUT CONDUCTIVITY - 1.20 BTU/HR*FT*F

ZONE-C
PEAK ZONE COOLING LOAD - 480.7 MBH
PEAK ZONE HEATING LOAD - 552.3 MBH
BASIC WELLFIELD GRID - 3 CIRCUITS, 10 WELLS PER CIRCUIT
WELL SEPARATION DISTANCE - 20' MINIMUM
BORE DIAMETER - 5"∅
BORE DEPTH - 300'
U-TUBE DIAMETER - 1" HDPE, SDR-11
GROUT CONDUCTIVITY - 1.20 BTU/HR*FT*F

ZONE-D
PEAK ZONE COOLING LOAD - 480.7 MBH
PEAK ZONE HEATING LOAD - 552.3 MBH
BASIC WELLFIELD GRID - 3 CIRCUITS, 10 WELLS PER CIRCUIT
WELL SEPARATION DISTANCE - 20' MINIMUM
BORE DIAMETER - 5"∅
BORE DEPTH - 300'
U-TUBE DIAMETER - 1" HDPE, SDR-11
GROUT CONDUCTIVITY - 1.20 BTU/HR*FT*F

ZONE-E
PEAK ZONE COOLING LOAD - 701.4 MBH
PEAK ZONE HEATING LOAD - 787.2 MBH
BASIC WELLFIELD GRID - 3 CIRCUITS, 12 WELLS PER CIRCUIT
WELL SEPARATION DISTANCE - 20' MINIMUM
BORE DIAMETER - 5"∅
BORE DEPTH - 300'
U-TUBE DIAMETER - 1" HDPE, SDR-11
GROUT CONDUCTIVITY - 1.20 BTU/HR*FT*F

ZONE-F
PEAK ZONE COOLING LOAD - 367.3 MBH
PEAK ZONE HEATING LOAD - 445.9 MBH
BASIC WELLFIELD GRID - 2 CIRCUITS, 12 WELLS PER CIRCUIT
WELL SEPARATION DISTANCE - 20' MINIMUM
BORE DIAMETER - 5"∅
BORE DEPTH - 300'
U-TUBE DIAMETER - 1" HDPE, SDR-11
GROUT CONDUCTIVITY - 1.20 BTU/HR*FT*F

AS A VALUE ENGINEERING OPTION, ALTERNATE WELLFIELD LAYOUTS MAY BE SUMBITTED DURING THE BIDDING PROCESS UTILIZING DIFFERENT COMBINATIONS OF THE VARIABLES, PROVIDED ALL NORTH CAROLINA STATE REGULATIONS ARE MET. CONTRACTOR SHALL SUBMIT FULL CALCULATIONS USING ALTERNATIVE METHODS FOR REVIEW AND APPROVAL BY THE MECHANICAL ENGINEER. ALTERNATE WELLFIELD DESIGNS MUST HAVE SIMILAR STAGING CAPACITY. WELLFIELD SUBSTITUTIONS, LIKE EQUIPMENT SUBSTITUTIONS, REQUIRE A 2-WEEK PRIOR APPROVAL BEFORE BID DAY. SHOULD PUMPING SYSTEM HEAD REQUIREMENTS AND/OR HORSEPOWERS CHANGE, OR ANY OTHER BUILDING SIDE CHANGE RESULT FROM REDESIGN OF THE WELLFIELD, ANY ADDITIONAL COSTS (INCLUDING ELECTRICAL CHANGES AND SITE CHANGES) SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

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MECHANICAL SITE PLAN

M-010

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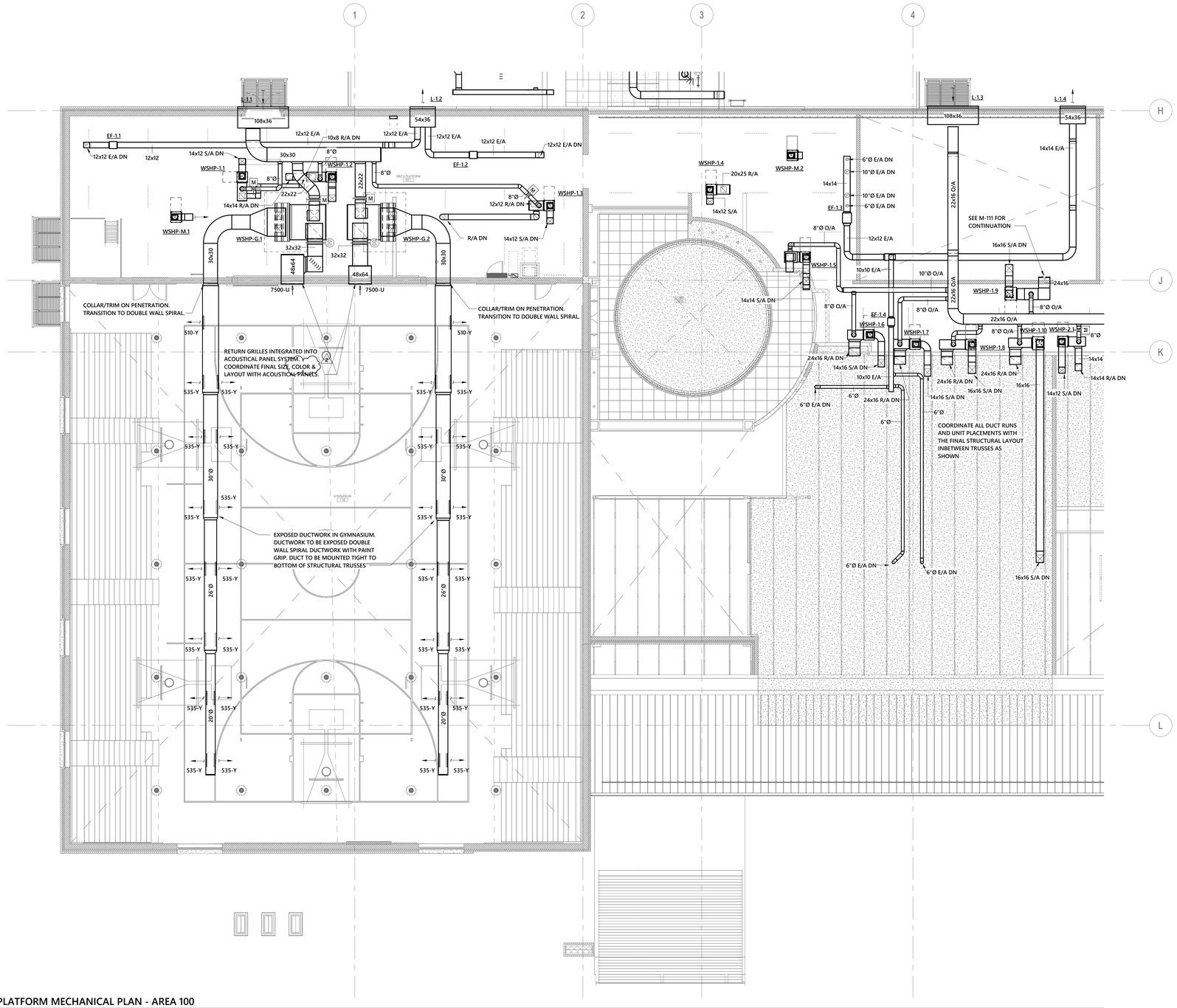
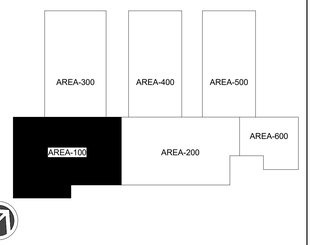


1 MECH. PLATFORM MECHANICAL PLAN - AREA 100
1/8" = 1'-0"

WALL LEGEND	
SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL

KEYPLAN



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North Carolina License Number C-0914

Lenoir County
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405 North Charles Street
La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
1	02/18/2025	BID SET /AGENCY COM
2	04/17/2025	ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
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MECH. PLATFORM MECHANICAL PLAN - AREA 100

M-117

Sheet No. 14 of 29

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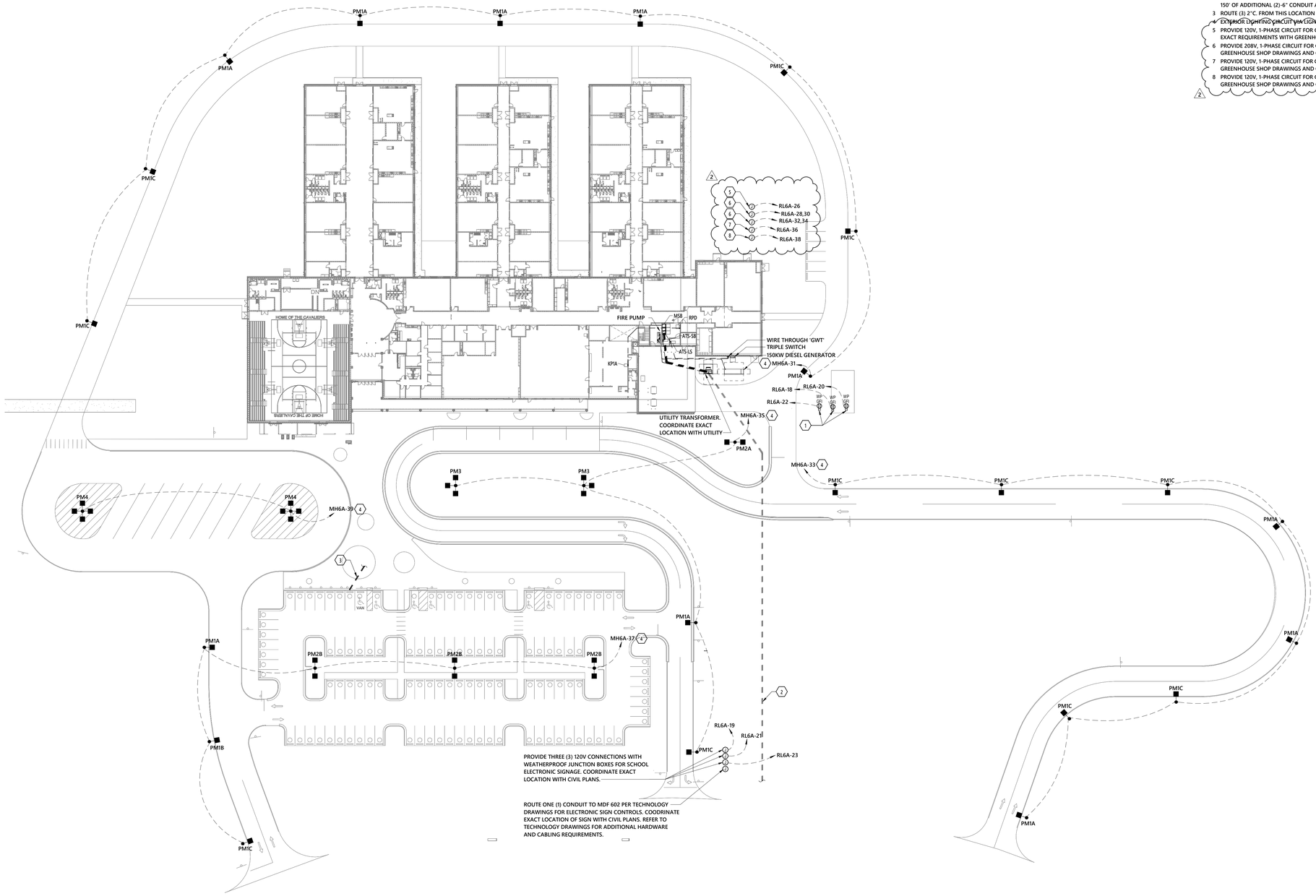
GENERAL NOTES - SITE PLAN

A. ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
B. ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.
C. ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.
D. PROVIDE TRANSFORMER BASE AT ALL POLE MOUNTED FIXTURES, TAP 2 LEGS OF THREE PHASE FEEDER (CIRCUITS DENOTED), PROVIDE BALLAST FUSES AT TAP, AND PROVIDE BRANCH CIRCUITS TO FIXTURES.

KEYNOTES

1 PROVIDE 120V CONNECTION FOR HOTBOXES. COORDINATE EXACT LOCATIONS WITH CIVIL ENGINEER PRIOR TO ROUGH-IN.
2 PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
3 ROUTE (3) 2"C. FROM THIS LOCATION TO ELECTRICAL ROOM FOR FUTURE EV CHARGERS.
4 EXTERIOR LIGHTING CIRCUITRY, LIGHTING CONTACTOR, ETC.
5 PROVIDE 120V, 1-PHASE CIRCUIT FOR GREENHOUSE LIGHTING, CIRCULATION FANS, AND SHUTTERS. COORDINATE EXACT REQUIREMENTS WITH GREENHOUSE SHOP DRAWINGS AND CIVIL DRAWINGS PRIOR TO ROUGH-IN.
6 PROVIDE 208V, 1-PHASE CIRCUIT FOR GREENHOUSE FAN. COORDINATE EXACT REQUIREMENTS WITH GREENHOUSE SHOP DRAWINGS AND CIVIL DRAWINGS PRIOR TO ROUGH-IN.
7 PROVIDE 120V, 1-PHASE CIRCUIT FOR GREENHOUSE HEATER. COORDINATE EXACT REQUIREMENTS WITH GREENHOUSE SHOP DRAWINGS AND CIVIL DRAWINGS PRIOR TO ROUGH-IN.
8 PROVIDE 120V, 1-PHASE CIRCUIT FOR GREENHOUSE SUMP PUMP. COORDINATE EXACT REQUIREMENTS WITH GREENHOUSE SHOP DRAWINGS AND CIVIL DRAWINGS PRIOR TO ROUGH-IN.



NOTE:

REFER TO TECHNOLOGY SITE PLAN.
SHEET T-010 FOR ADDITIONAL SITE PLAN REQUIREMENTS.

1 **ELECTRICAL SITE PLAN**
1" = 40'-0"

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2	04/17/2025	ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
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ELECTRICAL SITE PLAN

E-010

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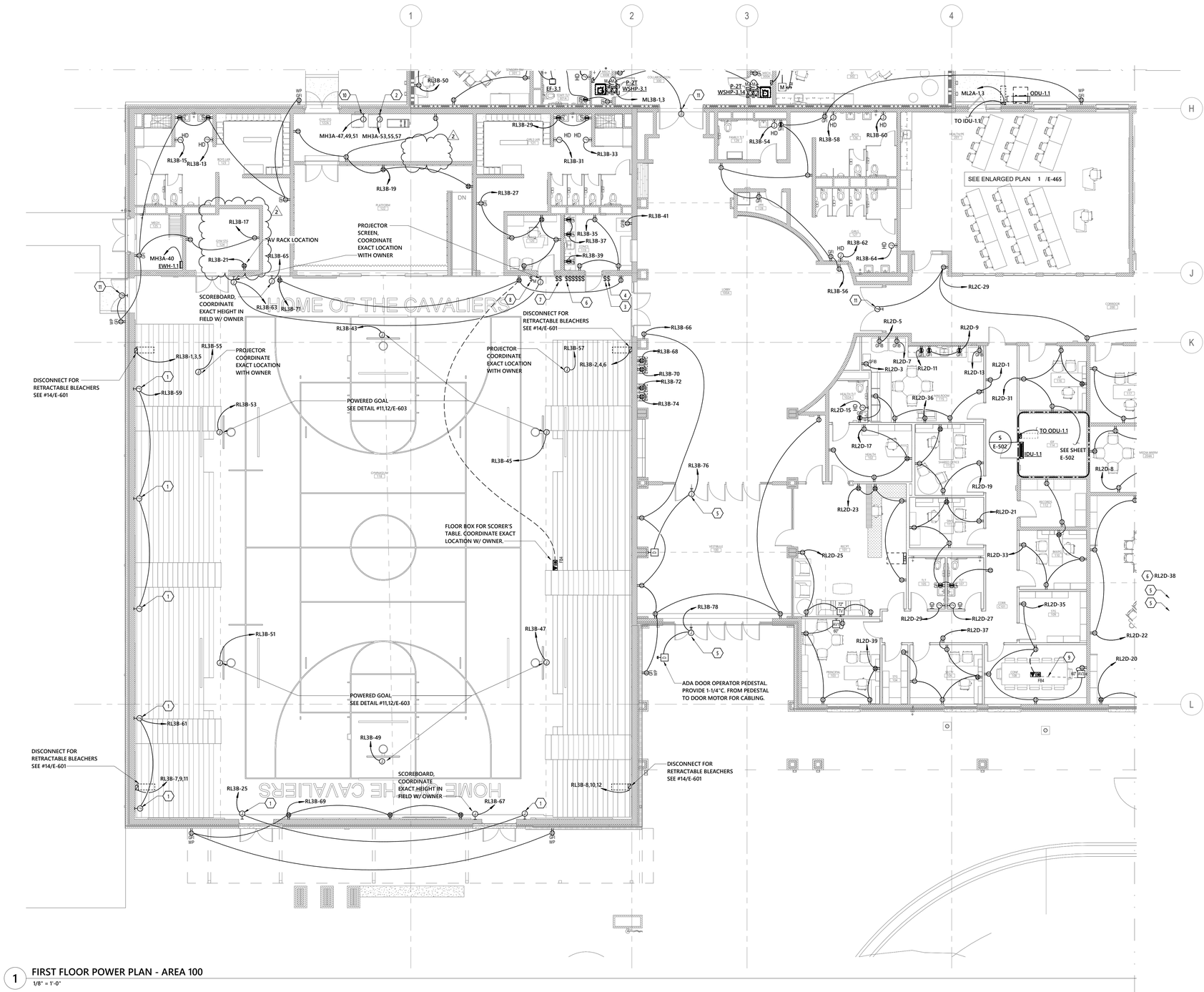


1 FIRST FLOOR POWER PLAN - AREA 100

1/8" = 1'-0"

NOTE:

REFER TO TECHNOLOGY SERIES FOR ADDITIONAL CONDUIT REQUIREMENTS.

GENERAL NOTES - POWER

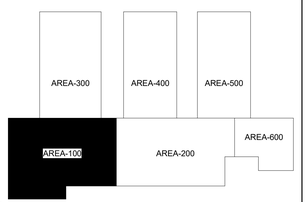
A. RECEPTACLES AND DATA OUTLETS SHALL NOT BE MOUNTED IN TRIM OF WINDOWS. LOCATED WHERE FULL WALL IS AVAILABLE.
B. COORDINATE LOCATION OF ALL FLOOR BOXES PRIOR TO ROUGH-IN. MULTIPLE BOXES IN THE SAME ARE SHALL BE NEATLY ALIGNED AND PARALLEL TO BUILDING LINES.
C. CIRCUIT NUMBERS ARE DIAGRAMMATIC. EXACT 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. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
E. 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.
F. REFER TO SECTION 26 0519 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 CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
I. WHERE DISCONNECT IS REQUIRED FOR MECHANICAL EQUIPMENT AND THERE IS NOT ADEQUATE WALL SPACE THE EC SHALL PROVIDE UNISTRUT STRUCTURE AS MOUNTING PROVISIONS.

KEYNOTES (#)

1 120V CONNECTION FOR GYMNASIUM MOTORIZED SHADES. COORDINATE EXACT REQUIREMENTS WITH SHADE INSTALLER AND ARCHITECT PRIOR TO ROUGH-IN.
2 PROVIDE 45A, 480V THREE PHASE CONNECTION FOR ATHLETIC DRYER. COORDINATE EXACT REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE WITH BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION IN ACCORDANCE WITH NEC 110.25.
3 KEYED RAISE/LOWER/STOP SWITCH FOR PLAN WEST SHADE CONTROL. MOUNT NEXT TO LIGHT SWITCHES ON WALL.
4 KEYED RAISE/LOWER/STOP SWITCH FOR PLAN SOUTH SHADE CONTROL. MOUNT NEXT TO LIGHT SWITCHES ON WALL.
5 120V CONNECTION FOR AUTOMATIC DOOR OPENER. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER PRIOR TO ROUGH-IN.
6 KEYED SWITCH FOR MOTORIZED GOALS TYPICAL OF (6) SIX. SEE DETAIL 11 & 12/ SHEET E-603.
7 KEYED IN/OUT/STOP SWITCH FOR MOTORIZED BLEACHER CONTROL TYPICAL OF (2) TWO. SEE DETAIL 14/ SHEET E-603.
8 PROJECTOR SCREEN CONTROL PROVIDED WITH SCREEN, INSTALLED BY E.C. COORDINATE LOCATION WITH OWNER AND GC.
9 PROVIDE 1.5" C. FROM FLOOR BOX TO TV BOX IN WALL. PROVIDE WITH PULL STRING.
10 PROVIDE 40A, 480V THREE PHASE CONNECTION FOR ATHLETIC WASHER WITH ELECTRIC WATER HEAT. COORDINATE EXACT REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE WITH BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION IN ACCORDANCE WITH NEC 110.25.
11 120V CONNECTION FOR DOOR. REFER TO TECHNOLOGY DRAWINGS FOR MORE INFORMATION. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER PRIOR TO ROUGH-IN.

WALL LEGEND	
SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL

KEYPLAN



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FIRST FLOOR POWER PLAN - AREA 100

E-211

Sheet No. 13 of 46

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PANEL: RL5A

VOLTAGE: 208Y/120 3Ø | **FED FROM:** T-RL5A
MOUNTING: SURFACE | **MAIN TYPE:** MCB
ENCLOSURE: NEMA1 | **PHASE:** 3 | **TYPE:** 20-INCH WIDE
MAIN: 225 A | **WIRE:** 4 | **AIC:** 10 KAIC

LC Abbr	Load Served	Wire	Trip	Ckt No	Pole	A	B	C	Pole	Ckt No	Trip	Wire	Load Served	LC Abbr
R	6TH GRADE 516: REC	12	20 A	1	1	0.72	0.72		1	2	20 A	12	EXTRA CLASSROOM 517: REC	R
R	6TH GRADE 516: REC	12	20 A	3	1		0.72	0.72	1	4	20 A	12	EXTRA CLASSROOM 517: REC	R
R	6TH GRADE 516: REC	12	20 A	5	1			0.90 0.90	1	6	20 A	12	EXTRA CLASSROOM 517: REC	R
R	6TH GRADE 514: REC	12	20 A	7	1	0.72	0.90		1	8	20 A	12	6TH GRADE SCIENCE 515: REC	R
R	6TH GRADE 514: REC	12	20 A	9	1		0.72	0.72	1	10	20 A	12	6TH GRADE SCIENCE 515: REC	R
R	6TH GRADE 514: REC	12	20 A	11	1			0.90 1.08	1	12	20 A	12	6TH GRADE SCIENCE 515: REC	R
R	6TH GRADE 512: REC	12	20 A	13	1	0.72	0.60		1	14	20 A	12	6TH GRADE SCIENCE 515: EPO	MS
R	6TH GRADE 512: REC	12	20 A	15	1		0.72	0.90	1	16	20 A	12	6TH GRADE SCIENCE 511: REC	R
R	6TH GRADE 512: REC	12	20 A	17	1			0.90 0.72	1	18	20 A	12	6TH GRADE SCIENCE 511: REC	R
R	6TH GRADE 504: REC	12	20 A	19	1	0.72	1.08		1	20	20 A	12	6TH GRADE SCIENCE 511: REC	R
R	6TH GRADE 504: REC	12	20 A	21	1		0.72	0.60	1	22	20 A	12	6TH GRADE SCIENCE 511: EPO	MS
R	6TH GRADE 504: REC	12	20 A	23	1			0.90 0.72	1	24	20 A	12	6TH GRADE 505: REC	R
R	EC 502: REC	12	20 A	25	1	1.26	0.72		1	26	20 A	12	6TH GRADE 505: REC	R
R	EC 502: REC	12	20 A	27	1		1.08	0.90	1	28	20 A	12	6TH GRADE 505: REC	R
R	EC 502: REC	12	20 A	29	1			0.90 0.72	1	30	20 A	12	6TH GRADE 503: REC	R
M	MOTORIZED DAMPERS	12	15 A	31	1	0.30	0.72		1	32	20 A	12	6TH GRADE 503: REC	R
M	MOTORIZED DAMPERS	12	15 A	33	1		0.30	0.90	1	34	20 A	12	6TH GRADE 503: REC	R
R	MECH. PLAT. AREA 100: REC	12	20 A	35	1			0.72 0.40	1	36	15 A	12	MOTORIZED DAMPERS	M
R	AREA 500 ROOF: REC	12	20 A	37	1	0.36	0.30		1	38	15 A	12	MOTORIZED DAMPERS	M
R	AREA 600 ROOF: REC	12	20 A	39	1		0.18	1.18	1	40	15 A	12	EF-2.7 (NOTE 9)	V
R	AREA 600 ROOF: REC	12	20 A	41	1			0.54 0.40	1	42	15 A	12	MOTORIZED DAMPERS	M

	LOAD	Connected Load	Demand Factor	Estimated Demand
L	LIGHTS	0.00 kVA	0.00%	0.00 kVA
LE	LIGHTING - EXTERIOR	0.00 kVA	0.00%	0.00 kVA
H	HEATING	0.75 kVA	100.00%	0.75 kVA
C	COOLING	0.00 kVA	0.00%	0.00 kVA
V	VENTILATION	5.09 kVA	100.00%	5.09 kVA
M	MOTORS	1.70 kVA	100.00%	1.70 kVA
K	KITCHEN	0.00 kVA	0.00%	0.00 kVA
R	RECEPTACLES	35.84 kVA	63.95%	22.92 kVA
WH	WATER HEATER	0.00 kVA	0.00%	0.00 kVA
MS	MISC.	9.94 kVA	100.00%	9.94 kVA
S	Spare	0.00 kVA	0.00%	0.00 kVA
E	ELEVATOR	0.00 kVA	0.00%	0.00 kVA
LD	LAUNDRY	0.00 kVA	0.00%	0.00 kVA
EV	EV CHARGING	0.00 kVA	0.00%	0.00 kVA

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.
7. PROVIDE PANEL WITH FEED-THRU LUGS.
8. LOAD TOTAL INCLUDES FEED-THRU SECTIONS.
9. REFER TO MECHANICAL SCHEDULES / SHEET E801 FOR WIRE SIZE.

TOTAL KVA...	53.32 kVA	TOTAL PER PHASE: (CONNECTED)	
TOTAL KVA (DEMAND):	40.40 kVA	148.0 A	156.5 A	141.5 A
TOTAL AMP....	148 A		
TOTAL AMP. (DEMAND):	112 A	**TOTAL AMP. (DEMAND) x 125%**	140.2 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)
F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

PANEL: RL5B

VOLTAGE: 208Y/120 3Ø | **FED FROM:** RL5A
MOUNTING: SURFACE | **MAIN TYPE:** MLO
ENCLOSURE: NEMA1 | **PHASE:** 3 | **TYPE:** 20-INCH WIDE
MAIN: 225 A | **WIRE:** 4 | **AIC:** 10 KAIC

LC Abbr	Load Served	Wire	Trip	Ckt No	Pole	A	B	C	Pole	Ckt No	Trip	Wire	Load Served	LC Abbr
R	CORRIDOR 500: REC	12	20 A	1	1	1.14 1.38			1	2	20 A	12	PREP RM 518: REC	R
R	CORRIDOR 500: REC	12	20 A	3	1		1.08 0.36		1	4	20 A	12	PREP RM 518: COUNTER REC	R
R	CORRIDOR 500: REC	12	20 A	5	1			1.14 1.00	1	6	20 A	12	PREP RRM 518: DISHWSHR (NOTE 7)	MS
R	TEAM AREA 513: REC	12	20 A	7	1	0.90 1.00			1	8	20 A	12	PREP RM 518: FRIDGE (NOTE 7)	MS
MS	BOYS RR 508: HD (NOTE 8)	12	20 A	9	1		1.00 1.50		1	10	20 A	12	RESOURCE RM 501: REC	R
MS	BOYS RR 508: HD (NOTE 8)	12	20 A	11	1			1.00 0.54	1	12	20 A	12	RESOURCE RM 501: COUNTER REC	R
MS	GIRLS RR 507: HD (NOTE 8)	12	20 A	13	1	1.00 0.70			1	14	15 A	12	EF-5.5 (NOTE 9)	V
MS	GIRLS RR 507: HD (NOTE 8)	12	20 A	15	1		1.00 0.70		1	16	15 A	12	EF-5.6 (NOTE 9)	V
R	RR 507/508: REC	12	20 A	17	1			0.72 0.53	1	18	15 A	12	EF-5.7 (NOTE 9)	V
MS	CORRIDOR 500: EWC (NOTE 7)	12	20 A	19	1	0.50 0.70			1	20	15 A	12	EF-5.8 (NOTE 9)	V
MS	CORRIDOR 500: EWC (NOTE 7)	12	20 A	21	1		0.50 1.18		1	22	15 A	12	EF-6.2 (NOTE 9)	V
MS	CORRIDOR 500: EWC (NOTE 7)	12	20 A	23	1			0.50 0.10	1	24	15 A	-	EF-5.1;EF-5.2;EF-5.3;EF-5.4 (NOTE 9)	V
MS	CORRIDOR 500: EWC (NOTE 7)	12	20 A	25	1	0.50 0.00			1	26	15 A	12	MOTORIZED DAMPERS	M
MS	MECH. CONTROLS	12	20 A	27	1		1.00 --		1	28	--	-	SPACE ONLY	
H	EWH 5.1 (NOTE 9)	-	20 A	29	1			0.75 --	1	30	--	-	SPACE ONLY	
Sp...	SPARE	-	20 A	31	1	0.00 --			1	32	--	-	SPACE ONLY	
Sp...	SPARE	-	20 A	33	1		0.00 --		1	34	--	-	SPACE ONLY	
Sp...	SPARE	-	20 A	35	1			0.00 --	1	36	--	-	SPACE ONLY	
Sp...	SPARE	-	20 A	37	1	0.00 --			1	38	--	-	SPACE ONLY	
Sp...	SPARE	-	20 A	39	1		0.00 --		1	40	--	-	SPACE ONLY	
Sp...	SPARE	-	20 A	41	1			0.00 --	1	42	--	-	SPACE ONLY	

	LOAD	Connected Load	Demand Factor	Estimated Demand
L	LIGHTS	0.00 kVA	0.00%	0.00 kVA
LE	LIGHTING - EXTERIOR	0.00 kVA	0.00%	0.00 kVA
H	HEATING	0.75 kVA	100.00%	0.75 kVA
C	COOLING	0.00 kVA	0.00%	0.00 kVA
V	VENTILATION	3.91 kVA	100.00%	3.91 kVA
M	MOTORS	0.00 kVA	0.00%	0.00 kVA
K	KITCHEN	0.00 kVA	0.00%	0.00 kVA
R	RECEPTACLES	9.56 kVA	100.00%	9.56 kVA
WH	WATER HEATER	0.00 kVA	0.00%	0.00 kVA
MS	MISC.	8.20 kVA	100.00%	8.20 kVA
S	Spare	0.00 kVA	0.00%	0.00 kVA
E	ELEVATOR	0.00 kVA	0.00%	0.00 kVA
LD	LAUNDRY	0.00 kVA	0.00%	0.00 kVA
EV	EV CHARGING	0.00 kVA	0.00%	0.00 kVA

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.
7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).
8. PROVIDE BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION. PROVISIONS FOR LOCKING SHALL REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED.
9. REFER TO MECHANICAL SCHEDULES / SHEET E801 FOR WIRE SIZE.

TOTAL KVA...	22.42 kVA	TOTAL PER PHASE: (CONNECTED)	
TOTAL KVA (DEMAND):	22.42 kVA	67.1 A	71.3 A	52.3 A
TOTAL AMP....	62 A		
TOTAL AMP. (DEMAND):	62 A	**TOTAL AMP. (DEMAND) x 125%**	77.8 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)
F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

PANEL: RL6A

VOLTAGE: 208Y/120 3Ø | **FED FROM:** RPD
MOUNTING: SURFACE | **MAIN TYPE:** MLO
ENCLOSURE: NEMA1 | **PHASE:** 3 | **TYPE:** 20-INCH WIDE
MAIN: 200 A | **WIRE:** 4 | **AIC:** 10 KAIC

LC Abbr	Load Served	Wire	Trip	Ckt No	Pole	A	B	C	Pole	Ckt No	Trip	Wire	Load Served	LC Abbr
R	STEM 603: REC	12	20 A	1	1	0.90 0.72			1	2	20 A	12	BAND 605: REC	R
R	STEM 603: REC	12	20 A	3	1		0.90 1.08		1	4	20 A	12	BAND 605: REC	R
R	STEM 603: REC	12	20 A	5	1			0.90 1.26	1	6	20 A	12	BAND 605: REC	R
R	CHORUS 604: REC	12	20 A	7	1	0.72 1.44			1	8	20 A	12	CORRIDOR 200: REC	R
R	CHORUS 604: REC	12	20 A	9	1		0.90 0.72		1	10	20 A	12	AREA 600 EXTERIOR: REC	R
R	AGRI LAB 606: REC	12	20 A	11	1			0.72 0.50	1	12	15 A	12	MOTORIZED DAMPERS	M
R	AGRI LAB 606: REC	12	20 A	13	1	1.08 0.20			1	14	15 A	12	MOTORIZED DAMPERS	M
R	AGRI LAB 606: REC	12	20 A	15	1		1.08 0.90		1	16	20 A	12	MAIN ELECTRICAL: REC	R
MS	LTG CONTROLS 'LCE'	12	20 A	17	1			0.36 0.18	1	18	20 A	6	HOTBOX	MS
MS	SITE SIGNAGE (NOTE 7)	6	20 A	19	1	0.50 0.18			1	20	15 A	6	HOTBOX	MS
MS	SITE SIGNAGE (NOTE 7)	6	20 A	21	1		0.50 0.18		1	22	20 A	6	HOTBOX	MS
MS	SITE SIGNAGE (NOTE 7)	6	20 A	23	1			0.50 0.36	1	24	20 A	12	MECH. CONTROLS	MS
MI...	MISC.	12	20 A	25	1	0.24 1.00			1	26	20 A	12	GH LTS/FANS/SHUTTERS (NOTE 7)	MS
Sp...	SPARE	-	20 A	27	1		0.00 0.77		2	28	20 A	12	GREENHOUSE WALL FAN (NOTE 7)	M
Sp...	SPARE	-	20 A	29	1			0.00 0.77		30				
Sp...	SPARE	-	20 A	31	1	0.00 0.77			2	32	20 A	12	GREENHOUSE WALL FAN (NOTE 7)	M
Sp...	SPARE	-	20 A	33	1		0.00 0.77			34				
Sp...	SPARE	-	20 A	35	1			0.00 1.32	1	36	20 A	12	GREENHOUSE HEATERS (NOTE 7)	H
Sp...	SPARE	-	20 A	37	1	0.00 0.50			1	38	20 A	12	GREENHOUSE SUMP PUMP (NOTE 7)	M
Sp...	SPARE	-	20 A	39	1		0.00 --		1	40			SPACE ONLY	
Sp...	SPARE	-	20 A	41	1			0.00 --	1	42	--	-	SPACE ONLY	

	LOAD	Connected Load	Demand Factor	Estimated Demand
L	LIGHTS	0.00 kVA	0.00%	0.00 kVA
LE	LIGHTING - EXTERIOR	0.00 kVA	0.00%	0.00 kVA
H	HEATING	1.32 kVA	100.00%	1.32 kVA
C	COOLING	0.00 kVA	0.00%	0.00 kVA
V	VENTILATION	0.00 kVA	0.00%	0.00 kVA
M	MOTORS	4.28 kVA	100.00%	4.28 kVA
K	KITCHEN	0.00 kVA	0.00%	0.00 kVA
R	RECEPTACLES	13.14 kVA	88.05%	11.57 kVA
WH	WATER HEATER	0.00 kVA	0.00%	0.00 kVA
MS	MISC.	4.18 kVA	100.00%	4.18 kVA
S	Spare	0.00 kVA	0.00%	0.00 kVA
E	ELEVATOR	0.00 kVA	0.00%	0.00 kVA
LD	LAUNDRY	0.00 kVA	0.00%	0.00 kVA
EV	EV CHARGING	0.00 kVA	0.00%	0.00 kVA

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.
7. PROVIDE BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION. PROVISIONS FOR LOCKING SHALL REMAIN IN PLACE WITHOUT THE LOCK INSTALLED.

TOTAL KVA...	22.92 kVA	TOTAL PER PHASE: (CONNECTED)	
TOTAL KVA (DEMAND):	21.35 kVA	69.9 A	66.2 A	57.3 A
TOTAL AMP....	64 A		
TOTAL AMP. (DEMAND):	59 A	**TOTAL AMP. (DEMAND) x 125%**	74.1 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)
F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

PANEL: RPD

VOLTAGE: 208Y/120 3Ø | **FED FROM:** T-RPD
MOUNTING: SURFACE | **MAIN TYPE:** MCB
ENCLOSURE: NEMA1 | **PHASE:** 3 | **TYPE:** I-LINE
MAIN: 500 A | **WIRE:** 4 | **AIC:** 10 KAIC

LC Abbr	Load Served	Wire	Trip	Ckt No	Pole	A	B	C	Pole	Ckt No	Trip	Wire	Load Served	LC Abbr
				1		8.25 32.13				2				
F	PANEL 'RL6A'	NOTE 7	200 A	3	3		7.80 31.95		3	4	400 A	NOTE 7	PANEL 'KP1A'	F
				5				6.87 32.99		6				
F	PANEL 'ML6A'	NOTE 7	150 A	7	3	4.48 --			1	8	--	-	SPACE ONLY	
				9			3.48 --		1	10	--	-	SPACE ONLY	
				11				4.35 --	1	12	--	-	SPACE ONLY	
	SPACE ONLY	-	--	13	1	-- --			1	14	--	-	SPACE ONLY	
	SPACE ONLY	-	--	15	1		-- --		1	16	--	-	SPACE ONLY	
	SPACE ONLY	-	--	17	1			-- --	1	18	--	-	SPACE ONLY	
	SPACE ONLY	-	--	19	1	-- --			1	20	--	-	SPACE ONLY	
	SPACE ONLY	-	--	21	1		-- --		1	22	--	-	SPACE ONLY	
	SPACE ONLY	-	--	23	1			-- --	1	24	--	-	SPACE ONLY	

	LOAD	Connected Load	Demand Factor	Estimated Demand
L	LIGHTS	0.00 kVA	0.00%	0.00 kVA
LE	LIGHTING - EXTERIOR	0.00 kVA	0.00%	0.00 kVA
H	HEATING	3.57 kVA	100.00%	3.57 kVA
C	COOLING	2.00 kVA	100.00%	2.00 kVA
V	VENTILATION	0.87 kVA	100.00%	0.87 kVA
M	MOTORS	10.85 kVA	100.00%	10.85 kVA
K	KITCHEN	78.25 kVA	65.00%	50.86 kVA
R	RECEPTACLES	18.36 kVA	77.23%	14.18 kVA
WH	WATER HEATER	2.20 kVA	100.00%	2.20 kVA
MS	MISC.	16.20 kVA	100.00%	16.20 kVA
S	Spare	0.00 kVA	0.00%	0.00 kVA
E	ELEVATOR	0.00 kVA	0.00%	0.00 kVA
LD	LAUNDRY	0.00 kVA	0.00%	0.00 kVA
EV	EV CHARGING	0.00 kVA	0.00%	0.00 kVA

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.
7. REFER TO RISER DIAGRAM' SHEET E-701 FOR WIRE SIZE.

TOTAL KVA...	132.30 kVA	TOTAL PER PHASE: (CONNECTED)	
TOTAL KVA (DEMAND):	100.73 kVA	375.1 A	360.2 A	369.7 A
TOTAL AMP....	367 A		
TOTAL AMP. (DEMAND):	280 A	**TOTAL AMP. (DEMAND) x 125%**	349.5 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)
F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

EVERY CIRCUIT SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE AN APPROVED DEGREE OF DETAIL THAT ALLOWS EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS THAT CONTAIN UNUSED OVERCURRENT DEVICES OR SWITCHES SHALL BE DESCRIBED ACCORDINGLY. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE, INSIDE OF, OR IN AN APPROVED LOCATION ADJACENT TO THE PANEL DOOR IN THE CASE OF A PANELBOARD AND AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD OR SWITCHGEAR. NO CIRCUIT SHALLBE DESCRIBED IN A MANNER THAT DEPENDS ON TRANSIENT CONDITIONS OF OCCUPANCY.

RL5A | RL5B | RL6A | RPD

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333 Fayetteville St, Ste 225
Raleigh, NC 27601
P: 919.573.6350
F: 919.573.6355
www.sfla.biz
sfl+a ARCHITECTS
MORGAN K. QUINTON
04-17-2025
Construction Documents
optima engineering
434 Fayetteville St, Suite 2450, Raleigh, NC 27601
Phone: 919-926-2200 - www.optimaengineering.com
North Carolina License Number C-0914

Lenoir County
EB Frink Middle School
405 North Charles Street
La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
0	9/12/24	CONSTRUCTION DOCS.
1	02/18/2025	BID SET /AGENCY COM.
2	04/17/2025	ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: JSD
CHECKED BY: MKG

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PANEL SCHEDULES

E-706

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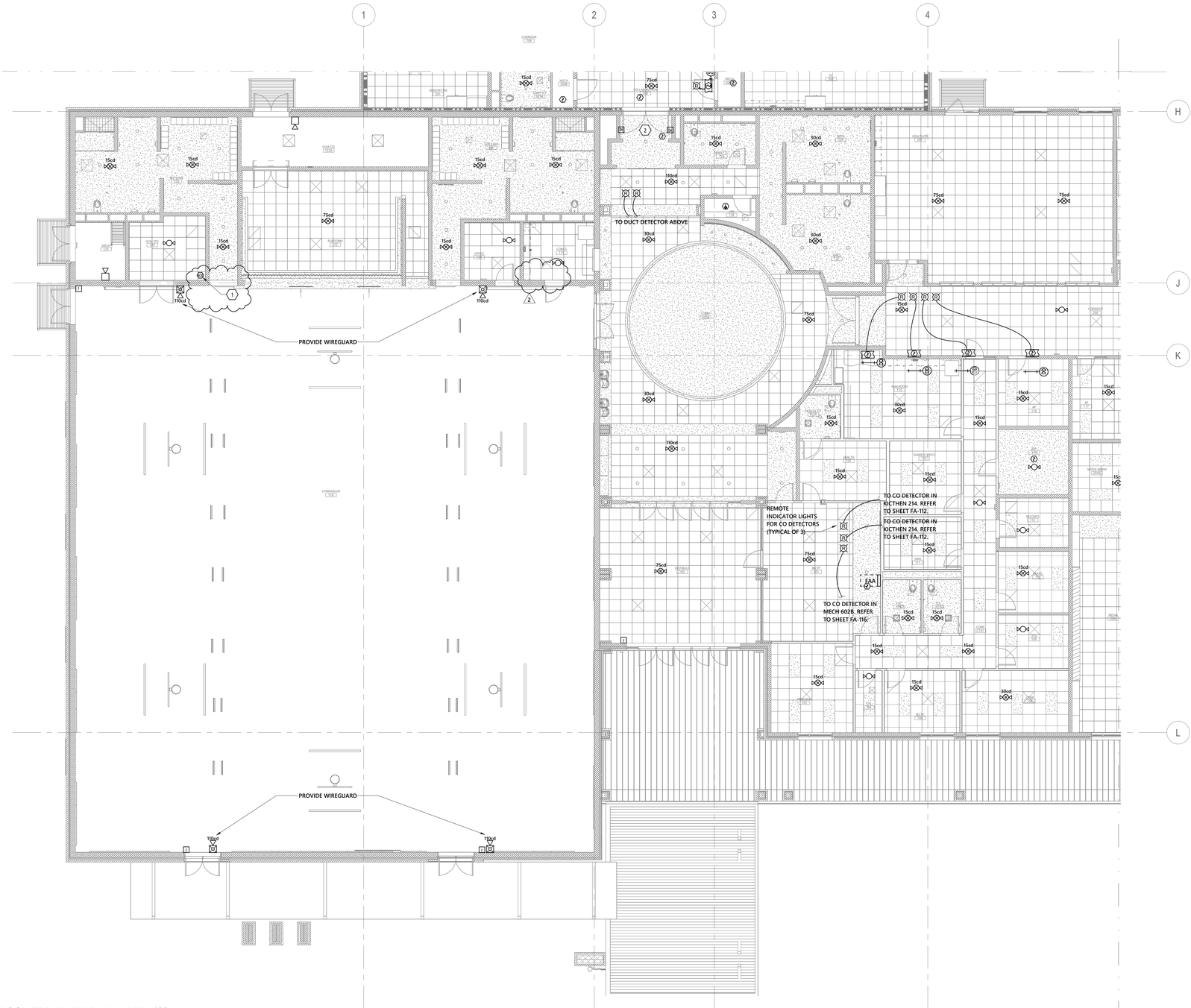
GENERAL NOTES - FIRE ALARM

A. REFER TO DRAWING FA-001 FOR SYMBOL LEGEND AND GENERAL NOTES.

KEYNOTES

1 PROVIDE RELAY TO SHUTDOWN GYMNASIUM SOUND SYSTEM UPON FIRE ALARM.

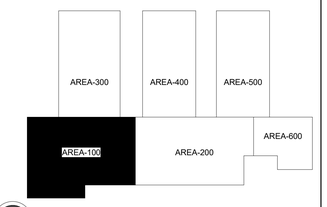
2 DOOR HOLDER TO RELEASE UPON PANIC BUTTON ACTIVATION OR FIRE ALARM ACTIVATION. PROVIDE SEPARATE RELAYS FOR EACH FUNCTION. FIRE ALARM SHALL NOT BE ACTIVATED WHEN PANIC BUTTON IS PRESSED.



1 FIRST FLOOR FIRE ALARM PLAN - AREA 100
1/8" = 1'-0"

WALL LEGEND	
SYMBOL	DESCRIPTION
	1 HR RATED (FIRE BARRIER)
	2 HOUR RATED WALL

KEYPLAN



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333 Fayetteville St, Ste 225
Raleigh, NC 27601
P: 919.573.6350
F: 919.573.6355
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Construction Documents

optima engineering
434 Fayetteville St, Suite 2450, Raleigh, NC 27601
Phone: 919-926-2200 - www.optimaengineering.com
North Carolina License Number C-0914

Lenoir County
EB Frink Middle School
405 North Charles Street
La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
0	9/12/24	CONSTRUCTION DOCS
1	02/18/2025	BID SET / AGENCY COM
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DRAWN BY: JSD
CHECKED BY: MKG

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FIRST FLOOR FIRE ALARM PLAN - AREA 100

FA-111

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GENERAL NOTES:

A. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT NETWORK OUTLET LOCATIONS.

B. COORDINATE LOCATIONS OF CEILING MOUNTED DEVICES (WIRELESS ACCESS POINTS, SPEAKERS, CABLE TRAY, ETC) WITH ALL OTHER TRADES (ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY, ETC).

C. ANY DIRECTION GIVEN IN THE FIELD THAT DEVIATES FROM THE CONSTRUCTION DOCUMENTS MUST BE DOCUMENTED AND VERIFIED WITH THE ENGINEER.

D. PROVIDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION.

E. IF A CONTRADICTION OF DIRECTION IS IDENTIFIED WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO FINALIZING BID OR INCLUDE THE HIGHER COST OPTION IN THEIR BID.

F. EACH 4" LOW VOLTAGE SITE CONDUIT SHALL BE PROVIDED WITH (1) 3" 3-CELL FABRIC MESH INNERDUCT.

G. ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED. WHERE CONDUITS ARE TO BE INSTALLED IN EXPOSED CEILINGS, CONDUITS SHALL BE INSTALLED TIGHT TO STRUCTURE AND PAINTED TO MATCH ADJACENT SURFACE.

H. NO SECTION OF LOW VOLTAGE CONDUIT SHALL CONTAIN MORE THAN (2) 90° BENDS, OR EQUIVALENT BETWEEN PULL POINTS. PROVIDE BOX SIZED PER NEC OR AS INDICATED.

I. NO SECTION OF LOW VOLTAGE CONDUIT SHALL BE LONGER THAN 100'-0" BETWEEN PULL POINTS. PROVIDE BOX SIZED PER NEC OR AS INDICATED.

J. ALL LOW VOLTAGE CONDUIT ENDS MUST BE REAMED AND FIT WITH A NON-CONDUCTIVE BUSHING.

K. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT CONDUIT ROUTING FOR TELECOMMUNICATIONS HORIZONTAL CABLING WITH STRUCTURED CABLING CONTRACTOR PRIOR TO INSTALLATION.

L. ALL 2" AND LARGER CONDUITS SHALL BE LABELED ON BOTH ENDS INDICATING DESTINATION LOCATION.

M. ALL JUNCTION BOXES MOUNTED TO EXTERIOR SIDE OF PERIMTER WALLS SHALL BE WEATHERPROOF AND GASKETED.

N. ELECTRICAL CONTRACTOR SHALL PROVIDE PULLSTRINGS (INTERIOR) OR MULE TAPE (EXTERIOR) FOR ALL CONDUITS TO BE UTILIZED FOR LOW VOLTAGE SYSTEMS.

O. ELECTRICAL CONTRACTOR SHALL MAINTAIN FIRE RATINGS OF WALLS, PARTITIONS, FLOORS OR CEILINGS PER NEC & IBC WHEN INSTALLING RECESSED BOXES. BOXES IN RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE NOT LESS THAN 24". THE HORIZONTAL DISTANCE MAY BE REDUCED, BUT SHALL NOT BE LESS THAN THE DEPTH OF THE WALL CAVITY, WHERE FILLED WITH CELLULOSE LOOSE FILL, ROCKWOOL OR SLAG MINERAL WOOL INSULATION OR WHERE PROTECTED BY LISTED PUTTY PADS OR OTHER LISTED MATERIALS/METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE LISTED PUTTY PADS AS REQUIRED. IN NO CASE SHALL THE AGGREGATE AREA OF OPENINGS EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL SPACE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LOW VOLTAGE CONTRACTOR TO VERIFY FINAL INSTALLATION WILL SATISFY CODE REQUIREMENTS.

P. INSTALLATION OF AC VOLTAGE CABLING IN LOW VOLTAGE PATHWAYS IS NOT ACCEPTABLE.

Q. CABLING SHALL PASS STRAIGHT THROUGH ANY PULL BOX. CHANGE OF DIRECTION IN A PULL BOX IS NOT ACCEPTABLE.

R. CONDUIT FILL RATIO SHALL NOT EXCEED 40% FILL.

S. NO CONDUIT BODIES OF ANY TYPE (LB,LR,LL,TEES, ETC) SHALL BE INSTALLED FOR SECURITY OR TECHNOLOGY CABLING.

T. FACEPLATES SHALL MATCH ADJACENT ELECTRICAL DEVICES. FINAL COLOR AND FINISH TO BE APPROVED BY ARCHITECT AND OWNER.

U. ALL FACEPLATES AND PATCH PANELS SHALL UTILIZE MODULAR JACKS.

V. ALL CATEGORY 6 AND CATEGORY 6A CABLING SHALL BE TERMINATED PER T568B STANDARD PINOUT.

W. ALL CABLING SHALL BE PLENUM RATED UNLESS OTHERWISE NOTED.

X. ALL CABLING, TERMINATIONS AND HOUSINGS ARE TO BE RATED FOR THE ENVIRONMENTS IN WHICH THEY ARE INSTALLED.

Y. NO SPLICING SHALL BE PERMITTED IN CATEGORY 6 OR CATEGORY 6A CABLING RUNS.

Z. CABLING SHALL NOT BE PAINTED. MANUFACTURERS WARRANTY MAY BE VOIDED IF PAINTED.

AA. DO NOT INSTALL BRUISED, KINKED, SCORED, DEFORMED, OR ABRADED CABLE. REMOVE AND DISCARD CABLE IF DAMAGED DURING INSTALLATION AND REPLACE IT WITH NEW CABLE.

BB. TERMINATE ALL CABLING ON DEDICATED SYSTEM PATCH PANEL (WIRELESS, DATA, SECURITY, ETC.) AS INDICATED ON EQUIPMENT RACK ELEVATIONS.

CC. PROVIDE OUTSIDE PLANT CABLING FOR IN/UNDERSLAB OR OUTDOOR APPLICATIONS. CONDUIT CONTAINING OUTSIDE PLANT CABLING SHALL BE EXTENDED TO LOCAL TELECOMMUNICATIONS ROOM. INDOOR/OUTDOOR CABLING IS AN ACCEPTABLE ALTERNATIVE. GENERAL CABLE: GENSPEED 10 UTP INDOOR/OUTDOOR 7141007 OR APPROVED EQUAL.

DD. ALL CABLING SHALL BE TERMINATED, TESTED, AND LABELED PER SPECIFICATIONS. ALL LABELING SHALL BE MACHINE PRINTED. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

EE. PROVIDE PATCH CORD FOR EACH TERMINATED PORT IN TELECOMMUNICATIONS ROOM. COORDINATE EXACT LENGTH WITH OWNER.

FF. PROVIDE EQUIPMENT CORD FOR EACH WIRELESS ACCESS POINT AND NETWORK CAMERA. COORDINATE EXACT LENGTH WITH OWNER.

GG. PROVIDE SURGE SUPPRESSION MODULE AT DEVICES UTILIZING IN/UNDERSLAB CONDUIT AND EXTERIOR WIRELESS ACCESS POINT AND CAMERA LOCATIONS. DITEK DTK-MRJPOES OR APPROVED EQUAL. REFER TO EXTERIOR NETWORK DEVICE DETAIL. PROVIDE 24 CHANNEL, RACK MOUNTED SURGE SUPPRESSION AT RACK LOCATION FOR NETWORK PROTECTION. DITEK: DTK-RM24NETS OR APPROVED EQUAL. PROVIDE PATCH CORDS AS REQUIRED. INSTALL SURGE SUPPRESSION DEVICES WITHIN 24" OF BUILDING ENTRY OR EQUIPMENT ENCLOSURE.

HH. ALL PENETRATIONS THROUGH RATED WALLS MUST BE FIRESTOPPED. UTILIZE MECHANICAL FIRE RATED PATHWAYS THROUGH WALLS (STI EZ-PATH OR APPROVED EQUAL). PROVIDE FIRESTOPPING FOR ANY CONDUIT STUB-UPS IN RATED WALLS AFTER CABLING HAS BEEN INSTALLED.

II. PROVIDE METALLIC J-HOOKS FOR CABLING IN ACCESSIBLE CEILING SPACES WITHOUT CABLE TRAY, BETWEEN CONDUITS, AND BETWEEN CONDUITS AND CABLE TRAY AT 3'-5' IRREGULAR INTERVALS. PANDUIT, COOPER B-LINE, NVENT CADDY, OR APPROVED EQUAL.

JJ. THE USE OF J-HOOKS IN EXPOSED CEILING AREAS OR INACCESSIBLE CEILING AREAS IS NOT ACCEPTABLE. PROVIDE CONDUIT IN THESE AREAS.

KK. NYLON CABLE TIE WRAPS ARE NOT ACCEPTABLE FOR BINDING OR SECURING CABLE BUNDLES. UTILIZE HOOK AND LOOP STRAPS TO SECURE CABLING IN TELECOMMUNICATIONS ROOM. STRAPS SHALL BE EVENLY SPACED THROUGHOUT THE DRESSED LENGTH AND PLENUM RATED WHERE APPLICABLE.

LL. PROVIDE (2) CATEGORY 6A CABLES TO EACH FIRE ALARM CONTROL PANEL FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. TERMINATE CABLES TO SURFACE-MOUNT BOX WITHING PANEL. EXTEND INCOMING ANALOG DEMARK TO LOCAL TELECOMMUNICATIONS ROOM AS REQUIRED. COORDINATE LOCATION AND REQUIREMENTS WITH FIRE ALARM CONTRACTOR.

MM. PROVIDE (1) CATEGORY 6A CABLE TO EACH EMERGENCY RESPONDER RADIO SYSTEM CONTROL PANEL FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. TERMINATE CABLES TO SURFACE-MOUNT BOX WITHING PANEL. COORDINATE LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

NN. PROVIDE (2) CATEGORY 6A CABLES TO EACH SECURITY ALARM PANEL FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. TERMINATE CABLES TO SURFACE-MOUNT BOX WITHING PANEL. EXTEND INCOMING ANALOG DEMARK TO LOCAL TELECOMMUNICATIONS ROOM AS REQUIRED. COORDINATE LOCATION AND REQUIREMENTS WITH SECURITY CONTRACTOR.

OO. PROVIDE (1) CATEGORY 6A CABLE TO EACH HVAC CONTROLLER (JACE) FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. COORDINATE LOCATION AND REQUIREMENTS WITH HVAC CONTRACTOR

PP. PROVIDE (1) CATEGORY 6A CABLE TO EACH LIGHTING CONTROL PANEL FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. COORDINATE LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

QQ. PROVIDE (1) CATEGORY 6A CABLE TO MAIN SWITCHBOARD FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. COORDINATE LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

RR. PROVIDE (1) CATEGORY 6A CABLE TO EACH AUTOMATIC TRANSFER SWITCH FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. COORDINATE LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

SS. PROVIDE (1) CATEGORY 6A CABLE TO EACH ELECTRIC VEHICLE (EV) CHARGER FROM LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK INTERFACE. COORDINATE LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

SYMBOLS:

SYMBOL	DESCRIPTION
◀ #	NETWORK OUTLET. STANDARD HEIGHT (+18" AFF). PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (2) CATEGORY 6A CABLES UNLESS OTHERWISE INDICATED BY SUBSCRIPT.
◀ #	NETWORK OUTLET. ELEVATED HEIGHT (+42" AFF, UNLESS OTHERWISE NOTED). PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (2) CATEGORY 6A CABLES UNLESS OTHERWISE INDICATED BY SUBSCRIPT.
◀ #	NETWORK OUTLET, ABOVE CEILING (MIN. +6" AFC). WHEN INSTALLED ABOVE HARD CEILING, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. WHEN INSTALLED IN ACCESSIBLE CEILING SPACE, PROVIDE ABOVE-CEILING BRACKET AND SURFACE BOX. REFER TO WIRELESS ACCESS POINT DETAILS. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) CATEGORY 6A CABLES UNLESS OTHERWISE INDICATED BY SUBSCRIPT.
◀W	NETWORK WALL-PHONE OUTLET. ELEVATED HEIGHT (+42" AFF). PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (1) CATEGORY 6A CABLE AND WALL-PHONE FACEPLATE WITH MOUNTING STUDS.
WAP	NETWORK OUTLET, CEILING. WHEN INSTALLED ABOVE HARD CEILING, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. WHEN INSTALLED IN ACCESSIBLE CEILING SPACE, PROVIDE ABOVE-CEILING BRACKET AND SURFACE BOX. REFER TO WIRELESS ACCESS POINT DETAILS. PROVIDE (2) CATEGORY 6A CABLES FOR EACH LOCATION. PROVIDE 6'-0" CATEGORY 6A EQUIPMENT CORD. WIRELESS ACCESS POINT DEVICE (EXTREME NETWORKS AP4000) SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED.
WAP	WIRELESS ACCESS POINT CONNECTION (WALL). PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. REFER TO WIRELESS ACCESS POINT DETAILS. PROVIDE (2) CATEGORY 6A CABLES FOR EACH LOCATION. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE 3'-0" EQUIPMENT CORD. WIRELESS ACCESS POINT DEVICE (EXTREME NETWORKS AP4000) SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED.
WAP EXT	WIRELESS ACCESS POINT CONNECTION (EXTERIOR). PROVIDE 12"x12"x6" DEEP JUNCTION BOX, 1" SLEEVE TO EXTERIOR AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (2) CATEGORY 6A CABLES FOR EACH LOCATION. PROVIDE SURGE PROTECTION AND 3'-0" EQUIPMENT CORD. WIRELESS ACCESS POINT DEVICE (EXTREME NETWORKS AP4000) SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED. REFER TO EXTERIOR NETWORK DEVICE DETAIL.
TV	STANDARD TV OUTLET. PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (2) CATEGORY 6A CABLES. REFER TO OUTLET DETAIL ON SHEET T-501.
AV1	AUDIO/VIDEO DISPLAY #1. PROVIDE BACKBOX, CONDUIT, (4) CATEGORY 6A CABLES, AND ADDITIONAL CABLING AS INDICATED ON DETAIL SHEET T-502.
AV2	AUDIO/VIDEO DISPLAY #2. PROVIDE BACKBOX, CONDUIT, (4) CATEGORY 6A CABLES, AND ADDITIONAL CABLING AS INDICATED ON DETAIL SHEET T-502.
AV3	AUDIO/VIDEO DISPLAY #3. PROVIDE BACKBOX, CONDUIT, (2) CATEGORY 6A CABLES, AND ADDITIONAL CABLING AS INDICATED ON DETAIL SHEET T-502.
FC #D/#V	FURNITURE CONNECTION. STANDARD HEIGHT (+18" AFF). PROVIDE LARGE CAPACITY JUNCTION BOX WITH LOW VOLTAGE DIVIDER (RACO 263/981) WITH 2" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE FOR NETWORK CABLING AND 0.75" CONDUIT FOR POWER. PROVIDE QUANTITY OF CATEGORY 6A CABLES AS INDICATED BY SUBSCRIPT. CABLING SHALL BE ROUTED TO EACH STATION AND TERMINATED IN MODULE FACEPLATE DESIGNED FOR FURNITURE SYSTEM. EXPOSED CABLING SHALL BE PROTECTED. COORDINATE WITH FURNITURE VENDOR.
	CONDUIT/SLEEVE. 4" UNLESS OTHERWISE NOTED.
	12" WIDE RUNWAY LADDER CABLE TRAY IN TELECOMMUNICATIONS ROOMS.
	WIRE MESH CABLE TRAY ABOVE ACCESSIBLE CEILINGS. 12" WIDE BY 4" DEEP, UON.
	42RU TELECOM EQUIPMENT CABINET WITH LOCAKABLE DOORS AND INTEGRAL VERTICAL WIRE MANAGEMENT.
	TELECOMMUNCATION TERMINAL BACKBOARD (TTB). PROVIDE 4' BY 8' SHEETS OF 3/4" FIRE-RATED A/C-GRADE PLYWOOD, MOUNTED VERTICALLY WITH BOTTOM EDGE 8" AFF. MOUNT WITH A-SIDE FACING OUTWARD FROM THE WALL. FIRE RATING STAMP MUST REMAIN VISIBLE. DO NOT PAINT.
X	KEY NOTE

FLOOR BOXES:

SYMBOL	DESCRIPTION
FB4 #	4-GANG MULTI-SERVICE FLOOR BOX. ELECTRICAL CONTRACTOR SHALL PROVIDE FLOOR BOX, COVER, CONDUITS, ELECTRICAL DEVICES AND ASSOCIATED MOUNTING PLATES FOR A COMPLETE INSTALLATION. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) 6A CABLES (UNLESS OTHERWISE NOTED BY SUBSCRIPT). PROVIDE (1) HDMI CABLE BETWEEN FLOORBOX AND CORRESPONDING AV BACKBOX WHERE APPLICABLE. LEGRAND: EVOLUTION EFB45S-OG OR APPROVED EQUAL.

SYMBOLS:

SYMBOL	DESCRIPTION
	NETWORK CAMERA (CEILING). WHEN INSTALLED IN HARD/OPEN CEILING, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. REFER TO CAMERA DETAIL (HARD/OPEN CEILING). PROVIDE (2) CATEGORY 6A CABLES AT EACH CAMERA LOCATION. WHEN INSTALLED IN ACCESSIBLE CEILING, PROVIDE ABOVE-CEILING BRACKET AND SURFACE BOX. REFER TO CAMERA DETAIL (ACCESSIBLE CEILING).
	NETWORK CAMERA (WALL). PROVIDE 2-GANG JUNCTION BOX AND 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (1) CATEGORY 6A CABLE FOR EACH CAMERA CONNECTION. REFER TO CAMERA DETAIL (WALL MOUNTED).
EXT	NETWORK CAMERA (EXTERIOR WALL). PROVIDE 12"x12"x6" DEEP JUNCTION BOX, 1" SLEEVE TO EXTERIOR AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (2) CATEGORY 6A CABLES FOR EACH CAMERA LOCATION. PROVIDE SURGE PROTECTION AND EQUIPMENT CORD. REFER TO EXTERIOR CAMERA DETAILS.
EXT	NETWORK CAMERA (EXTERIOR CEILING). PROVIDE 12"x12"x6" DEEP JUNCTION BOX, 1" SLEEVE TO EXTERIOR AND 1.25" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (2) CATEGORY 6A CABLES FOR EACH CAMERA LOCATION. PROVIDE SURGE PROTECTION AND EQUIPMENT CORD. REFER TO EXTERIOR CAMERA DETAILS.
CR	CARD READER. ROVIDE 1-GANG JUNCTION BOX AND 3/4" CONDUIT TO ACCESS CONTROL JUNCTION BOX ON SECURE SIDE OF DOOR. SECURITY CONTRACTOR SHALL PROVIDE DEVICE AND CABLING.
DC	DOOR CONTACT. PROVIDE 3/4" CONDUIT TO ACCESS CONTROL JUNCTION BOX ON SECURE SIDE OF DOOR. SECURITY CONTRACTOR SHALL PROVIDE DEVICE AND CABLING.
RX	REQUEST TO EXIT DEVICE/CONNECTION. PROVIDE 1-GANG JUNCTION BOX MOUNTED HORIZONTALLY AND 3/4" CONDUIT TO ACCESS CONTROL JUNCTION BOX ON SECURE SIDE OF DOOR. SECURITY CONTRACTOR SHALL PROVIDE DEVICE AND CABLING.
KP	KEYPAD. PROVIDE 1-GANG JUNCTION BOX AND 3/4" CONDUIT TO INTRUSION DETECTION CONTROL PANEL. SECURITY CONTRACTOR SHALL PROVIDE DEVICE AND CABLING.
ES	ELECTRIC STRIKE. PROVIDE 3/4" CONDUIT WITH PULL STRING IN DOOR FRAME TO ACCESS CONTROL JUNCTION BOX ON SECURE SIDE OF DOOR. DOOR HARDWARE CONTRACTOR SHALL PROVIDE DEVICE AND SECURITY CONTRACTOR SHALL PROVIDE CABLING.
EL	ELECTRIC LOCKSET. PROVIDE 3/4" CONDUIT WITH PULL STRING IN DOOR FRAME TO ACCESS CONTROL JUNCTION BOX ON SECURE SIDE OF DOOR. HARDWARE CONTRACTOR SHALL PROVIDE DEVICE AND SECURITY CONTRACTOR SHALL PROVIDE CABLINING.
PB	PANIC BUTTON, MOUNTED UNDER DESK, UON. PROVIDE 1-GANG JUNCTION BOX ON WALL ADJACENT TO DESK, MOUNTED AT 18" AFF, AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. SECURITY CONTRACTOR SHALL PROVIDE DEVICE, CABLING, AND REQUIRED CONNECTIONS TO SECURITY PANEL. PANIC BUTTON SHALL FORCE LOCKDOWN OF ACCESS CONTROLLED DOORS AS WELL AS SEND OUT ALERT TO MONITORING STATION.
S	25/70V ANALOG SPEAKER (CEILING). PROVIDE (1) SHIELDED 22/2AWG TO EACH SPEAKER, ROUTED THROUGH CABLE TRAY AND J-HOOKS. PROVIDE 10'-0" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING. WHEN INSTALLED IN HARD CEILING, PROVIDE SPEAKER BACKBOX AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. SEE DETAILS FOR ADDITIONAL INFORMATION.
S IP	NETWORK SPEAKER (CEILING). PROVIDE (1) CATEGORY 6 CABLE TO EACH SPEAKER FROM NEAREST TELECOM ROOM, ROUTED THROUGH CABLE TRAY AND J-HOOKS. WHEN INSTALLED IN ACCESSIBLE CEILING SPACE, PROVIDE ABOVE-CEILING BRANCKET AND SURFACE BOX. PROVIDE 10'-0" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING. WHEN INSTALLED IN HARD CEILING, PROVIDE SPEAKER BACKBOX AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. SEE DETAILS FOR ADDITIONAL INFORMATION.
S EXT	25/70V ANALOG SPEAKER (WALL). MOUNT 10' AFF UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG J-BOX WITH 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (1) SHIELDED 22/2AWG TO EACH SPEAKER, ROUTED THROUGH CABLE TRAY AND J-HOOKS. PROVIDE 10'-0" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING. SEE DETAILS FOR ADDITIONAL INFORMATION.
S EXT	HIGH-OUTPUT EXTERIOR ANALOG HORN SPEAKER. MOUNT 12' AFG UNLESS OTHERWISE NOTED. PROVIDE 8"x8"x6" DEEP JUNCTION BOX, 3/4" SLEEVE TO EXTERIOR AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE (1) SHIELDED 22/2AWG TO EACH SPEAKER, ROUTED THROUGH CABLE TRAY AND J-HOOKS. PROVIDE 10'-0" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING. EXTERIOR SPEAKERS MUST BE ON SEPARATE CIRCUIT FROM INTERIOR SPEAKERS. SEE DETAILS FOR ADDITIONAL INFORMATION.
IC	NETWORK INTERCOM CALL STATION. ELEVATED HEIGHT (+46" AFF). PROVIDE 1-GANG JUNCTION BOX AND 3/4" CONDUIT TO LOCAL ACCESSIBLE CEILING SPACE. PROVIDE (1) CATEGORY 6 CABLE FROM CALL STATION TO LOCAL NETWORK SPEAKER.
MD	DUAL-TECHNOLOGY MOTION DETECTOR. SECURITY CONTRACTOR SHALL PROVIDE DEVICE AND CABLING. WHERE INSTALLED IN WALL OR HARD CEILING, PROVIDE 1-GANG JUNCTION BOX AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
GB	GLASS BREAK DETECTOR. SECURITY CONTRACTOR SHALL PROVIDE DEVICE AND CABLING. WHERE INSTALLED IN WALL OR HARD CEILING, PROVIDE 1-GANG JUNCTION BOX AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
LS	GYM SOUND SYSTEM LOUD SPEAKER. PROVIDE 12AGG/2C CABLE TO EACH SPEAKER. REFER TO TI111 AND T-505 FOR ADDITIONAL INFORMATION.
	AUDIO OUTLET - RACEWAY ONLY. ELEVATED HEIGHT (HEIGHT AS INDICATED ON PLANS). PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1" CONDUIT TO ADUIO CABINET. PROVIDE BLANK COVER PLATE.

CONTRACTOR/INTEGRATOR RESPONSIBILITY MATRIX (a)

SYSTEM	EQUIPMENT FURNISHED BY	EQUIPMENT INSTALLED BY	RACEWAY FURNISHED & INSTALLED BY	POWER WIRING FURNISHED & INSTALLED BY	CONTROLS WIRING FURNISHED & INSTALLED BY	PROGRAMMING & INTEGRATION BY	DESIGNED BY
GROUNDING AND BONDING	ELECTRICAL	ELECTRICAL	ELECTRICAL	N/A	N/A	N/A	OPTIMA
CORRIDOR CABLE TRAYS	ELECTRICAL	ELECTRICAL	N/A	N/A	N/A	N/A	OPTIMA
TELECOM ROOM CABLE TRAYS	TELECOM	TELECOM	N/A	N/A	N/A	N/A	OPTIMA
STRUCTURED CABLING J-HOOKS	TELECOM	TELECOM	N/A	N/A	N/A	N/A	OPTIMA
SECURITY CABLING J-HOOKS	SECURITY	SECURITY	N/A	N/A	N/A	N/A	OPTIMA
PLYWOOD BACKBOARD	GENERAL	GENERAL	N/A	N/A	N/A	N/A	OPTIMA
EQUIPMENT RACKS & CABINETS	TELECOM	TELECOM	ELECTRICAL	ELECTRICAL	N/A	N/A	OPTIMA
STRUCTURED CABLING	TELECOM	TELECOM	ELECTRICAL	N/A	N/A	N/A	OPTIMA
STRUCTURED CABLING SURGE SUPPRESSION	TELECOM	TELECOM	ELECTRICAL	N/A	N/A	N/A	OPTIMA
WIRELESS ACCESS POINTS	OWNER	TELECOM	ELECTRICAL	N/A	N/A	OWNER	OWNER
WORKSTATIONS, PRINTERS & COPIERS	OWNER	OWNER	ELECTRICAL	ELECTRICAL	OWNER	OWNER	OWNER
VOIP TELEPHONE EQUIPMENT	OWNER	OWNER	ELECTRICAL	ELECTRICAL	OWNER	OWNER	OWNER
ACTIVE NETWORK ELECTRONICS	OWNER	OWNER	ELECTRICAL	ELECTRICAL	OWNER	OWNER	OWNER
ELECTRONIC SECURITY/SURVEILLANCE	SECURITY	SECURITY	ELECTRICAL	ELECTRICAL	SECURITY	SECURITY	OPTIMA
ELECTRONIC DOOR HARDWARE	HARDWARE	HARDWARE	ELECTRICAL	ELECTRICAL	HARDWARE	SECURITY	ARCHITECT
A/V DISPLAYS, PROJECTORS, SCREENS	OWNER	OWNER	ELECTRICAL	ELECTRICAL	OWNER	OWNER	OTHERS
INTERCOM/PA SYSTEM	AUDIO/VISUAL	AUDIO/VISUAL	ELECTRICAL	ELECTRICAL	AUDIO/VISUAL	AUDIO/VISUAL	OPTIMA
TELECOM SITE WORK (ON-SITE FOR INCOMING SERVICE)	SERVICE PROVIDER	SERVICE PROVIDER	ELECTRICAL	N/A	N/A	SERVICE PROVIDER	OPTIMA

NOTES:
A. CHART REFERENCE DEFINITIONS: "ELECTRICAL" = ELECTRICAL CONTRACTOR, "GENERAL" = GENERAL CONTRACTOR, "TELECOM" = TELECOM CONTRACTOR, "SECURITY" = SECURITY CONTRACTOR, "AUDIO/VISUAL" = AUDIO/VISUAL CONTRACTOR, "HARDWARE" = DOOR HARDWARE CONTRACTOR, "SERVICE PROVIDER" = LOCAL INTERNET SERVICE PROVIDER.
B. LOCAL INTERNET SERVICE PROVIDER: BRIGHTSPEED
C. OWNER-PREFERRED CONTRACTORS:
   a. AUDIO/VISUAL: NC SOUND

(a) MATRIX NOT INCLUSIVE OF ALL SYSTEMS TO BE PROVIDED. REFER TO PROJECT MANUAL AND DRAWINGS FOR ADDITIONAL INFORMATION. IF A CONTRADICTION OF DIRECTION IS IDENTIFIED WITHIN THE RESPONSIBILITY MATRIX, DRAWINGS AND/OR SPECIFICATIONS, CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO FINALIZING BID OR INCLUDE THE HIGHER COST OPTION IN THEIR BID. GENERAL CONTRACTOR IS ULTIMATELY RESPONSIBLE TO VERIFY ALL SCOPE IS COVERED.

SECURITY GENERAL NOTES

1. LENOIR COUNTY SCHOOLS CURRENTLY USES GALAXY CONTROL SYSTEMS FOR ELECTRONIC ACCESS CONTROL AND EXACQVISION FOR CAMERA MONITORING AND RECORDING. ALL COMPONENTS OF THE ESS FURNISHED UNDER THIS SCOPE MUST BE FULLY COMPATIBLE WITH THESE EXISTING SYSTEMS.
2. CONTRACTOR MUST REVIEW AND COORDINATE WITH THE DOOR HARDWARE INFORMATION SHOWN ON THE ARCHITECTURAL PLANS AND SPECIFICATIONS.
3. PROVIDE SURGE PROTECTION ON ALL CONDUCTORS SERVICING EXTERIOR DEVICES, INCLUDING CAMERAS AND CARD READERS. SURGE PROTECTION MUST BE WITHIN THREE FEET OF THE CONDUCTOR'S ENTRY POINT IN THE BUILDING PERIMETER AND BE GROUNDED TO BUILDING STEEL WITHIN TEN FEET.
4. ALL EQUIPMENT MUST BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ALL WALL-MOUNTED SECURITY HEADEND EQUIPMENT MUST BE MOUNTED TO FIRE-RATED TTB IN TELECOM ROOMS AS INDICATED ON DRAWINGS.
6. CAMERA LOCATIONS ARE NOT EXACT AND INDICATE GENERAL PLACEMENT ONLY.
7. CAMERA VIEWS SHALL BE COORDINATED WITH THE OWNER AND FIELD-VERIFIED PRIOR TO INSTALLATION. CONTRACTOR SHALL TEMPORARILY SUPPORT THE CAMERA TO CONFIRM THE LOCATION WILL PROVIDE THE DESIRED VIEW. RELOCATION OF CAMERAS NOT PROVIDING THE DESIRED VIEW SHALL BE AT THE CONTRACTOR'S EXPENSE.
8. PATHWAYS SHALL BE CONCEALED WHEREVER POSSIBLE.
9. ALL SECURITY DEVICES MUST BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.

TELECOMMUNICATIONS STANDARDS:

INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:

A. TIA-568.0-E (GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES)
B. TIA-568.1-E (COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING)
C. TIA-568.2-D (BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS)
D. TIA-568.3-E (OPTICAL FIBER CABLING AND COMPONENTS)
E. TIA-569-E (TELECOMMUNICATIONS PATHWAYS AND SPACES)
F. TIA-606-D (ADMINISTRATION STANDARD FOR TELECOMMUNCATIONS INFRASTRUCTURE)
G. TIA-607-D (TELECOMMUNICATIONS BONDING AND GROUNDING FOR CUSTOMER PREMISES)

CABLE SERVICE LOOP SCHEDULE

	SOURCE	DESTINATION	NOTES
BACKBONE - COPPER	20'-0"	20'-0"	
BACKBONE - FIBER	20'-0"	20'-0"	RACK MOUNTED ENCLOSURE
HORIZONTAL - COPPER - DATA	10'-0"	1'-6"	
HORIZONTAL - COPPER - WAP	10'-0"	20'-0"	
HORIZONTAL - COPPER - CAMERA	10'-0"	20'-0"	

NOTES:
A. UTILIZE FIGURE EIGHT CONFIGURATION FOR LARGE SERVICE LOOPS

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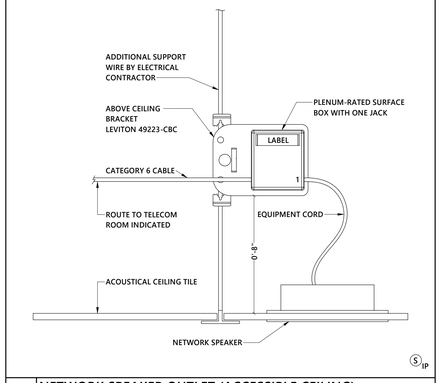
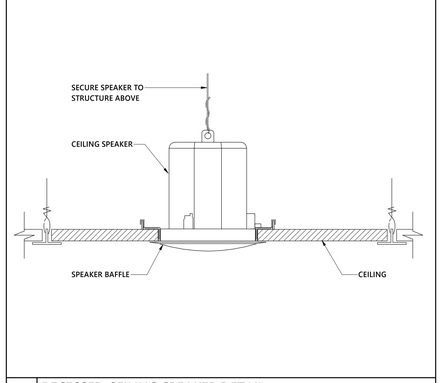
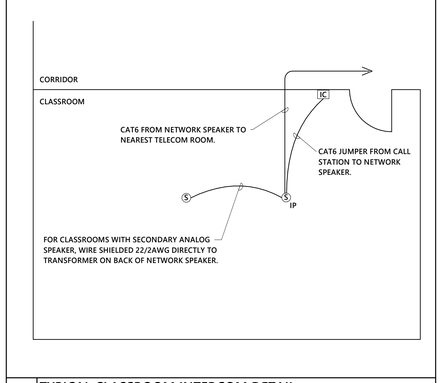


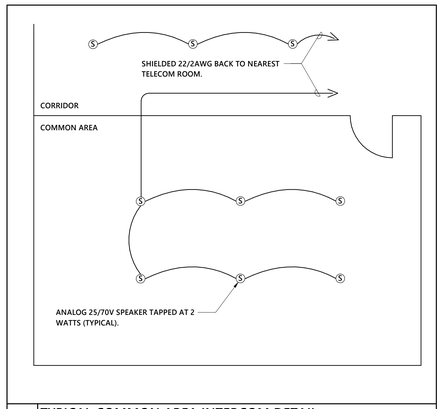
1 NETWORK SPEAKER OUTLET (ACCESSIBLE CEILING)
NOT TO SCALE



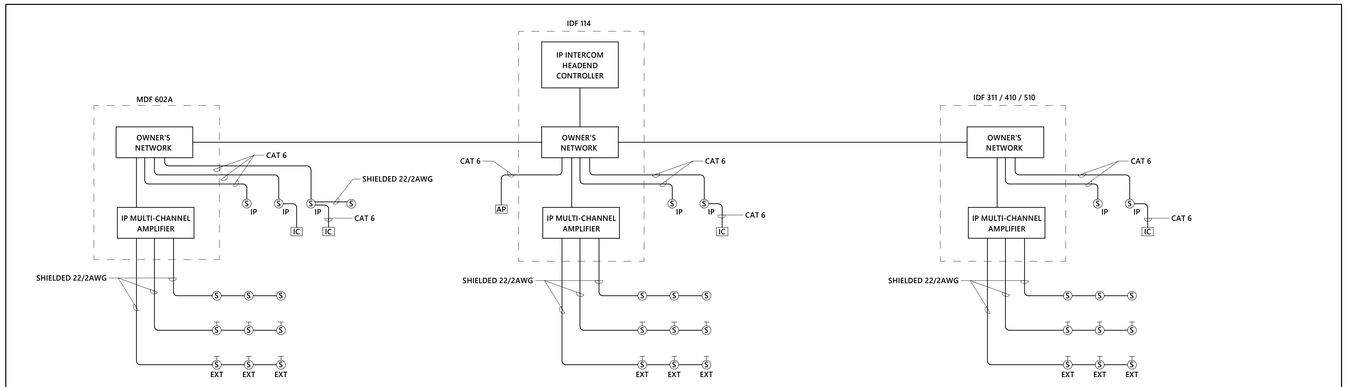
2 RECESSED CEILING SPEAKER DETAIL
NOT TO SCALE



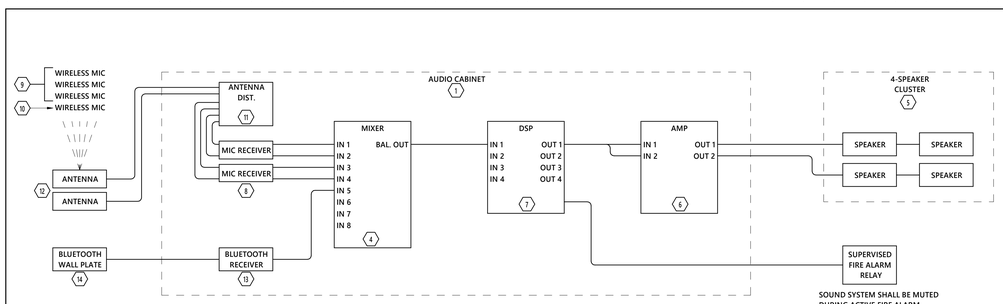
3 TYPICAL CLASSROOM INTERCOM DETAIL
NOT TO SCALE



4 TYPICAL COMMON AREA INTERCOM DETAIL
NOT TO SCALE



5 INTERCOM RISER DIRAGRAM
NOT TO SCALE



SYSTEM BASIS OF DESIGN. PROVIDE THE FOLLOWING OR APPROVED EQUAL COMPONENTS:

1. (1) EQUIPMENT CABINET: LOWELL LWR-2123 WITH LFD-21 DOOR
2. (1) POWER STRIP: LOWELL ACR-159-S
3. (1) STORAGE DRAWER: LOWELL UDEL-214
4. (1) 8-CHANNEL MIXER: BOGEN VMIX
5. (4) SPEAKERS: BOGEN AMT15
6. (1) AMPLIFIER: ASHLY XLR-3200
7. (1) DIGITAL SIGNALL PROCESSOR: ASHLY NE24.24M
8. (2) 2-CHANNEL WIRELESS MICROPHONE RECEIVER: SHURE SLXD24D
9. (3) HANDHELD WIRELESS MICROPHONE: SHURE SM58
10. (1) WIRELESS LAVALIER MICROPHONE: SHURE WL185 WITH SLXD1 BODY PACK
11. (1) ANTENNA DISTRIBUTION SYSTEM: SHURE UA845UWB
12. (2) REMOTE ANTENNA: SHURE UA8
13. (1) BLUETOOTH RECEIVER: RDL TX-TPR1A WITH TX-RA5 RACK-MOUNT PLATE
14. (1) BLUETOOTH INTERFACE (WALL-MOUNTED): RDL BT1A

6 GYM SOUND SYSTEM RISER DIAGRAM
NOT TO SCALE

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North Carolina License Number C-0914

Lenoir County

EB Frink Middle School

405 North Charles Street
La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
2	04/17/2025	ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: DWH
CHECKED BY: TMC

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TELECOM DETAILS

T-505

Sheet No. 7 of 34

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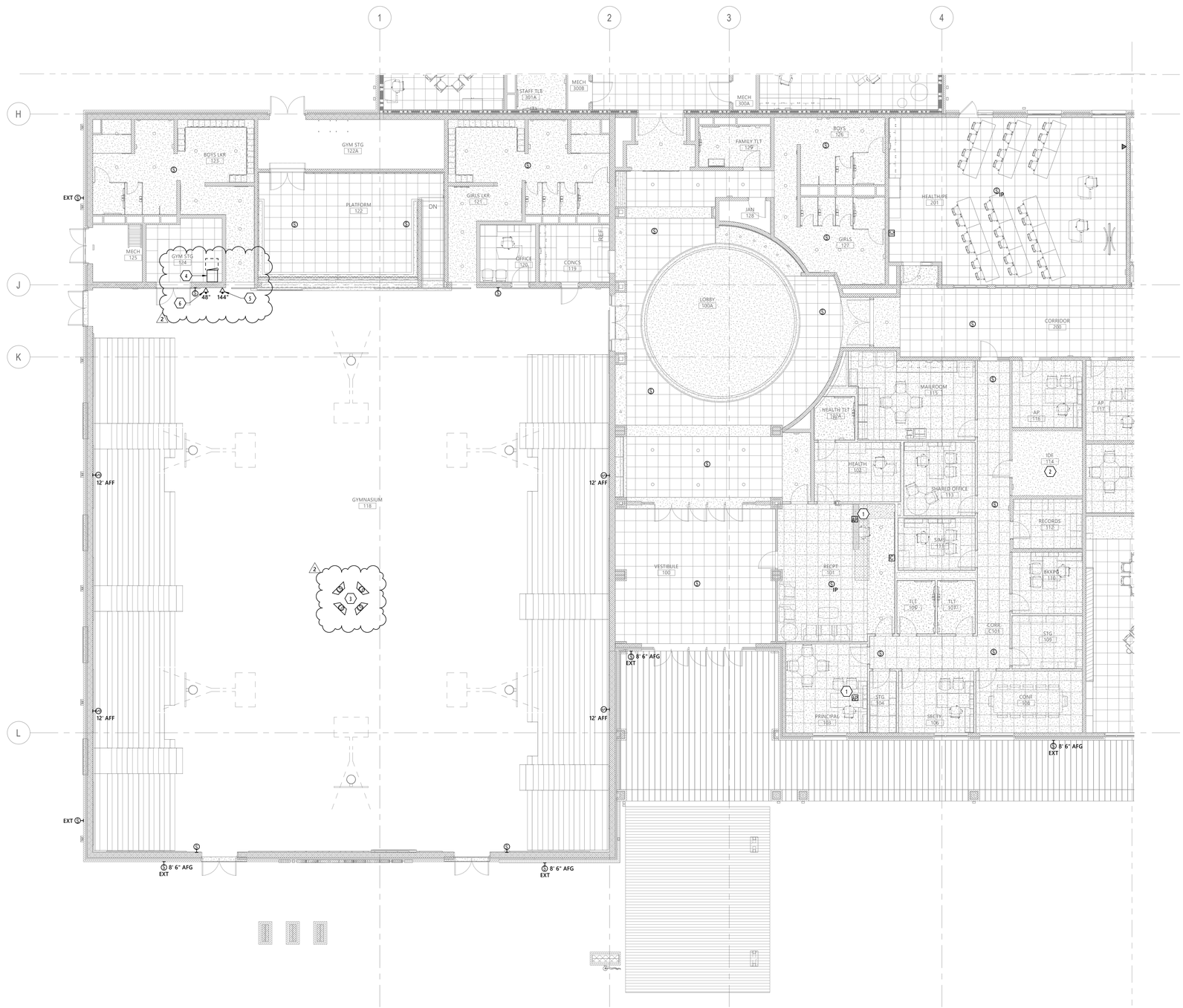

1 FIRST FLOOR INTERCOM PLAN - AREA 100
1/8" = 1'-0"

GENERAL NOTES:

A. ROUTE SPEAKER CABLING THROUGH CABLE TRAY AND J-HOOKS IN ACCESSIBLE CEILING AREAS.

B. ANALOG SPEAKERS IN COMMON AREAS CAN BE DAISY-CHAINED.

C. INSTALL INTERIOR WALL-MOUNTED SPEAKERS AT 10' AFF, UON.

D. INSTALL EXTERIOR WALL-MOUNTED SPEAKERS AT 12' AFG, UON.

KEY NOTES:

1. PROVIDE DESK-MOUNTED NETWORK INTERCOM ADMIN PHONE STATION. PHONE STATION WILL COMMUNICATE WITH INTERCOM SYSTEM VIA LAN CONNECTION.
2. LOCATE MAIN INTERCOM HEADEND EQUIPMENT IN IDF 114.
3. PROVIDE 4-SPEAKER CLUSTER FOR GYM SOUND SYSTEM. MOUNT TO BOTTOM OF BAR JOIST AT CENTER OF GYM. PROVIDE 1-1/4" CONDUIT FROM CLUSTER LOCATION BACK TO AUDIO CABINET IN GYM STORAGE ROOM 124 (KEYNOTE 4).
4. PROVIDE 21RU WALL-MOUNT LOCKABLE CABINET FOR GYM SOUND SYSTEM EQUIPMENT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.
5. PROVIDE ANTENNA WITH PROTECTIVE CAGE FOR WIRELESS MICROPHONES MOUNTED AT 12' AFF. PROVIDE 1" CONDUIT FROM JUNCTION BOX BACK TO AUDIO CABINET IN GYM STORAGE ROOM 124 (KEYNOTE 4).
6. PROVIDE BLUETOOTH RECEIVER WALL-PLATE UNIT MOUNTED AT 48" AFF. PROVIDE 1" CONDUIT FROM JUNCTION BOX BACK TO AUDIO CABINET IN GYM STORAGE ROOM 124 (KEYNOTE 4).

KEYPLAN

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EB Frink Middle School
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La Grange NC, 28551

ENERGY STAR PARTNER

No.	Date	Description
2	04/17/2025	ADDENDUM 3

ISSUE DATE: 02/18/2025
PROJECT #: 02303.000
DRAWN BY: DWH
CHECKED BY: TMC

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FIRST FLOOR INTERCOM PLAN - AREA 100

TI111

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EB Frink Middle School RFI Log

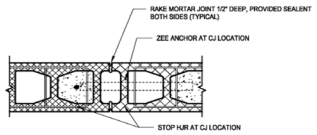
ITEM #	REQUEST DATE	REQUEST LOCATION Plans/Spec/Bid Manual	QUESTION	RESPONSE	RESPONDER	ANSWER DATE	TRADE/SCOPE	REQUEST BY
1		Plans / S-301	In reference to the Control joint on S-301 detail 14, shows CJ at columns but none are shown on the Slab Plan. Please provide a drawing showing CJ around Columns to insure the CJ are in the correct location.	Column diamonds have been added to the slab plan. Control joints have been shifted slightly to align with diamonds.	B&P	3/5/2025	BP0330	Metcon
2		Plans	There are a few floor drains located throughout the building but nowhere on the drawings show sloped concrete, please advise if the concrete slab needs to be sloped to the drain in a few areas.	There are not additional floor sloping at floor drains. For kitchen floor drains refer to details 1 and 2 on A-511. In restroom locations reduce floor sink dimension to 2'x2'.	SFL+a	3/5/2025	BP0330	Metcon
3		Plans	Hose bibbs are located in a few mechanical closets but aren't in all. Please confirm if hose bibbs are required in other mechanical closets.	Hose bibbs are located correctly and are not intended to be in all locations.	SFL+A	3/5/2025	BP2200	Metcon
4		Plans	Need extended column lines from north to south on Structural and Architectural	Column lines have been extended on structural and architectural plans	SFL+A	3/5/2025	All	Metcon
5		Plans	I- Beams in area 600,300,400,500 do not show TOS elevations	TOS elevations have been added to steel in areas 300, 400, 500, 600	SFL+A	3/5/2025	BP0510	Metcon
6		Plans	In lieu of the front miscellaneous steel angle on the perimeter roof edge / face of the building. We suggest using metal framing	If this is referring to detail 9/S-402 then it is acceptable to replace the L6x4x3/8 steel angle with a heavy gage cold form angle. The cold form angle must be sufficiently attached to the steel plate at the top of the wall.	SFL+A	3/5/2025	BP0510	Metcon
7		Plans / A-010	Wall type L8A6 shown on A-010. Clarify where this wall type is located.	Wall type has been removed.	SFL+a	2/26/2025	General	Metcon
8		Plans	No electrical floor box dimensions.	Electrical floor boxes have been dimensioned.	SfL+a	3/13/2025	Electrical/ Concrete	Metcon
9		Plans / A-411	In reference to detail 8 on A-411 the casework does not show a clear dimension off of the adjacent wall. Please provide	Dimensions to be provided in Addendum #1.	SfL+a	3/3/2025	BP1230	Metcon
10	2.25.2025	Plans & Specifications	Room Identification Signs Please provide a signage schedule for the required room identification signs detailed on A-702	Signage schedule will not be provided. Refer to specification for additional details.	SFL+a	3/5/2025	BP1014	AOA Signs
11	2.25.2025	Plans	Dimensional Letter Sign - Building Face - Building Name Please confirm the required copy: E.B. FRINK MIDDLE SCHOOL (18"). Please provide an exterior elevation drawing detailing the location of these building letters.	Drawings have been updated to indicate location and dimension. See specification for revisions. Revisions to be issued in forthcoming addendum.	SFL+a	3/5/2025	BP1014	AOA Signs
12	2.25.2025	Plans & Specifications	Primary Monumental Site Sign Spec: (48) Total Characters (12") (20) Total Characters (8") A-502: EB FRINK MIDDLE SCHOOL (18") 405 (8") (2 Says) Please confirm the required quantity of dimensional characters required on the Monumental Site Sign.	A-502 is correct. Specs to be revised.	SFL+a	3/5/2025	BP1014	AOA Signs
13	2.25.2025	Plans & Specifications	Interior Metal Letters Please confirm the required quantity of the following: MEDIA CENTER , BAND , AGRICULTURE , ART , CHORUS , BUSINESS , STEM , HEALTH , BOYS , GIRLS	Refer to specification 101400 Part 2.6.B.5. for sign quantities requested.	SFL+a	2/26/2025	BP1014	AOA Signs
14	2.25.2025	Scope	Warning Stencils Typically, Warning Stencils are NOT included in Signage Bid Packages. Are Warning Stencils included in Bid Package 1014 Signage?	Will be excluded from Signage bid package BP1014 in forthcoming Addendum	Metcon	2/26/2025	BP1014	AOA Signs
15	2.25.2025	Scope	Bid Package 1014 Signage: Scope F.3. "Subcontractor to furnish all exterior sign bases." Is the site sign masonry base (A-502) to be included in Bid Page 1014 Signage	Masonry exterior sign base will be excluded from Signage bid package BP1014 scope in forthcoming Addendum	Metcon	2/26/2025	BP1014	AOA Signs

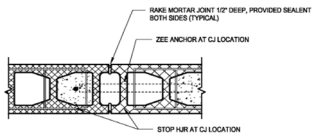
EB Frink Middle School RFI Log

16	2.25.2025	Scope	In the Bid Manual it has Roof panels as part of the Wall Panel Scope but does not call out any of these products or systems in the additional scope breakdown. Will it be acceptable to bid just the wall panels and soffit panels as our scope of work?	The metal roof system was moved to the BP0750 Turnkey Roofing scope and removed from the BP0740 Wall Panels scope. Wall and soffit panels remain in BP0 This will be updated in the forthcoming addendum.	Metcon	2.26.25	BP0740	Bonitz
17	2.25.2025	Scope	I noticed there is not a scope work for the wood athletic flooring in the bid documents. I'm assuming it's still being revised?	Yes, this will be included in the forthcoming Addendum	Metcon	2.25.2025	BP0962	Bonitz
18	2.25.2025	Specifications	The vented cove base is included in two spec sections-wood athletic flooring 096466 and resilient flooring 096500. Can you confirm it needs to be covered by the wood athletic flooring package?	Vented base to be covered by Wood Athletic Flooring package. Spec 096500 Section 2.4 to be removed for clarity in Addendum #1.	SFL+a	3/3/2025	BP0962	Bonitz
19	2.27.2025	Plans	Please provide EOS dimensions, Center of footing dimensions off column lines, Center of columns in reference to column lines.	Footing centerline and EOS dimensions have been added	SFL+a	3/5/2025	BP0330	Metcon
20	2.27.2025	Plans	Note on elevations on 6/A-411 & 5/A-412 at Science classrooms calls for resinous finish at the eyewash stations on both the walls and the floors. The finish plans, however, show the eyewash stations get LVT flooring. Please confirm which floor finish is correct.	Resinous flooring to be provided at eyewash stations, Finish Plans to be revised in Addendum #1.	SFL+a	3/3/2025	BP0960	Bonitz
21	2.27.2025	Bid From	Is there any consideration for the bond requirements to be help at the $300,000 limit for the signage package rather than $100,000? There is a good chance the $100,000 limit could prevent us from bring able to pursue this project.	This will be changed in Addendum #1 to be $300,000 or greater requires a 10% bid bond.	Metcon	3/5/2025	BP1014	AOA Signs
22	2.27.2025	Bid From	Additionally, can you clarify if the $160,000 worth of signage allowances have to be in our base bid or if they will be carried by you as the CM?	This allowance has been reduced to $10,000 to be carried by the CM and will be updated in the specifications in the forthcoming addendum.	Metcon	3/4/2025	BP1014	AOA Signs
23	3.3.2025	Plans	Finish schedule notes for RF1 and RF2 rubber stair finishes. These finishes are not in spec 096500 that indicates sizes, profiles desired. Please advise.	Spec 09 65 00 to be updated in Addendum #1.	SFL+a	3/3/2025	BP0960	Bonitz
24	3.3.2025	Plans	Gym Storage #122A is hatched with LVT1 on the finish plan. Finish tag notes for floor finish to be SC1. Please advise on correct floor finish.	Flooring in Gym Storage 122A to be Sealed Concrete, hatch pattern to be updated in Addendum #1.	SFL+a	3/3/2025	BP0960	Bonitz
25	3.3.2025	Plans	#122A also has a step up to platform 122. Note on A-111 says to reference A-432 for typ. stair details, but doesn't note which detail is used. Please advise if this step will receive a rubber stair tread/riser (16/A-432) or will be just a concrete filled pan (13/A-432).	Refer to detail 13/A-432 detail for concrete filled pan. Detail 16 has been removed.	SFL+a	3/5/2025	BP0960	Bonitz
26	3.3.2025	Plans	Please confirm stair 216 will need RF1 at the mid-landing and rubber treads/risers as noted in detail 16 on A-432.	Detail 16 has been removed. Refer to detail 13 for typical detail. Sealed concrete.	SFL+a	3/5/2025	BP0960	Bonitz
27	3.3.2025	Scope	Neither specifications nor scope of work details what type of floor protection is desired at the carpet/resilient/epoxy flooring. Should we price Ram board throughout?	Yes, this will be included in scope packages BP0960 Resilient Flooring & Carpet and BP0967 Epoxy Flooring in the forthcoming Addendum	Metcon	3/3/2025	BP0960	Bonitz
				END ADDENDUM 1				
4	2.27.2025	Plans	Need extended column lines from north to south on Structural and Architectural	Column lines have been extended on structural and architectural plans	SFL+A	3/5/2025	All	Metcon
5	2.27.2025	Plans	I- Beams in area 600,300,400,500 do not show TOS elevations	TOS elevations have been added to steel in areas 300, 400, 500, 600	SFL+A	3/5/2025	BP0510	Metcon
6	2.27.2025	Plans	In lieu of the front miscellaneous steel angle on the perimeter roof edge / face of the building. We suggest using metal framing	If this is referring to detail 9/S-402 then it is acceptable to replace the L6x4x3/8 steel angle with a heavy gage cold form angle. The cold form angle must be sufficiently attached to the steel plate at the top of the wall.	SFL+A	3/5/2025	BP0510	Metcon
8	2.27.2025	Plans	No electrical floor box dimensions.	Electrical floor boxes have been dimensioned.	SfL+a	3/13/2025	Electrical/ Concrete	Metcon
19	2.27.2025	Plans	Please provide EOS dimensions, Center of footing dimensions off column lines, Center of columns in reference to column lines.	Footing centerline and EOS dimensions have been added	SFL+a	3/5/2025	BP0330	Metcon

EB Frink Middle School RFI Log

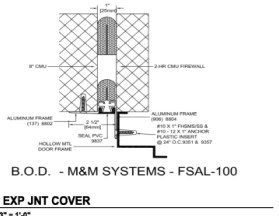
28	3.4.2025	Drawings	In reference to detail 6 S-302 "Detail At Low Concrete Wall" it shows CMU below grade with a concrete beam on top. We suggest the entire wall be concrete from a constructability stand point.	The entire wall has been changed to concrete.	SFL+a	3.20.25	BP0330	Metcon
29	3.4.2025	Drawings	In reference to the bearing plate schedule, bearing plates do not show any nelson studs the drawings do show anchor rods in the "Beam Bearing Detail" is this correct? We suggest Nelson studs for CMU bearing.	We do not want to use nelson studs for these bearing plates because we need to allow form some slight movement caused by thermal expansion.	SFL+a	3.20.25	BP0510	Metcon
30	3.5.2025	Drawings	In reference to detail 17 on A-432, the CMU wall and top of footing needs fluid applied water proofing to alleviate water intrusion.	We do not see this as a concern for water intrusion. Install wall as shown with vapor barriers as indicated.	SFL+a	3/13/2025	BP0714	Metcon
31	3.5.2025	Drawings	Exterior Painting RFI: Based on Specs: 09.90.00, Drawings A201-A211 Are BRK 1 -2, FMP 1-4, & FMS-1 callouts manufactured or do all of these callouts need to be painted?	All exterior finishes are to be manufactured finish. Not painted in field unless noted otherwise for example touch ups as required by specs.	SFL+a	3/13/2025	BP0990	That 1 Painter
32	3.5.2025	Drawings	Exterior Painting RFI: Based on Specs: 09.90.00, Drawings A201-A211 Is there any exterior painting?	No. There is no exterior paint. All MTL panels will have shop applied finishes. **REVISED IN ADDENDUM 3.**	SFL+a	3/13/2025	BP0990	That 1 Painter
33	3.5.2025	Drawings	Ceiling Painting: (A-514 - 516) The blank spaces in the RCP plans, are those to be painted as well?	Question is unclear. If the question is regarding areas that are exposed to structure on the RCPs, refer to general note 3 on the RCP legend that states all exposed structure to be painted. If the question is regarding a ceiling detail found on the sheets referenced in the RFI, please clarify.	SFL+a	3/13/2025	BP0990	That 1 Painter
34	3.5.2025	Drawings	Confirming interior scope to be Walls, Ceilings, Trim & Doors.	Refer to Paintings & Coatings Scope BP0990 Section F. for project specific scope requirements	Metcon	3/13/2025	BP0990	That 1 Painter
35	3.6.2025	Scope	For both the waterproofing and masonry scopes, under the list of Scope of Work Specifications, both scopes have section 07 95 13 listed for expansion joint cover assemblies. Is this double covered? If so who owns it?	Both scopes have been clarified to confirm the expansion joint covers are to be included in the Dampproofing, Waterproofing, Fireproofing & Joint Protection Scope #BP0710 and NOT the Turnkey Masonry Scope #BO0420. These revisions are included in the forthcoming Addendum 2.	Metcon	3/20/2025	BP0400	Southeastern Contracting
40	3.6.2025	Drawings	I can't find any expansion joints larger than 1" on the drawings, and these would not get metal covers. Can you confirm that there are no expansion joints on the project that would require metal covers?	This is correct.	SFL+a	3/20/2025	BP0400	Southeastern Contracting
36	3.6.2025	Drawings	Regarding detail 1/a502, what is the top of wall here? This is not shown on the grading plan.	Refer to detail 1/A-502 for elevation above finish grade. Signs approximate location is indicated on page C3.1 by note 16. Contractor to coordinate exact location in field with architect. Coordinate power as indicated on E-010.	SFL+a	3/13/2025	BP0400	Southeastern Contracting
37	3.6.2025	Scope	Who is responsible for drill and epoxy dowels at thickened slab per 9/s301?	Masonry subcontractor to furnish and install dowels at thickened slabs. This wall be clarified in the Masonry Scope BP0420 to be updated in the forthcoming Addendum #2.	Metcon	3/13/2025	BP0400	Southeastern Contracting
38	3.6.2025	Drawings	Reference detail 1/a501. SEC is requesting to use 3 inch Rigid insulation below FF on entire project with grout fill and Dampproofing in place of the spray foam noted on the drawings for constructability purposes. Using Rigid will ensure the cavity between brick veneer ledge and CMU is full and dry before the veneer is constructed at a later date. This is typical on most jobs to use this method. Water always poses a problem with spraying the foam later. The CMU has to be dry and able to receive the spray foam, please advise.	Install as drawn. This is not an acceptable alternate. Coordinate sequence with other subs. Metcon to coordinate.	SFL+a	3.20.25	BP0400	Southeastern Contracting
39	3.6.2025	Specifications	In the specifications division 1 there are allowances given for the two brick colors, but in division 4 they have specified what those two brick colors are. Should we get pricing from the vendor or just use the allowances?	Contact the vendor	SFL+a	3.20.25	BP0400	Southeastern Contracting
41	3.7.25	Drawings	Please provide dimensions for bollards off building face	Bollards are dimensioned.	SFL+a	4/2/2025	BP0510	Metcon
42	3.11.2025	Bid Docs	Do the signatures on the sealed bid forms have to be original.	Yes	Metcon	3/13/2025	BP2100	S&S Sprinkler
43	3.11.2025	Bid Docs	What is the MWBE Goal percentage for this project?	20%	Metcon	3/13/2025	BP3290	Southern Garden

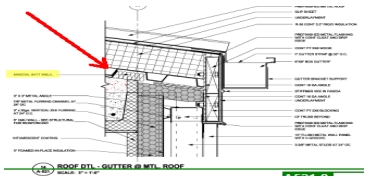
44	3.11.2025	Bid Docs	What are LD's...Retainage...start and completion dates?	Please see Bid Manual for information regarding LD's. Projected Start Date is 7.14.2025 and completion is 12.15.2026 but subject to change.	Metcon	3/13/2025	BP3100	Hine Sitework
45	3.11.2025	Bid Manual	Can you clarify bid date again?	Bid Date is April 24, 2025	Metcon	3/13/2025	BP0400	Brody Contractors
46	3.11.2025	Scope	Will there be a composite cleanup crew requirement?	Please reference your scope of work	Metcon	3/13/2025	BP0400	Brody Contractors
47	3.11.2025	Bid Manual	What will the sub-contract language be regarding escalation and tariff's?	The language will be similar to the following. The sub is responsible for all laws, tariffs and taxes in effect at the time of bid. Laws, and tariffs enacted after shall be the responsibility of the owner.	Metcon	3/13/2025	BP2100	S&S Sprinkler
48	3.11.2025	Bid Manual	What is the best way to provide bid documents to interested HUB bidders? Do you have a common link that we can issue when we solicit them?	We do not, You can add them to the bid invite via building connected as a bid invite. This is to assure they receive all up to date information. You can also gain access though metcons website in or plan room.	Metcon	3/13/2025	NA	NA
49	3.13.2025	Drawings	Details 3 & 4/A-311 appear to show spray foam insulation at the underside of the hollow core planks. The same spray foam is not shown on other HC plank details. Please confirm requirements of spray foam insulation at underside of hollow core planks.	This is not spray foam. This is the bottom side of the hollow core in the distance due to the slope of the planks.	SFL+a	3/13/2025	N/A	Metcon
50	3.13.2025	Drawings	Door 607 is not shown in the Door Schedule on A/601. Please update.	Revision made. See revised drawings	SFL+a	3/13/2025		Metcon
51	3.14.2025	Drawings	Please provide the BOS elevation for the 30X173 located above the stage for bearing elevation	Bottom of steel elevation has been added to detail 5/S-122	SFL+a	3/14/2025	BP0512	Metcon
52	3.17.2025	Drawings	Please provide cut detail on the Roof Framing Plan-Area 200 at column line J between intersecting column line 5 and 8 at the W beams.	A detail for this section cut has been added to the revised drawings. See new detail 15/S-402	SFL+a	3/17/2025	BP0513	Metcon
53	3.18.25	Drawings	Please provide a detail where brick meets metal panel wall at south at canopy column and at front entrance	RFI not clear on detail requested.	SFL+a	4/16/2025	BP0420	JB Overman Masonry
54	3.18.2024	Scope	Bid package #0420 Turnkey Masonry Scope Item #34a - states that "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". Our interpretation is that the masonry scope #0420 is to include providing **block outs only** for doors/frames, windows/frames, louvers/frames, etc. and for the grouting of the bolted hollow metal frames. The installation of hollow metal bolted frames, aluminum frames, louvers, etc. will be a part of other scopes of work (bid packages). Please confirm that our interpretation is correct.	The scopes have been updated to clarify that the HM frames are to be installed by the subcontractor that provides the wall. HM frames in masonry will be installed in scope BP0420. HM frames installed in framed walls are installed by the subcontractor installing the framed walls. Grouting of all HM frames is part of BP0420. This will be clarified in the forthcoming Addendum f2.	Metcon	3.20.25	BP0420	JB Overman Masonry
55	3.18.2024	Scope	Please confirm the HM Frames required by code are the same quantity as indicated on the door schedule shown on Sheet A-601.	That is correct.	Metcon	3.20.25	BP0420	JB Overman Masonry
56	3.20.25	Drawings	Sheet A-102 – This sheet indicates control joint locations using a "CJ" abbreviation with an arrow pointing to a red line. There are many locations that just provide a red line. Should these locations be considered the same as the locations that include the "CJ" abbreviation and arrow?	Control joint locations have been clarified. All joints are shown with a line and a "CJ" label with an arrow in Addendum 3.	SFL+a	4/2/2025	BP0421	JB Overman Masonry
57	3.20.25	Drawings	Sheet A-010 – Detail 2/A-010 – In regard to the Zee Anchors (rigid partition anchors), we concur with using zee anchors at the corners and tee's and this is in agreement with Specification 04 20 00 Section 3.3 Installation:K. They are also shown to occur at straight wall (butt) control joint locations (see snippet). **Is this correct?** Additional information pertaining to this question is as follows: Specification 04 20 00 Section 3.3 Installation:P:2&3 - this narrative contradicts the aforementioned (butt) control joint details by stating the following: (2)"Do not continue horizontal joint reinforcement through expansion joints" (the strap seems to contradict the this break in reinforcement) . (3) "Install preformed control and expansion joint device in continuous lengths. These preformed devices are not shown in the detail and the zee/strap/partition anchors would interfere with the installation of these devices. Specification 04 20 00 Section 3.3 Installation:K. – only calls out the Zee Anchors (rigid partition/strap anchors) at "Reinforced joint corners and intersections with ... anchors 16 inches OC." 	The Zee anchor on detail 2/A-010 Is correct. As is the spec. The Detail coordinating with sec section 3.3 P - 2&3, the Zee is for lateral stability only and is not horizontal joint reinforcing. Build as detailed.	SFL+a	3.20.25	BP0422	JB Overman Masonry

58	3.20.25	Drawings	Sheets A111 thru A116 – Bullnose CMU outside corners are indicated with small black dot/circles placed directly at the outside corners that require this condition. This is per the floor plan legend shown on each sheet. There are many CMU outside corners that are not marked with this dot. Do all of the CMU outside corners receive the bullnose condition or does the bullnose condition only occur where these dot symbols are shown?	Only where dots occur. We will complete an internal review and provide revisions if needed.	SFL+a	3.20.25	BP0423	JB Overman Masonry
				END ADDENDUM 2				
40	3.6.2025	Drawings	I can't find any expansion joints larger than 1" on the drawings, and these would not get metal covers. Can you confirm that there are no expansion joints on the project that would require metal covers?	This is correct.	SFL+a	3/20/2025	BP0400	Southeastern Contracting
41	3.7.25	Drawings	Please provide dimensions for bollards off building face	Bollards are dimensioned.	SFL+a	4/2/2025	BP0510	Metcon
53	3.18.25	Drawings	Please provide a detail where brick meets metal panel wall at south at canopy column and at front entrance	RFI not clear on detail requested.	SFL+a	4/16/2025	BP0420	JB Overman Masonry
56	3.20.25	Drawings	Sheet A-102 – This sheet indicates control joint locations using a "CJ" abbreviation with an arrow pointing to a red line. There are many locations that just provide a red line. Should these locations be considered the same as the locations that include the "CJ" abbreviation and arrow?	Control joint locations have been clarified. All joints are shown with a line and a "CJ" label with an arrow in Addendum 3.	SFL+a	4/2/2025	BP0421	JB Overman Masonry
57	3.20.25	Drawings	Sheet A-010 – Detail 2/A-010 – In regard to the Zee Anchors (rigid partition anchors), we concur with using zee anchors at the corners and tee's and this is in agreement with Specification 04 20 00 Section 3.3 Installation:K. They are also shown to occur at straight wall (butt) control joint locations (see snippet). **Is this correct?** Additional information pertaining to this question is as follows: Specification 04 20 00 Section 3.3 Installation:P:2&3 - this narrative contradicts the aforementioned (butt) control joint details by stating the following: (2)"Do not continue horizontal joint reinforcement through expansion joints" (the strap seems to contradict the this break in reinforcement) . (3) "Install preformed control and expansion joint device in continuous lengths. These preformed devices are not shown in the detail and the zee/strap/partition anchors would interfere with the installation of these devices. Specification 04 20 00 Section 3.3 Installation:K. – only calls out the Zee Anchors (rigid partition/strap anchors) at "Reinforced joint corners and intersections with … anchors 16 inches OC."  	The Zee anchor on detail 2/A-010 Is correct. As is the spec. The Detail coordinating with sec section 3.3 P - 2&3, the Zee is for lateral stability only and is not horizontal joint reinforcing. Build as detailed.	SFL+a	3.20.25	BP0422	JB Overman Masonry
59	3.21.25	Scope	Will if the theatrical lighting will bid direct to the EC's or is this one built with bid packages that I could bid turnkey with theatrical rigging, track, curtains, performance lighting controls, performance lighting fixtures ?	Refer to bid package BP1611 for stage equipment scope.	Metcon	3/24/2025	BP1161	Imagine Design & Production Services
60	3.24.25	Scope	Bid Package 0710 scope item 9 says they own top of wall fire safing and item 11 refers to a list of joint protection items including line H tops of walls. But in bid package 0420 item 41-J it says the mason owns compressible filler at top of wall. Please refer to detail 3/a010 which shows the joint protection at the top of masonry walls. Per the 0710 scope they would own all of this, correct?	Correct. All top-of-wall fillers, fire safing, caulk, etc. is by BP0710. This will be clarified in the forthcoming addendum.	Metcon	3/27/2025	BP0710	Southeastern Contracting
61	3.24.25	Scope	Bid Package 0420 scope item 41-d still says the mason owns expansion joint covers, even though elsewhere in this addendum this requirement has been deleted. Please confirm.	This will be clarified and removed from this bid package in the next addendum.	Metcon	3/27/2025	BP0420	Southeastern Contracting
62	3.24.25	Scope	Bid Package 0420 scope item 56 has now split the spray foam scope between the mason and the metal wall panel contractors. This is introducing the possibility of there being two different spray foam contractors using two different materials on the same job, which would be no bueno. I cannot strongly enough recommend that all spray foam for this project be in one companies scope, please reconsider.	Scopes revised in forthocming addendum to indicate all spray foam insulation to be provided in BP0420.	Metcon	3/26/2025	BP0420	Southeastern Contracting

63	3.24.25	Drawings	RFI answer 36 mistakes the referenced detail for the monument sign. The question, and the detail referenced, are about the screen wall. Please provide top of wall for the screen wall.	Top of CMU wall is 7'-4". Spot elevation added to detail 1/A-502.	SFL+a	4/7/2025	BP400	Southeastern Contracting
64	3.24.25	Scope	BP 1140 scope of work calls for FSEC to provide spec sections 11 21 73.10 Commercial Laundry Equipment and 11 30 13 Residential Appliances. We are not a residential appliance dealer, or a commercial laundry dealer and it is atypical for the FSEC to provide these items. Can both specification sections be moved into the BP 1020 Interior Specialties scope of work?	The residential appliances and commercial laundry equipment have been removed from the BP1140.	Metcon	3/27/2025	BP1140	11400
65	3.24.25	Drawings	Please confirm interwiring of the following items will be by the EC per the FS-004 and E-501 drawings? Between hoods/fans/fire system, walk-in refrigeration components, disposers, and dishmachine components. Disconnects are also to be provided by EC per E-501 drawing notes.	Confirmed, the interwiring shall be by the EC for hoods/fans/fire system, walk-in refrigerator, disposers, and dishmachine per FS & E drawings. Disconnects shall be provided by EC per E drawings. All disconnect sizes, fuse sizes and wire sizes shall be coordinated with equipment submittals prior to ordering.	SFL+a	3/28/2025	BP1140	11400
66	3.24.25	Scope	BP 1140 scope of work line 17 states FSEC is to provide stainless steel guide rails. None are indicated on the FS drawings or specs. Please confirm this scope line is N/A.	Confirmed as N/A. this will be reflected in the forcoming addendum.	Metcon	3/26/2025	BP1140	11400
67	3.24.25	Scope	Please confirm the concrete pad for the refrigeration compressor stand is by others as shown on FS-005.	That is correct. Concrete equipment pads are not in BP1140.	Metcon	3/26/2025	BP1140	11400
68	3.24.25	Scope	BP 1140 scope of work line 25 states FSEC is responsible for installing sleeves / drilling building penetrations. It is not typical for us to core drill. Can we provide the sleeves to Masonry contractor early for them to install as the wall is built?	Yes this will be clarified in the forthcoming addendum. BP1140 will require FSEC to provide sleeves and locations for installation by other subcontractor. Any additional/missed/moved FSEC sleeves required in work-in-place that require core drilling will be the responsibility of FSEC.	Metcon	3/27/2025	BP1140	11400
69	3.24.25	Scope	Since our onsite presence is limited to 2-3 weeks total with an average crew size of 2, can BP 1140 be exempt from the composite cleanup crew requirements?	If composite clean-up is determined to be necessary, No exepmtions will be made for composite clean up.	Metcon	3/26/2025	BP1140	11400
70	3.24.25	Scope	Under the standard scope inclusions – line 42 mentions the requirement to use a robotic total station for layout. With our scope of work, we typically submit rough-in drawings for MEP layout for approval to the design team and once approved we handover to the MEP trades for them to reference as they are roughing in onsite. We will then review the rough-in locations prior to the slab being poured to ensure that everything is in their correct locations. Since we are not doing any of the actual roughing in, can BP 1140 be exempt from the robotic total station requirement? Especially if the MEP trades will already be utilizing the robotic total station for their work which is tied to our equipment?	Backchecking and verification are listed as a requirement for use of the total station equipment. If desired, Metcon can provide this service as detailed in the project scopes.	Metcon	3/26/2025	BP1140	11400
71	3.26.2025	Scope	Bid Package #1020 lists Section 11 95 15 Kilns and Pottery Studio Equipment. This spec section is not in the project manual. If required in this scope of work, please provide a specification.	The kiln is NIC. The BP1020 has been updated to remove Section 11 95 15. This will be clarified in the forthcoming addendum.	Metcon	3/26/2025	BP1230	Nycom
72	3.26.25	Scope	Bid Package #1230 lists Section 12 36 00 Phenolic Resin Countertops but this spec section is not found in the project manual. Phenolic Resin Countertops are covered under spec section 12 32 16. Manufactured Plastic Laminate Clad Casework. Please confirm section 12 36 00 can be removed from Bid Package 1230 requirements.	That is correct. The phenolic resin countertops are covered in spec section 12 36 16. This has been clarified in the updated BP1230 revised in the forthcoming addendum.	Metcon	3/26/2025	BP1230	Nycom
73	3.26.25	Scope	Bid Package #1230 lists that all sinks and faucets located within the casework should be provided by this subcontractor. Does that mean that this bid package should pick up all of the stainless steel sinks and associated faucets along with the lab sinks and faucets? Stainless steel sinks and associated faucets are almost always supplied by the plumber.	Correct. All sinks and faucets in casework/countertops provided by BP1230 are included in BP1230.	Metcon	3/26/2025	BP1230	Nycom
74	3.26.25	Drawings	Sheet P-002 calls for L1-L3 faucets but nothing is specified for the lab faucets in the schedule or specs. Please provide.	Fixtures L1-L3 are to be Elkay Single Hole with Concealed Deck Faucet with 5" Gooseneck Spout 4" Wristblade Handles Model LK500GN05T4. The design intent is to be this faucet. Final coordination with Case Work Provider will be required.	SFL+a	4/7/2025	BP1230	Nycom
75	3.26.25	Scope	Please clarify if the plumber is responsible for the acid neutralization tanks.	Confirmed acid neutralization provided and installed in BP2200.	Metcon	3/26/2025	BP1230	Nycom

76	3.26.25	Scope	Which bid package is responsible for the ES1 Emergency Showers and EW1 Emergency Eyewash?	Emergency fixtures are included in BP2200.	Metcon	3/26/2025	BP1230	Nycom
77	3.26.25	Specifications	What material should the lab sinks be, epoxy resin or stainless steel?	Sinks to be drop in molded modified epoxy resin, non-glare black finish. Specification to be revised in forthcoming Addendum.	SFL+a	3/26/2025	BP1230	Nycom
78	3.26.25	Specifications	Section 06 20 00 calls for AWI QCP labels and/or certificates. This spec section covers a relatively small scope of work for this project and this requirement will add cost. Is it possible to have this AWI QCP requirement removed?	Spec will be revised to remove requirement for QC program. Note that AWI certification is still required within the qualification section.	SFL+a	4/11/2025	BP1230	Nycom
79	3.26.25	Specifications	WD2 Finish calls for 2" thick solid Red Oak wall/ceiling cladding. This product would potentially twist and warp over time and would also be costly. Would rift veneer paneling with solid wood edge would be acceptable in lieu of 2" solid lumber.	This is acceptable, drawings to be updated in Addendum 3.	SFL+a	4/2/2025	BP1230	Nycom
80	3.26.25	Specifications	Section 11 53 00 calls for a specific Liebherr refrigerator/freezer. This product comes from Europe and is very expensive. Please confirm this product is required.	A refrigerator is required. Refer to specs for other acceptable manufacturers. Sub can provide a product of equal quality from one of the approved manufacturers or provide a substitution request that conforms to the project specification.	SFL+a	4/9/2025	BP1230	Nycom
81	3.26.25	Specifications	Spec Section 083313.13 - Coiling Counter Fire Shutter 1. No coiling doors are called out as fire rated on door schedule. Are there any coiling counter fire shutters on this project and, if so, where are they shown?	There are no coiling counter fire shutters. This spec section will be removed. Refer to spec section 08 22 13 Coiling Counter Doors.	SFL+a	4/7/2025	BP0833	Custom Door & Gate
82	3.26.25	Scope	1. Will bid package BP 0510 Structural Steel furnish and install the 6x4x5/16 (LLV) steel angle clips shown on 4/A-531, 1&3/A-5222 and 6"x8"x1/4" continuous galvanized bent plate 8/A-521and similar details?	Miscellaneous steel angles are to be supplied by steel subcontractor. Masonry Subcontractor is responsible for the installation of all exterior steel support angles installed behind spray foam insulation.This will be clarified in the forthcoming Addendum.	Metcon	3/27/2025	BP0400	Brodie Contractors
83	3.26.25	Scope	2. Will bid package BP 0510 Structural Steel furnish and install the continuous metal cleat on 1/A-521 galvanized bent plate 8/A-521and similar details?	Miscellaneous steel angles are to be supplied by steel subcontractor. Masonry Subcontractor is responsible for the installation of all exterior steel support angles installed behind spray foam insulation.This will be clarified in the forthcoming Addendum.	Metcon	3/27/2025	BP0400	Brodie Contractors
84	3.26.25	Scope	3. What bid package supplies and installs the 6x4x5/16x4 (LLV) steel angle clip to support the Cast Stone Sills @ 5/A-501 & similar details?	Miscellaneous steel angles are to be supplied by steel subcontractor. Masonry Subcontractor is responsible for the installation of all exterior steel support angles installed behind spray foam insulation.This will be clarified in the forthcoming Addendum.	Metcon	3/27/2025	BP0400	Brodie Contractors
85	3.26.25	Scope	4. What bid package furnishes and installs galvanized steel angle at detail 14/A-501?	Miscellaneous steel angles are to be supplied by steel subcontractor. Masonry Subcontractor is responsible for the installation of all exterior steel support angles installed behind spray foam insulation.This will be clarified in the forthcoming Addendum.	Metcon	3/27/2025	BP0400	Brodie Contractors
86	3.26.25	Scope	5. Please confirm that the prefinished metal sill flashing w/hemmed edge at detail 4/A-501 and similar details will be supplied and installed by others, not BP 0420 Turnkey Masonry.	Yes this is correct	Metcon	3/27/2025	BP0400	Brodie Contractors
87	3.26.25	Scope	6. Please confirm that BP 0740 Wall Panel will provide material and labor for all prefinished metal flashings @ details 2,3,4,6&7/A-523 & similar details.	Yes this is correct	Metcon	3/27/2025	BP0400	Brodie Contractors
88	3.26.25	Scope	7. Please confirm that prefinished metal flashing @ canopy details 6&7/A-532 & similar details will be supplied & installed by others, not BP 0420 Turnkey Masonry.	Yes this is correct	Metcon	3/27/2025	BP0400	Brodie Contractos
89	3.26.25	RFI	8. Please confirm per RFI item 39,BP 0420 Turnkey Masonry subs are to contact the vendor for brick pricing and not use the allowance.	Contact the vendor.	SFL+a	4/2/2025	BP0400	Brodie Contractors
90	3.26.25	Scope	9. Sheet Waterproofing and Cold Fluid Applied Waterproofing sections are listed under BP 0420 Scope of Work Specifications. However, there is no mention of those items in the specific scope of work for BP 0420. Please confirm BP 0420 does not have damp proofing and water proofing and that it is in BP0710 Damp proofing, Waterproofing, Fireproofing & Joint Protection.	Correct	Metcon	3/27/2025	BP0400	Brodie Contractors
91	3.26.25	Scope	10. Please confirm that BP 0510 Structural Steel supplies and installs permanent wall bracing angles for the top of masonry walls at details 6,7 &10/S-401.	Correct	Metcon	3/27/2025	BP0400	Brodie Contractors
92	3.26.25	Scope	11. Please confirm that BP 0510 Structural Steel furnishes and installs continuous L6x4x3/8 LLV shown at detail 2,3,9,10 & 11/S-402 & similar details.	Correct	Metcon	3/27/2025	BP0400	Brodie Contractors

93	3.26.25	Scope	12. Please confirm that BP 0510 Structural Steel supplies and installs bent plates shown @ detail 4/S-403 and similar details.	Correct	Metcon	3/27/2025	BP0400	Brodie Contractors
94	3.26.25	Specifications	13. Specification 04 20 00-7 2.3 H states to use seismic. Is seismic wire required for this project at joint reinforcement and veneer wall ties at metal studs?	Normal wall ties can be used, seismic ties are not required.	B&P	4/10/2025	BP0400	Brodie Contractors
95	3.27.25	Scope	Specification section 04 20 00 3.4 Cutting and Fitting C. & D. - penetrations less than 16 inches per item C. "Core drill masonry walls for pipe and sleeve penetrations, regardless of size. Do not break out masonry for penetration access." Bid package #0420 item #24 states "All MEPF pipe sleeving shall be furnished by appropriate MEPF Subcontractor and installed by this Subcontractor (mason). Layout of sleeving shall be by MEPF trades." I infer from these two statements that all wall sleeve core drilling is a part of the masonry scope. Is this correct? If this requirement is correct, it falls outside what we normally see and we would certainly use a 2nd tier subcontractor to provide the cores. The problem is determining a count of the cores required as this does not fall within a masonry estimator's forte. All this being said, is there any way to remove this scope item from Bid package #0420 and add to the MEPF scopes?	Clarifications have been added in the forthcoming addendum that clarify the sleeves and locations are provided by MEPF subcontractors to the masonry subcontractor to be installed as the walls are being installed. Any missed/moved sleeves would then require core drilling which would be the responsivbility of the MEPF subcontractors.	Metcon	3/27/2025	BP0400	JB Overman Masonry
96	3.27.25	Scope	Addendum #2 (See RFI log item #35): States "Both scopes have been clarified to confirmed joint covers are to be included in the Damproofing, Waterproofing, Fireproofing & Joint Protection Scope #BP0710 and NOT the Turnkey Masonry Scope #BO0420...". Item #20 of the addendum 2 revised the #BO0420 scope by striking through the word "joint covers" but Item #41 d. still states, "Surface mounted wall to wall expansion joint covers and gaskets as shown on the drawings". Please confirm that Item #41 d. should also be omitted from the masonry scope. Also, please see the snippet below: Is there any component of this joint that is a part of the #BO0420 scope and if so, what is the specification paragraph number that calls out the material to be included?  	BP0420 Item 41-d has been removed from the BP0420 in the forthcoming addendum. Regarding detail 14/A-511, the only component in BP0420 is the masonry wall.	Metcon	3/27/2025	BP0400	JB Overman Masonry
97	3.28.25	Scope	In regard to the Masonry Scope #BP0420 Part C. Statement "Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer", I am not able to find any delegated design items that relate to the masonry scope. Are there any delegated design items to pertain to the masonry scope?	As part of the bidding process, it is the subcontractor's responsibility to review the contract documents in full and identify any applicable delegated design items related to their scope. We are not in a position to confirm or deny the existence of delegated design requirements on their behalf. Please refer to the contract documents, specifications, and plans for guidance.	Metcon	3/31/2025	BP0400	JB Overman Masonry
98	3.28.25	Scope	The Masonry Scope #BP0420 is written in such heavily nuanced format with no statements being concise it is difficult to decipher what many of the items mean. An example is Item #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."* What does the part that states *"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." mean?* Does it mean the design for placement of control Joints is a delegated design item for the masonry scope that will require an engineer's seal?	The trade partner needs to show on their shop drawings where they plan to place the control joints. These joints should generally follow what's shown on the plans, but no section of the wall should exceed 30 feet without a control joint. The purpose is to ensure that the joints are spaced correctly, maintain proper aesthetics, and align with doors, windows, and other wall features. This is not considered a delegated engineering design requiring a licensed engineer's seal unless specifically noted elsewhere in the specifications. It is primarily a coordination item and should follow standard masonry practices.	Metcon	3/31/2025	BP0400	JB Overman Masonry
99	3.28.25	Scope	The masonry wall expansion joints (noted on plans as 1" EXP JOINT) are called out on the G series sheet (G-111 life safety plan), they are called out on the A series sheets, they are called out in the S series sheets all with different quantities and locations making it appear as if the design for the location of these joints is still in the design development phase. Can this be cleaned up by showing all the required expansion joints on one sheet the same way the architect has attempted to handle the control joints on Sheet A-102 (see addendum #2 RFI item # 56 requesting this sheet to be cleaned up)? Due to the very tight shop drawing timelines it will be critical to have the design/location of control and expansion joints be completed before execution of contracts. If this design is being off loaded onto the subcontractors the timelines will need to be extended accordingly. Please note these locations are critical to production of the concrete footing package and masonry package rebar shop drawings as embedded vertical dowels occur exactly at each side of these joints.	Reference Structural drawings for final locations of expansion joint labels.	SFL+a	4/7/2025	BP0400	JB Overman Masonry

100	3.28.25	Scope	Specification section 04 20 00 Section 2.3 item Q - calls out "*Joint Filler: Closed cell rubber (polychloroprene) oversized 50 percent to joint width; selfexpanding;* width indicated by maximum lengths". Masonry Scope #BP0420 Item # 41. j. states "subcontractor shall provide all compressible fillers as required at the top of wall conditions". Is the material specified in Section 2.3.Q used at wall tops or is for the control joint location shown on Detail 13/A-501? If this material is used at wall tops, the detail snippets included below seem to contradict as they show mineral batt insulation. Is mineral batt insulation a part of the BP0420 scope or should it be included in the BP0710 scope? Please note that mineral batt insulation is not included in the accessories section of the masonry scope. Per the provided MetCon schedule installation of structural CMU walls will occur before installation of the metal roof decking, requiring a complete 2nd mobilization for the mason to install whatever material is used at wall tops. Shouldn't this be a part of the BP0710 scope? 	The mineral batt insulation highlighted in the RFI is provided by BP0710. This will be clarified in the forthcoming addendum.	Metcon	4/7/2025	BP0400	JB Overman Masonry
101	3.28.25	Scope	In regard to the Masonry Scope #BP0420 Part D Item # 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."* Please amend by striking through *"has found no obvious omissions"* as it is obvious that there are omissions (see Addendum #1 and #2 RFI logs) and it would not be fair to the bidding subcontractors to coerce them to attest to and bond this statement. Based on the number of RFI's generated to date (see addendum #1 and #2) it is not reasonable for us to assume that no matter how many addenda are released that there would not be any omissions. Hypothetically speaking, depending upon the discipline of the person evaluating a possible stated omission once the project is let, there could be very different interpretations of the word obvious as this term is subjective. That being said, will you please amend the scope by striking through "*has found no obvious omissions* "?	For clarification, we will not be modifying the verbiage to make it less direct. The wording will stay as written.	Metcon	3/31/2025	BP0400	JB Overman Masonry
102	3.28.25	Drawings	Exterior Elevation 1/A-201 for exterior wall along column L between 9&11 is noted as BRK-1, however that wall returns at column line 11 as BRK-2 between L&K as shown on 3/A-202. Is this an error? Please note you can't do a return with a different brick color at col L & 11. Please clarify.	This is an error. Areas between L&K are to be BRK-1. This will be corrected in Addendum 3.	SFL+a	4/2/2025	BP0400	Brodie Contractors
103	3.28.25	Scope	Please confirm that the Acoustic Spray at top of masonry walls shown on detail 3/A-010 is by others (BP 0710 scope of work has top of wall fire-safing and all rated and rated and non-rated masonry caulk at tops of walls); not BP 0420 Turnkey Masonry.	That is correct and will be reflected accordingly in the forthcoming addendum.	Metcon	3/28/2025	BP0400	Brodie Contractors
104	4.1.25	Drawings	I need to know if the casework in Science rooms and Prep rooms 312, 316, 318, 411, 415, 418, 511, 515 and 518 are supposed to be plastic laminate, or wood? The elevation drawings, specifically elev. 7/A411, note that the cabinets are PL-1, and that the tops are phenolic resin. On that same sheet, under General Notes (number 2) it states that all science lab and prep room casework is to be wood with epoxy resin tops. Please clarify.	All science labs and prep room millwork to be chemical resistant plastic laminate with epoxy resin countertops. Legend to be revised in Addendum 3.	SFL+a	4/2/2025	BP1230	Blankenship
105	4.1.25	Specifications	The Finish Schedule on sheet A701, at the very bottom, references Spec Section 12 35 53 - Wood Laboratory Casework. I don't see a spec section 12 35 53 within the Specifications. IF, the science casework is to be wood, is it Red Oak, or otherwise? Please advise.	There is no wood laboratory casework in the project. This has been removed. Schedule will be updated in Addendum 3.	SFL+a	4/2/2025	BP1220	Blankenship
106	4.1.25	Drawings	Also, under General Notes on sheet A411, item number 5, it lists numerous safety equipment items to be provided by the General Contractor. I have never seen this type of requirement before. Will you be looking for us to provide you prices for these items? Some of these items I have no idea about, such as "spill control center, safety/chemical inventory software, broken glass disposal containers." Also, they call for safety shields (one per student), goggles and goggle sanitizer (one per student) and heat & acid resistant gloves (one per student). How many students are we talking about? This is quite out of the ordinary!	Please look at the specifications and provide for 24 students minimum.	SFL+a	4/1/2025	BP1220	Blankenship
107	4.2.25	Drawings	S403 details 1, 3, and 5 show the edge of hollow core to be formed and poured with no cmu face shell since it's buried in the cavity. But detail 12 does show cmu, can this be changed to match the other exterior details?	Detail 12 will be changed to match the other details.	B&P	4/10/2025	BP0400	Southeastern Contracting
108	4.2.25	Drawings	S403 details 2, 8, and 9 show a cmu face shell at the edge of hollow core. Please confirm that the grout will be formed and poured by the hollow core subcontractor prior to this face shell being installed, similar to other hollow core projects.	Correct. This will be reflected accordingly in the forthcoming addendum.	Metcon	4/7/2025	BP0400	Southeastern Contracting

109	4.2.25	Drawings	On a111 along column line 3, near J.4 there is a wall labeled K44 which is a 4" half high block to be painted. Is the column cover directly across from it also supposed to be K44? It is not marked. Same question for the lower left interior corner of Vestibule 100.	Yes, this should be K44 in both spots mentioned. Tags have been added in drawing for clarification.	SFL+a	4/7/2025	BP0400	Southeastern Contracting
110	4.2.25	Drawings	Detail 16/s301, I cannot find this detail referenced anywhere. The site drawing c3.1 keynote 5 calls for a screened mechanical yard, but that keynote is not used. It is possible that it refers to the "loading area" indicated by keynote 4, but that screen wall is detail 17/s301. Please advise if I am missing another screen wall.	This detail was intended for the site sign. The detail has been renamed and dimensions have been updated to match arch.	B&P	4/10/2025	BP0400	Southeastern Contracting
111	4.2.25	Drawings	Detail 3/aa502 describes the LED panels as installed on a 3/8" brick inset panel, but the cut section doesn't show this. Will there be brick behind these panels?	The brick is inset 3/8" inch in from the coursing. There will not be brick behind the panels. The LED panel will be held in place with angle support. See the revised design of 3/A-502.	SFL+a	4/7/2025	BP0400	Southeastern Contracting
112	4.2.25	Scope	Detail 14/a501, who is responsible for installing the bolted angle under the rowlock?	Installation will be done by BP0420, bolted angles be furnished by BP0510.	Metcon	4/7/2025	BP0400	Southeastern Contracting
113	4.2.25	Drawings	Detail 3/a301 just to the right of the vestibule is a display case, and it appears that the half-high cmu veneer runs from one adjacent column to the other, underneath the display case. You can also see this in 2/a316. However detail 15/a511 does not show this veneer. Please confirm what is intended here.	The wall supporting the display case now reflects the CMU type that is called out in 15/A-511. This will be a 6" width CMU running between the lengths of the column wraps. 3/A-301 and 2/A-316 now show the 8"h x 6"w block.	SFL+a	4/7/2025	BP0400	Southeastern Contracting
114	4.2.25	Drawings	For the exterior wall running along column line L, details 1&2/a201 show this to be FB1. As it turns the corner at the mechanical screen wall, however, detail 3/a202 shows this to be FB2. Can we get some clarity here?	This is an error. Areas between L&K are to be BRK-1. This will be corrected in Addendum 3.	SFL+a	4/7/2025	BP0400	Southeastern Contracting
115	4.2.25	Drawings	On a112 at the Dishwashing 214J there is a coiling door with the cut 4/a313, which appears to show 4x4x16 half high cmu veneer and brick above. No cmu veneer is shown on 2/a416, please advise. Should we assume the brick is FB1?	Brick has been removed. CMU veneer would be above ceiling so it is not shown in 2/A-416. See revised detail 4/A-313.	SFL+a	4/9/2025	BP0400	Southeastern Contracting
116	4.2.25	Drawings	Door schedule lists door 200.X as an SF22 frame. STFR elevation page does not show an SF22. Door is shown on 3/A-202 and appears similar to SF11.	200.X changed to have SF11 frame. Changes reflected both on A-116 and A-601.	SFL+a	4/8/2025	BP0840	Carolina Classic Windows and Glass
117	4.2.25	Drawings	Door schedule lists 400.X and 500.X as a type SF16. Floor plan lists them as SF27.	This was an error. It has been corrected to be SF27 on door schedule.	SFL+a	4/7/2025	BP0840	Carolina Classic Windows and Glass
118	4.2.25	Drawings	Doors 511.X and 515.X are shown as SF1 on floor plans, listed as type F on door schedule. They are shown on 9/A-211 as frames that do not have a similar frame on A-611. Are they meant to be separate from the SF1 frames?	SF1 is just for the glazing condition next to the doors. For 511X, 515X, and similarly, 312X, 316X, 411X, and 415X, all frame types changed to type 2, to capture the transom above the door. This has been updated in A-601.	SFL+a	4/9/2025	BP0840	Carolina Classic Windows and Glass
119	4.2.25	Drawings	Frame SF16 shows laminated units only in top row. Is this correct?	This was an error. All units to now be IG2L. Change now reflected in A-611. See glazing schedule on 611 for IG2L to change from white to clear laminate.	SFL+a	4/7/2025	BP0840	Carolina Classic Windows and Glass
120	4.2.25	Drawings	Lower lites at SF27 in frame and door are gray with no tag. Are these to be metal panels?	This was an error. All units to now be IG2L. Change now reflected in A-611. See glazing schedule on 611 for IG2L to change from white to clear laminate.	SFL+a	4/7/2025	BP0840	Carolina Classic Windows and Glass
121	4.2.25	Drawings	Are the unmarked panels on 6/A-420 unframed mirrors?	These are tempered mirrors, refer to spec section 08 83 00 - Mirrors for more information. Spec reference to be added to drawing for Addendum 3.	SFL+a	4/7/2025	BP0840	Carolina Classic Windows and Glass
122	4.2.25	Scope	What bid package will be providing FRP door leaves in aluminum framing?	FRP doors and leaves are to be provided by BP0810. Refer to BP0810 scope for further clarification. Aluminum frames are to be provided by BP0840.	Metcon	4/7/2025	BP0840	Carolina Classic Windows and Glass
123	4.2.25	Scope	Is bid package 0840 providing aluminum door framing at WD doors with no transoms or sidelites?	Yes, BP0840 is responsible for providing aluminum door frames. Refer to BP0840 scope for additional clarification.	Metcon	4/7/2025	BP0840	Carolina Classic Windows and Glass
124	4.2.25	Drawings	Please refer to Sheet A-112 at Dinning 212/Serving 213 demising wall that runs along column line 9. On this wall a Section 4/A-313 is called out. This wall section shows a 4'0" high interior veneer that appears to be hatched to indicate 4 x 4 x 16 CMU units starting at elevation 7'4" AFF. I am not able to find an elevation view to allow me to determine the extent of this condition. Please advise.	Interior Veneer has been removed. The 4x4x16 CMU /Brick. This condition is 14'8" plan north from Column Line L. The CMU transition to Brick veneer at 14'-0" AFF at its lowest point. The intent is for brick veneer to follow the slope of the roof so veneer is exposed at the exterior at all times on demising wall.	SFL+a	4/11/2025	BP0400	JB Overman Masonry
125	4.2.25	Scope	Does our turn key grading price includes excavating for footings and foundations, and backfill footings and foundations for building?	No.	Metcon	4/7/2025	BP3100	Barnhill
126	4.2.25	Drawings	Do we install the stone base under the building concrete slab?	BP3100 was updated in Addendum 1 to include provide 2" of stone on building pad. FFE of slab is as shown on the contract docments.	SFL+a	4/7/2025	BP3100	Barnhill

127	4.2.25	Scope	Addenda 1 page 7 of 10, item 5 cut and fill operation building pad it states we provide 2 inch stone base on building pad? Is it part of turn key grading and please explain?	Yes, this is in the turnkey sitework scope. Provide 2" of stone on the building pad. This activity has nothing to do with prep and pouring slab on grade.	Metcon	4/7/2025	BP3100	Barnhill
128	4.2.25	Scope	Addition specifications on fencing is it available? Please give more detail.	Refer to specification section 08 42 26.10 Glass Display Case Doors for information regarding the doors. All other elements of the display case are to be custom millwork per details 15 and 16/A-511. Metcon to clarify	Metcon	4/7/2025	BP3100	Barnhill
129	4.2.25	Scope	Bollards are they furnish by others and does the grading contractor install?	The bollards are supplied in BP0510 and installation is included in the scope for BP3100 Item F.14.	Metcon	4/7/2025	BP3100	Barnhill
130	4.2.25	Scope	How many double swing road gates are required?	Three in total at Gate 1,2 and 3	Metcon	4/7/2025	BP3100	Barnhill
131	4.2.25	Scope	Need more information and instructions how to commence digging from on site borrow pit? When finished digging from borrow pit, how do we leave the borrow pit? What does the finished borrow pit look like?	The borrow pit should have negative slope towards the closest swell or ditch. Additional clarification will be added to BP3100 in Addednum 3. Also refer to Supplemental Borrow Pit Exhibit issued in Addednum 1 for additional infomration.	Metcon	4/7/2025	BP3100	Barnhill
132	4.2.25	Scope	Addenda II Project specific scope requirements item "D" request a temporary road ? Cant find logistics plan and location? Need plan with beginning to end. Or need a quantity to bid from for an allowance?	Refer to bid manual for site logistics plan. Per the logistics plan, the temporary road is to follow the same path as the permanent road.	Metcon	4/7/2025	BP3100	Barnhill
133	4.3.25	Scope	Does the grading turnkey site contractor furnish an office trailer?	No.	Metcon	4/7/2025	BP3100	Barnhill
134	4.3.25	Scope	Once the geothermal contractor installs wells and etc, who is responsible for finish grading the area?	BP3100	Metcon	4/7/2025	BP3100	Barnhill
135	4.3.25	Scope	Who also grass and seed the area of geothermal well field?	BP3290	Metcon	4/7/2025	BP3100	Barnhill
136	4.4.25	Drawings	Detail 4 Sheet S-403, 1/4"x8"x6" bent plate w/ 5/8" expansion anchors @ 4' O.C. Confirm material and install not by BP0510.	Yes, these are to be furnished and installed by BP510.	Metcon	4/7/2025	BP0510	North State Steel
137	4.4.25	Drawings	Detail 4 Sheet S-403, Confirm bearing pads at these locations TYP will be by hollow core supplier	Confirmed.	Metcon	4/7/2025	BP0510	North State Steel
138	4.4.25	Drawings	"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." Confirm this is only at locations where BP0510 will have work taking place not the entire structure. Confirm roofer or LGMT supplier will provide fall protection at roof level.	Yes roofer will provide fall protection for their scope of work.	Metcon	4/7/2025	BP0510	North State Steel
139	4.4.25	Drawings	Detail 10 Sheet S-401, Confirm material and install of wall bracing to metal studs not by BP0510	Metal wall bracing to be provided by BP0510.	Mectcon	4/7/2025	BP0510	North State Steel
140	4.4.25	Drawings	Detail 6 & 7 Sheet S-401, Confirm material and install of wall bracing to hollow core planks not by BP0510	Metal wall bracing to be provided by BP0510.	Metcon	4/7/2025	BP0510	North State Steel
141	4.4.25	Drawings	Detail 4 Sheet S-401, Confirm Pre-Fab canopy material and install not by BP0510	BP0510 is responsible for installing canopy brackets built-up sections. Canopy brackets furnished by others. This will be updated in the forthcoming Addendum 3.	Metcon	4/7/2025	BP0510	North State Steel
142	4.4.25	Drawings	Detail 1 Sheet S-401, Confirm install not by BP0510	BP0510 is responsible for the installation of steel beam & bearing plate and grout. BP0420 is responsible for anchor bolts.	Metcon	4/7/2025	BP0510	North State Steel
143	4.4.25	General	What is the estimated completion date?	Refer to the schedule within the project documents.	Metcon	4/7/2025	BP1220	Commonwealth Blinds & Shades
144	4.4.25	General	Are subs required to pay to park vehicles on/off site?	There is limited parking onsite. All off site parking will be the trade partners responsibility	Metcon	4/7/2025	BP1220	Commonwealth Blinds & Shades
145	4.4.25	Scope	May we exclude composite cleaning? We include daily/final cleaning, for a small (less than 5 person) window treatment crew, typ. This is a typical exclusion for window treatments as we are so late in the installation process that most of these items would already be completed before we mobilize. We do show where blocking is needed for the window treatments in our shop drawings.	No, if required, composite clean up will be required for every subcontractor onsite.	Metcon	4/7/2025	BP1220	Commonwealth Blinds & Shades
146	4.4.25	Scope	May we exclude joint sealants? Joint sealants are not typical on window treatments; we request this exclusion as occasionally it will be requested after the fact.	Refer to spec section 32 31 13 for additional site fencing information	Metcon	4/7/2025	BP1220	Commonwealth Blinds & Shades

147	4.4.25	Scope	May we exclude Electrical? Commonwealth Blinds is not a licensed electrical contractor and does not provide any electrical services including providing power, connecting power, j-boxes, all wiring & conduit between shades, switch, controls & power source. A 4-foot hard wire lead from shade motor provided. Please confirm this is acceptable and we may exclude electrical requirements. May we exclude Low Voltage wire and wiring?	Refer to bid package for electrical coordination requirements. Electrical contractor is responsible for all electrical system installations and electrical final connections. This includes low voltage.	Metcon	4/7/2025	BP1220	Commonwealth Blinds & Shades
148	4.4.25	Specifications	1.12.A calls for 2 of each type of shade assembly. We find this tends to inflate the bid price; we request to quote 5% attic stock (typical). Please advise.	Owner has requested attic stock for common roller shade sizes and types. Revised specification with required quantities and locations to be provided with Addendum 3.	SFL+a	4/10/2025	BP1220	Commonwealth Blinds & Shades
149	4.4.25	Specifications	2.3.A.2. specifies, "headbox." MechoShade only offers front fascia for motorized shades. Alternatively, a surface mounted, break metal pocket is available as well. Please advise which is needed.	The motorized shade (WT3) is to be revised to a single-roll blackout shade. MechoShade appears to have products that meet the spec section referenced in this RFI. Provide product data for substitution request if product does not meet specification. Shade housing to consist of a headbox with fascia and back/top cover.	SFL+a	4/10/2025	BP1220	Commonwealth Blinds & Shades
150	4.4.25	Specifications	2.3.A.3 calls for Fabric Retention System on the motorized shade. This is a more involved (expensive) specification than a typical light-blocking shade. Is this required? If yes, may we include for the blackout shade band only? May we exclude Fabric Retention System for the light-filtering shades? If yes, may we quote with the more typical side and sill channel?	The motorized shade (WT3) is to be revised to a single-roll blackout shade. Provide fabric retention system as specified.	SFL+a	4/10/2025	BP1220	Commonwealth Blinds & Shades
151	4.4.25	Specifications	2.3.D calls for the motorized shades to be single roll. The drawings call for the motorized shades (WT-3) to be Dual Shades. Please advise.	The motorized shade (WT3) is to be revised to a single-roll blackout shade to match specification. Interior Finish Legend on A-701 to be revised.	SFL+a	4/10/2025	BP1220	Commonwealth Blinds & Shades
152	4.4.25	Specifications	3.3.C.1 indicates Turn-Key Single-Source Responsibility for Motorized Shades. a.The electrical side of line-voltage motorized shades requires a licensed electrician due to the 120V wiring, conduit and J-boxes required. This is not a task for the shade subcontractor due to the licenses and permits required for electrical services. We will exclude this specification section on our Estimate. However, we will provide the necessary information for coordination with the electrical contractor. We request the ability to exclude Low-Voltage wire/wiring. Please advise.	Refer to bid package for electrical coordination requirements. Electrical contractor is responsible for all electrical system installations and electrical final connections. This includes low voltage.	Metcon	4/10/2025	BP1220	Commonwealth Blinds & Shades
153	4.4.25	Scope	BP1011 Visual Displays has verbiage regarding interior and exterior signage (Points F17-19) however there is a signage package which covers this same scope. To what degree is BP1011 responsible for signage?	Line items F17 - F19 will be removed from BP1011 as it is included in the scope of work for BP1014-Signage. This will be updated in the forthcoming Addendum 3.	Metcon	4/7/2025	BP1011	Precision Walls
154	4.4.25	Specifications	A-511 15 & 16 detail display cases but display cases are not listed within the visual display package nor was a specification provided, whose responsibility are the procurement and installation of display cases?	Refer to specification section 08 42 26.10 Glass Display Case Doors for information regarding the doors. All other elements of the display case are to be custom millwork per details 15 and 16/A-511. Display cases are in BP0840.	SFL+a	4/10/2025	BP1011	Precision Walls
155	4.4.25	Specifications	Please provide a specification section for 119515 Kilns and Pottery Studio Equipment as listed in BP1020	Kiln is provided and installed by owner. The removal of the kiln will be clarified in Addendum 3.	SFL+a	4/9/2025	BP1020	Precision Walls
156	4.4.25	Specs/Drawings	Quantities of Extinguishers provided in 104400 Fire Protection Specialties do not match quantities shown on the Life Safety plans, which quantity is to be adhered to?	Refer to drawings. Specification has been revised.	SFL+a	4/9/2025	BP1020	Precision Walls
157	4.4.25	Specifications	BP0920 F4 states this package is responsible for interior and exterior wood blocking, BP1020 F6 says to include all blocking for work within the agreement. Is BP0920 or BP1020 responsible for blocking as required by BP1020?	All in wall interior and exterior blocking will be installed by BP0920. BP1020 is responsible for proving locations and coordination	Metcon	4/7/2025	BP0920/ BP1020	Precision Walls
158	4.4.25	Scope	Please confirm Laboratory Refrigeration Unit connections are by other trades, BP1020 would be responsible for the material and placement only.	Correct. This will be reflected accordingly in the forthcoming addendum.	Metcon	4/7/2025	BP1020	Precision Walls
159	4.4.25	Drawimgs/Spces	Please provide qty of wall corner guards as the space was left blank in specification 10 26 23.14 Wall Protection.	There are no corner guards in this project, only bullnose CMU. Bullnose locations to be added in Addendum 3 and spec to be revised or removed.	SFL+a	4/7/2025	BP1020	Precision Walls
160	4.7.25		Is the ABAA - QAP Program required to be used on the job?	No, ABAA - QAP is only provided as a reference in the spec for best practices. In the same section under qualifications, there is no ABAA certification required.	SFL+a	4/9/2025	BP0920	Sears Contract
161	4.7.25	Scope	Who is responsible for the sheet metal coping?	Roof Coping is in BP0750.	Metcon	4/10/2025	BP0920	Sears Contract
162	4.8.25	Scope	Does Metcon require any particular products to be used for final cleaning?	Please refer to the spec section for final cleaning / close out for further clarification regarding cleaning products.	Metcon	4/9/2025	BP0170	Legacy Cleanz

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163	4.8.25	Scope	Does the Final Cleaning company have to provide trash bins?	Yes, per your scope of work, we do require trash bins on site. Please refer to the scope of work for further clarification.	Metcon	4/9/2025	BP0170	Legacy Cleanz
164	4.8.25	Scope	Would the time of arrival be 6/7/ or 8am?	Please refer to the scope of work for clarification regarding site hours for this project.	Metcon	4/9/2025	BP0170	Legacy Cleanz
165	4.8.25	Scope	Can the awarded cleaning company come out ahead of time closer to start date to set up the supplies etc needed to start the work the next days coming?	Yes	Metcon	4/9/2025	BP0170	Legacy Cleanz
166	4.8.25	Scope	Could you identify what material and post required for your temporary construction fence.	Refer to spec section 32 31 13 for additional site fencing information	Metcon	4/10/2025	BP3100	Barnhill
167	4.8.25	Scope	What allowances are the electrical contractor is responsible for carrying on the EB Frink Middle School project?	Refer to BP2600 scope and the Bid Manual for a complete list of allowances	Metcon	4/10/2025	BP2600	Triple R
168	4.8.25	Scope	We were looking at your borrow pit area and questions cam up about silt fence , grass and seed and erosion control items. Please clarify and give more information required for erosion control needed at borrow pit.	The LOD have been expanded in addendum 3 to include the area of the on site borrow pit. See updated civil sheets.	SFL+a	4/9/2025	BP3100	Barnhill
169	4.8.25	Specifications	Metal shelving specified in Section 105613 appears to only be shown in rooms 205 and 215. Please clarify if these are the only locations where metal shelving is required. If other locations apply, please provide locations.	Metal Shelving is only needed in rooms 205 and 215A.	SFL+a	4/8/2025	BP1230	Nycom
170	4.8.25	Scope	Bid Package #1011 calls for the subcontractor to provide and install projector screens, TVs, and TV mounts. However, these items are not shown on the plans or called out in Specification Section 101100 (Visual Display Units). Please confirm if these items are required. If so, please provide the necessary tags or identify their locations so we can provide an accurate estimate.	These items will be provided and installed by the owner.	SFL+a	4/9/2025	BP1230	Nycom
171	4.8.25	Scope	Please confirm 50 hour work weeks are mandatory for this project.	Please refer to the scope of work for clarification regarding site hours for this project.	Metcon	4/9/2025	BP1230	Nycom
172	4.8.25	Scope	Display case section detail 15/A-511 shows glass shelving on Rakks brackets. Please confirm these are to be included in Bid package BP 1230.	Confirmed	Metcon	4/8/2025	BP1230	Nycom
173	4.8.25	Drawings	In reference to detail 8 on A-411 the casework does not show a clear dimension off of the adjacent wall. Please provide.	Casework is to be installed 6'-0" clear of plan East wall as shown on detail 8/A-411.	SFL+a	4/8/2025	BP1230	Nycom
174	4.8.25	Scope	Bid Package #1230, Section E, Line 28 lists solid surface windowsills to be included. However, there are no details or locations listed for solid surface sills. Please clarify if these are needed and provide details, and if not, please remove this line from BP1230.	Solid surface sills are not required. BP1230 will be revised to eliminate solid surface stlls. This update will be made in Addendum 3.	Metcon	4/10/2025	BP1230	Nycom
175	4.8.25	Drawings	Please clarify if all 4 sides of the cabinet shelf edges are to receive PVC edge banding. If not, we will include on front edge only.	PVC edge banding to be provided on all four sides of shelves.	SFL+a	4/9/2025	BP1230	Nycom
176	4.8.25	Drawings	Resource rooms #401 on A-114 and #501 on A-115 have elevation tag 10/A-417 noted. This elevation shows two tall cabinets, but the floor plans seem to indicate base and wall cabinets with a sink. Please provide correct elevation for these rooms.	Resource Rooms 401 and 501 to receive new Interior Elevations to be provided in Addendum 3.	SFL+a	4/9/2025	BP1230	Nycom
177	4.8.25	Drawings	Please provide details/elevations of Teacher Display islands in Science classrooms #312, 316, 411, 415, 511 and 515.	Interior Elevations and Section Details to be provided in Addendum 3.	SFL+a	4/9/2025	BP1230	Nycom

178	4.8.25	Scope	Please clarify which bid package is to include the stainless steel pass thru counter shown in detail 17/A-511.	The stainless steel countertops will be added to BP1230 in Addendum 3.	Metcon	4/10/2025	BP1230	Nycom
179	4.8.25	Scope	Lab elevations on A-411 and A-412 show drying racks, but these are not listed in the specs. Please clarify which bid package is to include these and provide spec section.	11 53 00 has been udpated to provided drying rack information.	Metcon	4/9/2025	BP1230	Nycom
180	4.8.25	Drawings	Are SF20/SF21 required to have shades? Most are not marked to receive shades with the exception of SF21 in room 605. If they are to receive shades, please clarify if both transom and sidelights are to receive shades, or only at sidelight.	No roller shades are required for SF20 or SF21. Tag to be removed from Band 605 on sheet A-716 in Addendum 3.	SFL+A	4/10/2025	BP1220	Contract Window Treatments
181	4.8.25	Specifications	The attic stock requirement for 2 shades per size. This makes sense for the manual shades, but will add a significant cost for the 7 dual motorized shades required on project. Please ask architect for clarification of attic stock for motorized shades.	Owner has requested attic stock for common roller shade sizes and types. Revised specification with required quantities and locations to be provided with Addendum 3.	SFL+a	4/10/2025	BP1220	Contract Window Treatments
182	4.8.25	Drawings	Floor plans for Area 300,400 & 500 show window type SF1, which are 6'-0"x 6'-0". However, not all openings labeled SF1 are just windows, some depict doors. See Elevations 1,5 & 9/A-211. Please provide correct information for those type frames.	The glazing condition SF1 directly adjacent to the doors is correct. The doors themselves (312X, 316X, 411X, 415X, 511X, 515X) have changed frame type to now be 2, to record the transom.	SFL+a	4/9/2025	BP0400	Brodie Contractors
183	4.8.25	Drawings	Area 600 floorplan shows a door labeled 200.X at exterior wall along column 13. However, the door schedule calls for the frame to be type SF22 which doesn't exist on the Window Elevations on sheet A-611. Please provide information.	200.X changed to have SF11 frame. Changes reflected both on A-116 and A-601.	SFL+a	4/9/2025	BP0400	Brodie Contractors
184	4.8.25	Scope	Page 8 of 10 - Paragraph 15 (erosion control plans show three entrances and only one entrance has clean stone entry. Does the other two receive clean stone entry material.	Yes. Refer to the Logistics Plan in bid Manual for the three (3) construction site entrances to receove stone. Additional clarification will be added in Addendum 3)	Metcon	4/10/2025.	BP3100	Barnhill
185	4.8.25	Scope	Page 8 of 10 - Paragraph 15 states on entry and exists receive 20' Rip Rap. Need Clarification.	Refer to the Logistics Plan in bid Manual for the three (3) construction site entrances to receove stone.	Metcon	4/10/2025.	BP3100	Barnhill
186	4.8.25	Scope	Page 8 of 10 - Also on page 8 need clarification on paragraph 17 " Unclassified"	Refer to specification section 00 31 00 for additional site soil information	Metcon	4/10/2025.	BP3100	Barnhill
187	4.9.25	Drawings	Please confirm that CFCI Wire Shelving Units shown on the furniture plan area 200 refer to Specification 10 56 13 Metal Storage Shelving.	Correct	SFL+a	4/10/2025	BP1050	Precision Walls
188	4.9.25	Scope	Please clarify to what extent BP1220 is responsible for power wiring, running line voltage, providing conduit etc as authorized installers would not have electrical code knowledge. Package outlines coordination with the electrician however specifications indicate sole responsibility of BP1220. BP2600 is responsible for all conduits, raceways and pull strings for work by others as shown on drawings however drawings do not show necessary wiring for motorized roller shades.	Refer to bid package for electrical coordination requirements. Electrical contractor is responsible for all electrical system installations and electrical final connections. This includes low voltage.	Metcon	4/10/2025	BP1220	Precision Walls
189	4.9.25	Drawings/Specs	Interior finish legend calls for a Dual-roll motorized black out system at gymnasium window locations however specifications indicate single roll. Is Single or Dual roll the design intent?	The motorized shade (WT3) is to be revised to a single-roll blackout shade to match specification. Interior Finish Legend on A-701 to be revised.	SFL+a	4/10/2025	BP1220	Precision Walls
190	4.9.25	Drawings	Can flagpole anchorage/foundation system be detailed? Minimal information is shown regarding wall mount system. Please indicate what brackets are to be used, this is usually specified by the building engineer based on the mounting surface.	The flagpole will not have its own foundation, it will be anchored to the CMU pilaster by the main entrance canopy. Details for the flagpole anchor brackets are provided in detail 2/S-404. The connection of the flagpole to the anchor brackets will need to be coordinated with the flagpole supplier.	B&P	4/10/2025	BP3290	Cardinal
191	4.10.25	Specification	Currently the project is labeled to use cool season Fescue grass, the project region is better suited for warm season grass type. (Bermuda). Clarify if seed/sod areas are to be cool or warm season grass types.	Agree, we'll plan to revise our planting plan. Both sod and seeded areas should receive warm season grass types, Bermuda grass.	SFL+a	4/17/2025	BP3290	Cardinal
192	4.10.25	Drawings	Please clarify the limits of disturbance/construction around the paved areas of L1.0?	We will revise L1.0 to include the limits of disturbance shown on sheet C2.4 Erosion Control Plan – Phase II.	SFL+a	4/17/2025	BP3290	Cardinal
193	4.10.25	Specification	Are the geothermal well fields on page L1.0 within limits of construction? If so what sort of sod/seed do they require?	They are within the limits of disturbance and should be seeded or plugged with the local extension offices recommended variety of Bermuda grass.	SFL+a	4/17/2025	BP3290	Cardinal
194	4.10.25	Plans/ Specification	How many active hydrants are available for temporary water services?	There are two active hydrants located along N. Charles Street; however, one is situated a significant distance from the proposed limits of disturbance. Please refer to Sheet C1.1 for reference.	SFL+a	4/17/2025	BP3290	Cardinal
195	4.10.25	Scope	If subcontractor is responsible for water meter rental/procurement, is subcontractor assuming price coverage for water usage?	No	Metcon	4/10/2025	BP3290	Cardinal

196	4.10.25	Specification	Lawns has a specification about athletic fields in section 02921 however section 02 is not used in the bid specs. What are the lawn specs and bid status for the athletic fields?	We will revise this portion of the specification to exclude athletic fields. No athletic fields are proposed within the limits of disturbance.	SFL+a	4/17/2025	BP3290	Cardinal
197	4.10.25	Scope	Is the offsite topsoil importation a part of landscaping or grading scope?	The offsite import/export of fill is in BP3100. This wilbe clarified in Addendum 3.	Metcon	4/10/2025	BP3290	Cardinal
198	4.10.25	Scope	Electrical Metering 1. M-602 Control Points lists interface/monitoring points for Electrical Systems. 2. Specification 262413 lists Switchboard Metering Monitor points. Please clarify the responsibility (which contractor – Mechanical or Electrical) of providing and installing the associated metering device and/or open protocol communications interface card.	The meters are to be provided by the trade partner responsible for providing the system being metered. Electrical connections by BP2600.	Metcon		BP2600	Schneider Electric
199	4.10.25	Scope	Generator Metering 1. M-602 Control Points lists interface/monitoring points for Emergency Generator. 2. Specification 263213 lists Generator Metering Monitor points. Please clarify the responsibility (which contractor – Mechanical or Electrical) of providing and installing the associated metering device and/or open protocol communications interface card.	The meters are to be provided by the trade partner responsible for providing the system being metered. Electrical connections by BP2600.	Metcon		BP2600	Schneider Electric
200	4.10.25	Scope	Domestic Water Metering 1. M-602 Control Points lists interface/monitoring points for Domestic Water Metering devices. Please clarify the responsibility (which contractor – Mechanical, Electrical or Plumbing) of providing and installing the associated metering device, if the device is to be included on this project (unspecified on Plumbing Plans).	The meters are to be provided by the trade partner responsible for providing the system being metered. Electrical connections by BP2600.	Metcon		BP2600	Schneider Electric
201	4.10.25	Scope	Low Pressure Metering 1. M-602 Control Points lists interface/monitoring points for LP Gas Metering devices .Please clarify the responsibility (which contractor – Mechanical, Electrical or Plumbing) of providing and installing the associated metering device, if the device is to be included on this project (unspecified on Plumbing Plans)	The BP2200 has been revised to include all components of a turnkey LP system per the contract documents.	Metcon	4/11/2025	BP2600	Schneider Electric
202	4.10.25	Scope	Kitchen Hoods - KEF-1, MUA-1, KH-1,2 Controls 1. M-003 Kitchen Hood Schedule states "furnished and installed by the M.C." 2. M-003 Kitchen Hood Schedule states "The DCV Includes A Smart Controller, LCD Screen Interface, Duct Temperature Sensors, Room Temperature Sensor, Variable Frequency Drives." 3. M-003 Kitchen Hood Schedule states "BAS Shall Monitor Status and Frequency Hz of Kitchen Fans". Please clarify the responsibility of providing, installing and wiring the Kitchen Hood System (KEF-1, MUA-1, KH-1,KH-2) Controller, Control Devices, and sensors. Is the BAS responsibility to monitor status and frequency of kitchen fans only? Will the kitchen hood system be provided by manufacturer with LCD screen, sensors, VFDs, etc.?	BAS will monitor only.	SFL+a	4/14/2025	BP2600	Schneider Electric
203	4.10.25	Scope	Water Source Heat Pumps - Controls 1. Specification 238146 implies that the water source heat pumps will be supplied with temperature controls including motorized water valve, control board, thermostat, interface board, etc. by the equipment manufacturer. 2. M-002 Water Source Heat Pump Equipment Schedule calls for provision of "Schneider Electric Smart Structure WSHP controller". Please clarify if the Water Source Heat Pumps will be provided with factory controls by equipment manufacturer for interface (Bacnet) or if the intent is for the controls contractor to provide a controller (Schneider Electric Smart Structure type) for each heat pump and field installed, per the equipment schedule notes.	Water Source Heat Pumps to be provided with factory controls by equipment manufacturer for interface (Bacnet), monitoring points noted on M-602	SFL+a	4/14/2025	BP2600	Schneider Electric
204	4.10.25	Scope	Water Source Heat Pumps - Valves 1. Specification 238146 implies that the water source heat pumps will be supplied with temperature controls including motorized water valve, control board, thermostat, interface board, etc. 2. M-002 Water Source Heat Pump Equipment Schedule calls for provision of "Self balancing valve, ball valve and strainer as indicated on water source heat pump piping detail." 3. M-503, detail 1 shows ball valve on the water source heat pump return pipe and a combination valve on the water source heat pump supply side. Please clarify if the Water Source Heat Pumps will be provided by the equipment manufacturer with all hydronic valves (motorized control valves, isolation valves, ball valves, etc.). Or will the motorized isolation valves need to be provided by the mechanical/controls contractor?	This will be up to the Mechanical Contractor and the equipment supplier as to who will provide the necessary equipment to comply with spec	SFL+a	4/14/2025	BP2600	Schneider Electric
205	4.10.25	Scope	Water Source Heat Pumps – Supply/Return Water inline pumps 1. Details 1,6, and 14/15 on sheet M-503 show pumps on supply and return water piping for each WSHP. 2. Note 3 on HVAC equipment schedule, sheet M-002, says "mechanical contractor to provide starter w/ auxillary contacts". 3. Points list on M-602 shows BAS to control and monitor status for each circulator pump. Please clarify who provides the 208vac single phase motor starters for each circulator pump. Please clarify where the on/off and status points are controlled from (factory WSHP controller?, Field mounted BAS [Schneider Smart Struxure controller])?	Circulator Pumps should be controlled by WSHP controllers. Status to be monitored by BAS, this can be done directly from the pump or through unit controller (if available).	SFL+a	4/14/2025	BP2600	Schneider Electric

206	4.10.25	Scope	Lighting Controls/ BAS Override 1. M-601 Override Panel states "A Central Override Panel shall be located in the admin zone…. Software shall be programmed for fully functional override, to set hvac equipment, receptacles and lighting into occupied mode for a set period of time". 2. E-802 Lighting system description states "lighting controls are based on stand alone occupancy sensors and controls. Devices shall be independent and not tied into the bas system." Please clarify if the design intent is for the lighting control system to be standalone (not tied into the BAS).	There will not be any lighting controls interface with the BAS on this project. Override panel will only apply to HVAC Equipment, no Lighting or Electrical Receptacles controls/interface.	SFL+a	4/11/2025	BP2600	Schneider Electric
207	4.10.25	Scope	Electrical Load Side Wiring/ Final Connections 1. E-002 Electrical Coordination with Other Trades states "The Electrical Contractor shall connect and/or provide final connections to all equipment supplied by others applicable to the project, including but not limited to, Mechanical, Plumbing, Fire Protection and suppression…unless otherwise noted." 2. HVAC Bid Package Project Specific Scope Requirements for HVAC states "This subcontractor will complete the final connections". Please clarify if EC is meant to provide load side power and final connections for HVAC equipment.	Electrical final connections are to be completed by BP2600.	Metcon	4/10/2025	BP2600	Schneider Electric
208	4.10.25	Scope	Starters, Disconnects, Variable Frequency Drives 1. E-002 states "All Starters, other than manual starter switches, shall be provided by others and installed by the electrical contractor".HVAC 2. Bid Package Project Specific Scope Requirements for HVAC states "subcontractor agrees to coordinate with Electrician for equipment requiring disconnects boxes, starters, VFDs, etc. and energizing of equipment." Please clarify if the responsibility of loose starters, disconnects and VFDs for HVAC equipment are provided under the EC or MC scope of work. Which bid package is to include starters, disconnects, and VFDs for mechanical equipment?	The coordination is required by all trade partners for integration with thie scope of work. Providing of the components are by the trade partner responsible for providing the specific system.	Metcon	4/11/2025	BP2600	Schneider Electric
209	4.10.25	Scope	Dampers 1. Mechanical Ductwork Plans show Dampers in the Outside Air Duct to Water Source Heat Pumps. 2. M-002 WSHP Equipment Schedule Note 10 calls for provision of Demand Control Ventilation Controls where indicated for OA Flow/ Damper Control indicated by 'DCV'. 3. M-502 detail 6 and detail 7 show Outside Air Duct with Motorized Damper or Air Flow Monitoring Station for Water Source Heat Pumps. Please clarify the responsibility of the provision of loose dampers. Are these provided by equipment manufacturer w/ equipment of provided loose for field installation?	The dampers are to be provided by the trade partner responsible for providing the system being metered. Electrical connections by BP2600.	Metcon	4/11/2025	BP2600	Schneider Electric
210	4.10.25	Scope	I just wanted to confirm that you guys are getting pricing for the Geothermal Wellfield and all the exterior piping for this and we can exclude this from our scope of work. According to drawing M-503 detail 9, it looks like we take over the piping after the pipe leaves the manifolds. Thanks for your help with this.	Refer to BP2351 for Geothermal scope of work	Metcon	4/10/2025	BP2300	Humphrey Mechanical
211	4.10.25	Specifications	Section 116643, 2.1.B lists Nevco as basis of design. Can scoreboards by other manufacturers be bid? We request Fair-Play be allowed as equal. Please advise what we would need to submit to be approved.	Additional manufacturers (including Fair-Play) will be provided in Spec updates for Addendum 3.	SFL+a	4/11/2025	BP1166	Time Technologies
212	4.10.25	Specifications	Section 116643, 2.1.B model 2700. This model does not have the fouls panel that shows player fouls described in 2.2.A. Do they actually want the model 2750 instead?	B.O.D. model will be Nevco 2710, spec will be updated in Addendum 3.	SFL+a	4/11/2025	BP1166	Time Technologies
213	4.10.25	Specifications	Section 116643, 2.1.A.1 gives the scoreboard size as 8 x 3, which does match the model 2700. However, below that in 2.2.A.3.a the spec lists captions that are not found on the model 2700. The size indicates a 2700, the captions mentioned would required a 2750 which is a larger board. Please advise.	Scoreboard size will be 5'x8' and will be updated in specs for Addendum 3.	SFL+a	4/11/2025	BP1166	Time Technologies
214	4.10.25	Specifications	Section 116643, 2.2.A also mentions rear lit caption plates or electronic team names. You can only put one of these options on the board as they occupy the same space. Which one do you want quoted? Should either these options be in the base bid?	Rear lit caption plates to be used, conflicting information to be removed from spec in Addendum 3.	SFL+a	4/11/2025	BP1166	Time Technologies
215	4.10.25	Specifications	Section 116643, 2.2.A.6 specifies advertising team logo areas on the scoreboards. None of the scoreboards in the Nevco series 2700 have spaces to accommodate team logos on the scoreboards. Please advise.	This will be removed from spec in Addendum 3.	SFL+a	4/11/2025	BP1166	Time Technologies
216	4.10.25	Specifications	Section 116643, 2.4. ACB list two different model numbers for the control, MPCX and MPCW. Which one do they want?	MPCW control to be provided, spec will be updated in Addendum 3.	SFL+a	4/11/2025	BP1166	Time Technologies
217	4.10.25	Specifications	Drawing A-413. If you blow up the drawing you can see the features of the scoreboard on the wall. The scoreboard pictured does NOT match the 2700 or the 2750. The scoreboard pictured DOES have the corner logo spaces mentioned in the specs. This feature can be found on several Daktronics and Fair-Play scoreboard models but not in the Nevco 2700 series scoreboards. Please advise.	The scoreboard on A-413 is a placeholder. Details shown on its surface are for reference only and are not a visual of final basis of design.	SFL+a	4/10/2025	BP1166	Time Technologies
218	4.10.25	Specifications	Are any outdoor scoreboards required for this project? There were indicators of existing scoreboards on the fields in some of the drawings. Will these scoreboards be replaced?	No	SFL+a	4/10/2025	BP1166	Time Technologies

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219	4.10.25	Drawings	Please provide descriptions for the red highlighted areas in attachment. See Exibit A	The red is highlighting multiple elements. The horizontal to the left of the yellow highlight is coping on top of kitchen area. Horizontal under the yellow highlight is top of the screen wall. The red box circling the blue and yellow is concrete pad on the ground of the receiving area. See A-112, A-116, A-201, & A-202 for clarification of these areas highlighted.	SFL+a	4/10/2025	BP0750	Martin Roofing
220	4.10.25	Drawings	Please provide descriptions for the blue and yellow highlighted areas in attachment. See Exibit A	Blue: Element of structural model. Yellow: Dumpster placement from civil. Both have been masked out of A-130 for clarity.	SFL+a	4/10/2025	BP0750	Martin Roofing
221	4.10.25	Drawings	Almost every roof edge and flashing detail blowups are misplaced or incorrect. Please Revise every wall section page.	No.	SFL+a	4/10/2025	BP0750	Martin Roofing
222	4.10.25	Drawings	FMS 1 is incorrectly called out on Elevation 1/A201. Please Revise.	This is not incorrect. This is a turn-down from the roof and continuation of soffit.	SFL+a	4/10/2025	BP0750	Martin Roofing
223	4.10.25	Drawings	What is the ½ overlay board shown. EX: 8/A532 or 3/A522	See 2.2 C in spec 072216.	SFL+a	4/11/2025	BP0750	Martin Roofing
224	4.10.25	Darwings	What is the 1" board insulation shown. EX: 3/A521	See 2.2 A 7.B in spec 072216.	SFL+a	4/11/2025	BP0750	Martin Roofing
225	4.10.25	Scope	Which bid package has the Galvanized bearing plats and HSS Tubes? HSS Tubes? 3/A523	THis is included in BP0510 and clarified in Addendum 3.	Metcon	4/10/2025	BP0750	Martin Roofing
226	4.10.25	Scope	Please clarify which bid package provides and installs Metal studs behind wall panels. BP 0790 - Include all required metal stud framing for metal wall panel and metal soffit installations required by others. BP 0740 - 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, weatherstripping, fasteners and anchors, clips, **all** insulation, shims, spacers, and all other incidental items required for a complete and weather-tight system. (Addendum 2)	Wall framing is included in BP0920.	Metcon	4/10/2025	BP0750	Martin Roofing
227	4.10.25	Scope	Please clarify which bid package has rough carpentry. The specification is included in BP 0790 but not included in BP 0740.	BP0920 is responsible for rough carpentry.	Metcon	4/10/2025	BP0750	Martin Roofing
228	4.10.25	Drawings	How is the 16 GA angle attached? 12/A521	See 1.4 B and D under spec section 054000. Design for cold formed framing is to be by an engineer. Scoping is by Metcon.	SFL+a	4/11/2025	BP0750	Martin Roofing
229	4.10.25	Drawimgs/Scope	What is the Gauge /Material of 3x3" metal angle? Is this owned by the wall panel scope? 12/A521	See 1.4 B and D under spec section 054000. Design for cold formed framing is to be by an engineer. Scoping is by Metcon.	SFL+a Metcon	4/11/2025	BP0750	Martin Roofing
230	4.10.25	Drawings	There is no air barrier shown behind the spray foam but it is specd and scoped. Please revise details.	The spray foam is the air barrier. See spec section 072119.	SFL+a	4/11/2025	BP0750	Martin Roofing
231	4.10.25	Scope	What is the intumescent coating show outside of the spray foam. No spec. Is this responsibility of wall panel scope?	Refer to spec section 07 21 13	Metcon	4/10/2025	BP0750	Martin Roofing
232	4.10.25	Scope	Which bid package owns the metal angle above the spray foam? 13/A521	Spray foam is to be carried by BP0420.	Metcon	4/11/2025	BP0750	Martin Roofing
233	4.10.25	Scope	Construction Metal Products is in the metal roofing spec but not the flush wall spec or soffit spec. Will they be an acceptable alternate for the flush panel?	The deadline for pre-bid substitution requests has passed, however, subcontractors may submit formal substitution requests after award of bid package.	Metcon	4/10/2025	BP0750	Martin Roofing
234	4.10.25	Specifications	Manufacturers are listed in the sheet metal specs but fabrication is mentioned as well. Do copings/ Fascias need to be prefabricated from listed manufacturers? Or can they be shop fabricated?	They can be shop fabricated but must meet all specifications and fabricator must meet all qualifications.	SFL+a	4/11/2025	BP0750	Martin Roofing
235	4.10.25	Specifications	Manufactured Gutters and Downspouts have no listed manufacturers. Can these be shop fabricated?	They can be shop fabricated but must meet all specifications and fabricator must meet all qualifications.	SFL+a	4/11/2025	BP0750	Martin Roofing

236	4.10.25	Specifications	Pipe supports are listed in specs but not shown in drawings. Please clarify if there is a need for pipe supports. If so, is this the responsibility of roofing scope?	If pipe supports are needed they are the responsibility of the trade partner providing the pipe.	Metcon	4/11/2025	BP0750	Martin Roofing
237	4.10.25	Scope	In the scope for General Trades it lists a forklift that goes a minimum of 135'. I've gotten responses from several vendors that informed me the Forklifts do not go that high. Are you all thinking of another piece of equipment?	This has been revised from 135' to a minimum 36' forklift in Addednum 3.	Metcon	4/11/2025	BP0170	Classic Cleaning
238	4.10.25	Scope	For the Street Sweeper, would you recommend a 4-wheeled standard Street Sweeper, or a 3-wheeled towable Sweeper?	This is to be determined by bidder.	Metcon	4/10/2025	BP0170	Classic Cleaning
239	4.10.25	Scope	For the Conex Containers. What does it mean when the scope states 48 units, 1 Conex for each month? I thought the project duration had been shortened to 18 months. Will they need a container every month, instead of utilizing the same container each month?	The same container may be used through out the duration of the project.	Metcon	4/11/2025	BP0170	Classic Cleaning
240	4.10.25	Specification	Section 23 21 13.33 Titled Ground Loop Heat Piping Part 1 – (1.3 - A.) States the piping will withstand the minimum of 160 PSI. The specified SDR11 piping is pressure rated at 200 psi. The geothermal system pressure testing is specified at 80 PSI. Please confirm the system's operating pressure of </=80 PSI.	Correct, operating pressure of </=80 PSI	SFL+a	4/14/2025	BP4816	ARM
241	4.10.25	Specification	Section 23 21 13.33 Titled Ground Loop Heat Piping Part 2 – (2.2 B.) Drawing M-010 states the grout conductivity of 1.55 BTU/h x sq. ft. x deg F, but under the Ground Loop Heat Piping Section, it specifies 1.20 BTU/h x sq. ft. x def F. It appears that the 1.55 value is the actual tested ground thermal conductivity, not the grout requirement. Please confirm >/= 1.20 BTU is the correct thermal conductivity.	Correct, 1.20 BTU/h x sq. ft. x def F is the correct thermal conductivity for the grout. 1.55 is the ground thermal conductivity.	SFL+a	4/11/2025	BP4816	ARM
242	4.10.25	Specification	Section 23 21 13.33 Titled Ground Loop Heat Piping Modern NCDEQ Approved grouts utilize graphite instead of sand in their mixtures. Please confirm graphite based grout is acceptable.	Graphite based grout is acceptable.	SFL+a	4/14/2025	BP4816	ARM
243	4.10.25	Specification	Section 23 21 13.33 Titled Ground Loop Heat Piping Part 3 – (3.2 B.) Backfill to 18 Inches above pipe with mud developed from excavated rock-free soil or with sand, pea gravel, or fly ash. Backfill from slurry level to grade with excavated soil, compacting as specified for pipe burial in Division 31 Section "Earth Moving". Mud slurry is not compactible. Clean rock-free excavated soil will be used for backfill to a depth of 18" above the piping. No mud slurry will be used. Please acknowledge that mud is not required in the backfill.	Mud is not required	SFL+a	4/15/2025	BP4816	ARM
244	4.10.25	Specification	Section 23 21 13.33 Titled Ground Loop Heat Piping Part 3 – (3.2 C.) Extend pipe from trench onto the bottom of the body of water at an elevation that is at least 12" below front line. Seal membrane or impervious liner under the body of water after installing piping. Frost line is not existing at the job site. Therefore, sealing membranes will not be included in this project. Please confirm/acknowledge.	Sealing Membranes will not be required	SFL+a	4/16/2025	BP4816	ARM
245	4.10.25	Scope	F. Project Specific Scope Requirements (14.) – Include $50,000 allowance to provide three (3) new well and pump locations per the Logistics Plan. One (1) of the three well systems will be for the exclusive use as water source for geothermal scope. Coordinate with electrical subcontractor for power to the well/pumps. Provide water trucks as a source of water for drilling if the well is not available. Please confirm anticipated water well depths, diameters, and pump/tank specifics.	The allowance covers the cost based on what the geothermal sub determines is required to perform the work.	Metcon	4/11/2025	BP4816	ARM
246	4.10.25	Scope	F. Project Specific Scope Requirements (15.) – Antifreeze solution per spec. Please confirm that these are water only geothermal loops. Other than sanitizing utilizing approved chlorine solutions, no other additives will be required, correct?	No antifreeze solution in geothermal loops. Only a rust inhibitor additive will be necessary at fill of system.	SFL+a	4/15/2025	BP4816	ARM

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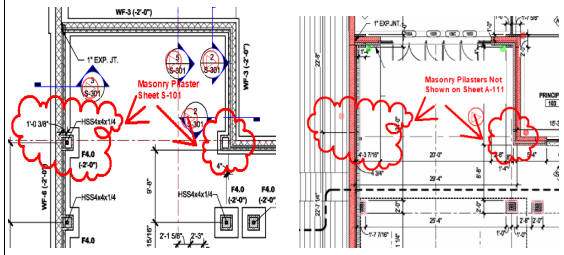
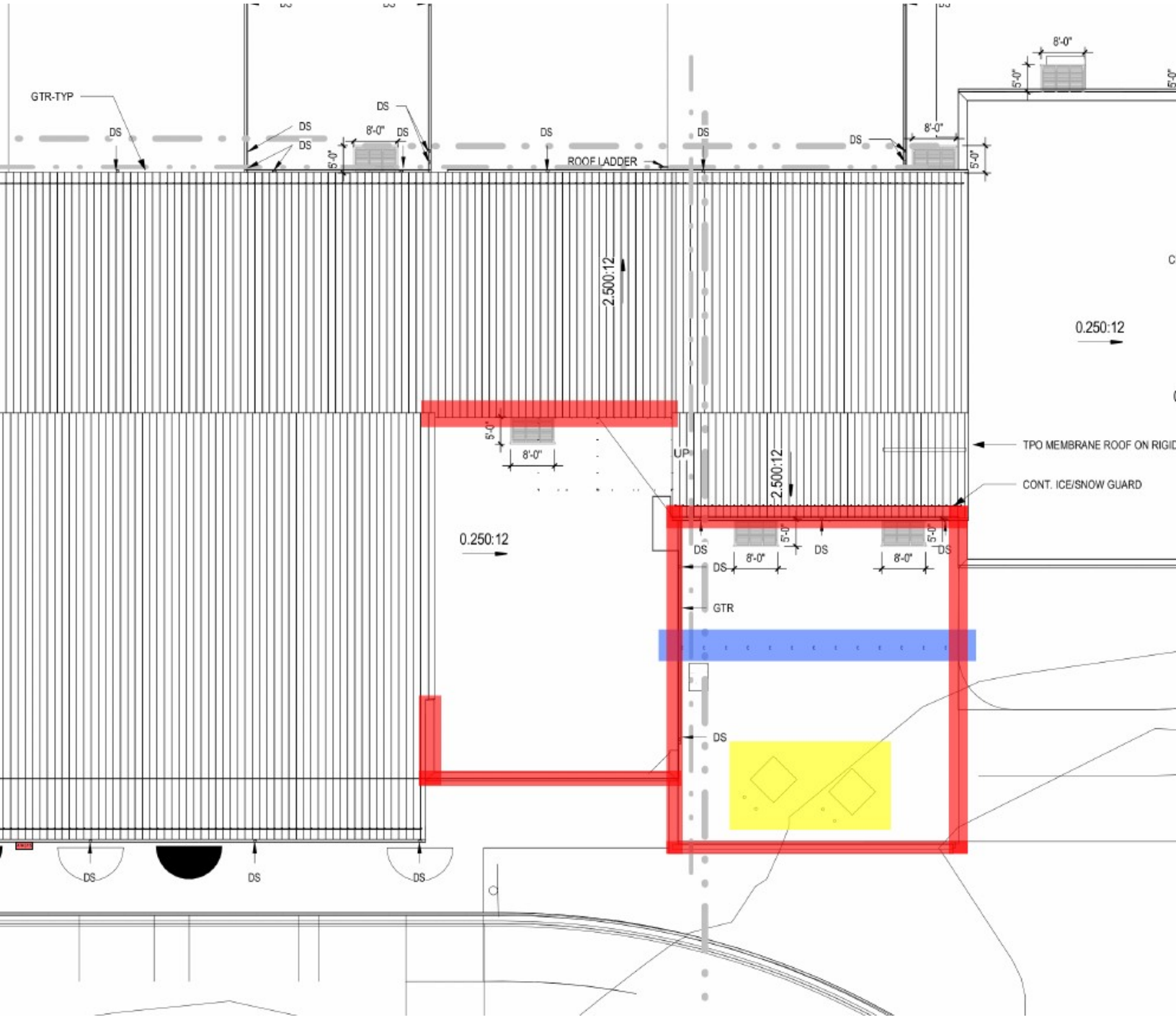
247	4.10.25	Specifications	Identification For HVAC Piping and Equipment Part 2 – Products (C) – Pipe Label Color Schedule calls for Green piping with white lettering. Geothermal wellfield buried piping is manufactured black with white lettering. Confirm that standard Black HDPE geothermal piping is acceptable.	Pipe Labeling Specification does not apply to in-ground geothermal wellfield piping.	SFL+a	4/10/2025	BP4816	ARM
248	4.10.25	Drawings	E. B. Frink Middle School - Bid package #0420 Turnkey Masonry - RFI #9: Masonry Pilaster indicated on Sheet S-101 but not shown on A-Sheets (see snippets below). No elevation view provided. What is the intent? 	Column wraps added to architectural to match what structural has. Will be updated in A-111.	SFL+a	4/11/2025	BP0400	JB Overman Masonry
249	4.10.25	Scope	Is RB3 (Vented base) to be included in this package or athletic floor?	Rubber floor base is in BP0950	Metcon	4/11/2025	BP0960	Commercial Flooring
250	4.10.25	Drawings	Can a shower detail be provided that shows what type of trim there needs be where the wall tile ends?	Provide Schluter Schiene trim unit at top open edges and outside open corners per specification 09 30 00 section 2.2B.	SFL+a	4/15/2025	BP0930	Commercial Flooring
251	4.10.25	Drawings	Also, could it show a transition detail between shower floor tile and resinous flooring?	Provide Schluter Schiene trim unit at shower floor tile to resinous flooring transition.	SFL+a	4/16/2025	BP0930	Commercial Flooring
252	4.11.25	Drawings	Site logistics shows path around the building. Will MSP be able to set up crane for hollow core installation between 300, 400 and 500 wings- the logistics plan shows the drive, will we be able to get the crane in the area between the drive and the buildings for all areas.	Yes, the areas between the classroom wings is available for crane access.	Metcon	4/11/2025	BP0340	Mid South Prestress
253	4.11.25	Specifications	In the Preconstruction meeting it was stated that Bid Bond was 10%- the Bid Form shows 5% Bid Bond- please clarify. Is a Bid Bond acceptable on the form that our surety uses?	10% is correct please see addendum.	Metcon	4/11/2025	BP0340	Mid South Prestress
254	4.11.25	Specifications	Confirm costs for P&P Bond to be included in the proposal	Yes, please see bid maual for instructions to bidders	Metcon	4/11/2025	BP0340	Mid South Prestress
255	4.11.25	Specifications	Confirm Prevailing Wage Rates required	No	Metcon	4/11/2025	BP0340	Mid South Prestress
256	4.11.25	Specifications	MSP performs all onsite work with our own labor. There will be rental equipment which I do not believe will affect MSP submitting Affidavit B- please confirm	Affidavit B – requires 100% labor force, it does not include materials or equipment. It is strictly labor only to submit Form Part B	Metcon	4/11/2025	BP0340	Mid South Prestress
257	4.11.25	Drawings	Please confirm the location of opening #217 on the door schedule on sheet A-601.	217 has been removed. Was a duplicate door.	SFL+a	4/11/2025	BP0810	Martin Architectural
258	4.11.25	Drawings	Opening #607 for the Fire Pump room on sheet A-116 is marked as being a wood door on an exterior wall. Please confirm if this opening should be quoted as insulated hollow metal to match opening #602B.	607 material changed to Insul HM. Change reflected on A-601.	SFL+a	4/11/2025	BP0810	Martin Architectural
259	4.11.25	Scope	Please confirm if the scope of work BP #0810 is responsible for the aluminum frames for the FRP doors or if the scope is for the doors only with all aluminum frames by others.	Doors only	Metcon	4/11/2025	BP0810	Martin Architectural
260	4.11.25	Spec/Scope	Will the FRP doors require factory installed glass or will that be provided and installed by BP #0840?	No factory installed glass. This should be provided and installed by glazing.	SFL+a/Metcon	4/11/2025	BP0810	Martin Architectural
261	4.11.25	Scope	BP #0810 Part F/4 includes the provision of temporary doors at exterior openings, excluding aluminum doors and frames. Please confirm if we are to exclude providing temporary doors at the exterior FRP door locations as the FRP doors are in our scope but the aluminum frames are not.	If temp doors are required at FRP door locations they are to be provided by BP0810.	Metcon	4/11/2025	BP0810	Martin Architectural
262	4.11.25	Drawing	Please confirm that there are no steel lintels in the exterior brick that will need to be painted?	There are lintels that will need to be painted. See strucutral and sheet a-501	SFL+a	4/11/2025	BP0990	Creech's Painting

263	4.11.25	Drawing	Please confirm that the pipe bollards do not need to be painted?	Yes, yellow as specified.	SFL+a	4/11/2025	BP0990	Creech's Painting
264	4.11.25	Drawing	Please confirm that the galvanized stairs and railings shown on the plans do need to be painted per Scope of Work and Specs?	No, paint is not required.	SFL+a	4/11/2025	BP0990	Creech's Painting
265	4.11.25	Drawing	Please confirm that the aluminum frames and exterior canopies do not need to be painted? There is a painting spec for aluminum in the Painting Specs.	That is correct. They should be shop finished.	SFL+a	4/11/2025	BP0990	Creech's Painting
266	4.11.25	Specifications	The 123216 spec calls for cabinet backs with ½" particleboard. Please confirm if ¼" MDF Cabinet Backs are acceptable.	No. Install per specification.	SFL+a	4/11/2025	BP1230	Stevens
267	4.11.25	Specifications	The 123216 spec calls for drawer bottoms with ½" prefinished hardboard. Please confirm if ¼" MDF Drawer Bottoms are acceptable.	No. Install per specification.	SFL+a	4/11/2025	BP1230	Stevens
268	4.11.25	Scope	Please reference BP1011, Item F – 1, notes subcontractor to provide and install projector screens, TVs, and TV mounts. Please confirm subcontractor is to provide and install these items. Typically these are owner provided, if not please provide specs.	Projectors, screens, TVs and mounts will be by Owner. Contract documens will be revised in Addednum 3.	Metcon.	4/11/2025	BP1011	Martin Architectural
269	4.11.25	Scope	Please reference BP1011, Item F – 17, 18, and 19 notes signs, sign bases, and braille letters for signs are to be supplied. Please confirm this is needed for BP1011 and not for BP1014 Signage.	BP1011 will be revised in Addednum 3 to remove items F.17 - F.19. These signage items are covered in BP1014.	Metcon.	4/11/2025	BP1011	Martin Architectural
270	4.11.25	Scope	Please reference BP1020, Item E – 7, notes Kilns and Pottery Studio Equipment, there is no spec section in the bid manual. On page A-112 states kiln is provided and installed by owner; please confirm.	Kiln is NIC and by Owner. This has been updated and will be revised in Addendum 3.	Metcon.	4/11/2025	BP1011	Martin Architectural
271	4.11.25	Scope	Dampers 1. Mechanical Ductwork Plans show Dampers in the Outside Air Duct to Water Source Heat Pumps. 2. M-002 WSHP Equipment Schedule Note 10 calls for provision of Demand Control Ventilation Controls where indicated for OA Flow/ Damper Control indicated by 'DCV'. 3. M-502 detail 6 and detail 7 show Outside Air Duct with Motorized Damper or Air Flow Monitoring Station for Water Source Heat Pumps. Is an air flow measuring station device required for outside air on applicable WSHPs?	For units indicated with DCV yes, some means of airflow measuring will be necessary to modulate damper(s) from MIN to MAX airflow setpoint(s)	SFL+a	4/14/2025	BP2600	Schneider Electric
272	4.11.25	Scope	Drawings show foamed in place insulation at/ below grade level. Is this below grade SPF specifically in the mason's package or dependent on the cladding, brick or metal panel, that occurs directly above it?	The scopes have been revised to include all spray foam insulation to be provided by BP0420.	Metcon	4/11/2025	BP0790	JT Murphy
273	4.11.25	Scope	BP 420 Turnkey Masonry states in scope of work #45a that we are to "...install block steel lintels (of all weights and lengths) set in or bearing onto masonry...". Does that mean the mason installs the W16 x 40 steel lintels shown on the Load Bearing/Exterior Lintel Schedule on sheet S-401?	Yes	Metcon	4/11/2025	BP0400	Brodie
274	4.11.25	Scope	Who is responsible in furnishing and installing "Construction Fence"	Construction fence is included in BP3100	Metcon	4/11/2025	BP3100	Barnhill
275	4.11.25	Scope	On Addenda #1 on page 8 of 10 item 3 address subcontractor purchasing right of way permits, taps fees, misc. fees, curb cut permits, city insurance and roadway bonds. What subcontractor is involved? Is it the grading contractor? Normally this material is taken care of and paid by owner, county or school. Please clarify who purchases any permits, fees, insurance and bonding of NCDOT roadway. This is a big expense for a grading contractor to purchase.	This will be removed from BP3100 in Addendum 3.	Metcon	4/11/2025	BP3100	Barnhill
276	4.11.25	Scope	Scope of work/Section F/ #'s 17-19 – Calls out material for signage. Should this be included in this bid package?	BP1011 will be revised in Addednum 3 to remove items F.17 - F.19. These signage items are covered in BP1014.	Metcon	4/11/2025	BP1011	Manganaro
277	4.11.25	Scope	Scope of Work states we are to include pricing for spec section 119515 – KILNS & Pottery Studio Equipment, however the specification section is not included in the bid manual. Please advise.	Kiln is NIC and by Owner. This has been updated and will be revised in Addendum 3.	Metcon	4/11/2025	BP1020	Manganaro
278	4.11.25	Drawings/Specs	For the Acoustical Ceiling Tile and Grid it is called out on the Interior Finish Legend as Armstrong Calla, then called out as Armstrong Ultima or Equal on the specifications. Could you please confirm what is to be priced?	Armstrong Calla will be the BOD. Specifications will be changed.	SFL+a	4/14/2025	BP0950	Heartland Acoustics

279	4.11.25	Drawings	What is the gray shaded glazing to the left and right of the door at SF27?	All panels in SF27 changed to be IG2L. See A-611.	SFL+a	4/14/2025	BP0840	NC Glazing
280	4.11.25	Drawings	Which of the 3 mirrors, FMIR, MIR and MIR2 are frameless?	FMIR, MIR, and MIR2 are framed per Toilet Accessory Legend on A-401 and specification 10 28 00. Tempered mirrors in Chorus 604 should reference specification 08 83 00.	SFL+a	4/15/2025	BP0840	NC Glazing
281	4.11.25	Drawings	Where is SF26 located?	SF26 tag added to its placement on sheet. See A-112 at room 214D Office.	SFL+a	4/14/2025	BP0840	NC Glazing
282	4.11.25	Drawings	Drawing A-501 (Details 1,3, and 7) states that continuous Spray foam insulation is required for the below-grade masonry cavity. Typically we install rigid insulation and grout in the cavity. Is spray foam insulation required for the below-grade masonry cavity?	Yes. Install as detailed.	SFL+a	4/14/2025	BP0400	Vega

END Addendum 3


GTR-TYP
DS
8'-0"
5'-0"
ROOF LADDER
2.500:12
0.250:12
TPO MEMBRANE ROOF ON RIGID
CONT. ICE/SNOW GUARD
UP
GTR

Appendix A