

Pender County K8 School

August 25, 2024

Project Name

CM Clarification #2

Date: August 25, 2024

Project: **Pender County K8 School**

The following items modify, add to or delete from the contract documents, plans and specifications dated August 02, 2024, and bid manual, dated August 05, 2024, for this project. Acknowledge receipt of this CM Clarification in your proposal. Failure to do so may result in the disqualification of your bid. Wherein this Clarification varies or is in conflict with the Contract Documents, the requirements of this Clarification shall govern. In all other particulars, the requirements of the original Project Manual and Contract Documents, including any previous Addenda or Clarifications, shall govern.

This clarification consists of **18** items, **05** attachments, **33** sheets (8.5x11) and **00** sheets (11 x 17)

GENERAL and CLARIFICATION:

Item 01: Addendum 02

Addendum 02 was issued on 25 August 24

Item 02: Additional Approved Bidders

The following subcontractor has been added as an "approved bidder:"

BP-21A Fire Protection Odyssey Fire LLC

Item 03: Scope Clarification – BP-03A Concrete

RFI inquiry: Scope Clarification, Portal Frame Concrete: Please advise which trade is responsible for the elevated CIP walls associated with portal frames; ref: 11/S5.3.1, 2/S5.3.3 & 3/S5.5.4

CM Response: BP-03A is responsible for the CIP concrete; BP-04A is responsible for reinforced CMU

Item 04: Scope Clarification – BP-08A Aluminum Storefronts & Glazing

RFI inquiry: Dwgs. A4.2.1, A4.1.4 & A3.1.3 Storefront Elevations: Please confirm location of Elevations 11, 12 & 13 to be in the ES Gym

CM Response: Yes, these elevations are located in the ES Gym

Item 05: Scope Clarification – BP-08C Doors & Hardware

RFI inquiry: 087100 Door Hardware: Please provide hardware set # for doors D108A, D108B, F108B, F108C, F113A & F116

CM Response: Revised Door Hardware section will be issued in Addendum #2

RFI inquiry: 087100 Door Hardware: Please provide hardware set # for Doors A144A, A144B, A148B, A152, A153, B107, C127, C128, C226, D108A, D108B, D220, E227, F108B, F108C, G123, G219A, H125A, and H204A

CM Response: Revised Door Hardware section will be issued in Addendum #2

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Item 06: Scope Clarification – BP-09A Drywall

RFI inquiry: **Dwg A3.2.1, Exterior Window MCM Surrounds:** Detail 14 shows wood blocking at the MCM panel joints; what does the blocking attach to?

CM Response: Details will be updated as required

RFI inquiry: **Dwg A3.2.1, Exterior Window MCM Surrounds:** Head Details 10 & 14 indicate a caulk joint between brick and top of MCM; recommend the brick flashing be raised 1 course in Detail 14 applications (similar to Detail 10) as it appears to interfere with the panel joint caulking. Please advise

CM Response: Details will be updated as required

RFI inquiry: **Details 1&3/A4.2.2, Note 23:** Please confirm AWP secures direct to CMU walls and does not require a GWB or wood substrate

CM Response: Per the spec, it's either ¾" Z-clips or 1 ¼" interlock mounting system

RFI inquiry: **Column Wraps:** Please confirm the round columns in A175, 176 & 179 are painted exposed; aluminum wraps are not required

CM Response: Painted exposed steel is correct

Item 07: Scope Clarification – BP-09C Acoustical Ceilings

RFI inquiry: **095100-2.04 Acoustical Clouds/Canopies:** Spec references "Auditorium"; however, there is no auditorium. Please advise where this product is required or delete from spec

CM Response: This product is not required and will be deleted from the spec

RFI inquiry: **Dwg. A9.1.2 RCP, Room B115 and A3.0.1 Finish Schedule:** RCP indicates a suspended ceiling; however, Finish Schedule shows EXPC. Please amend Finish Schedule to reflect a suspended ceiling

CM Response: This will be revised and reissued in Addendum #2. ACP-1 is correct

RFI inquiry: **Dwg. A9.1.3 RCP, Stairs C201 and A3.0.1 Finish Schedule:** RCP indicates a suspended ceiling; however, Finish Schedule shows EXP-PT Please amend Finish Schedule to reflect a suspended ceiling

CM Response: This will be revised and reissued in Addendum #2. ACP-1 is correct

Item 08: Scope Clarification – BP-09E Resin Flooring

RFI inquiry: **Scope Clarification, Testing Requirements:** Please clarify moisture testing requirements

CM Response: Scope Item 7.i-ii is modified to read "Perform testing of sufficient quantity to verify suitability to proceed with installation"; delete Item 7.1-11-1 200 sf requirement. Intent of testing is to responsibly determine if MVT is required

Item 09: Scope Clarification – BP-09I Epoxy Resin Terrazzo Flooring

RFI inquiry: **Scope Clarification--Resin Matrix Terrazzo Flooring, Moisture Vapor Treatment, Scope Item 7.d:** Spec 096623-2.04.G appears to require 100% MVT coverage which would be redundant per allowance; please clarify

CM Response: Provide MVT which dictated by testing via the stated allowance

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RFI inquiry: **Scope Clarification--Resin Matrix Terrazzo Flooring, Allowance #01, MVT:** Stated allowance greatly exceeds current estimated terrazzo quantities; please clarify if this allowance is to be reduced

CM Response: Stated allowance will be reduced to 25,000 sf; attached Bid Form and Bid Scope have been updated

RFI inquiry: **Scope Clarification, Testing Requirements:** Please clarify moisture testing requirements

CM Response: Scope Item 7.i-ii is modified to read "Perform testing of sufficient quantity to verify suitability to proceed with installation"; delete Item 7.1-11-1 200 sf requirement. Intent of testing is to responsibly determine if MVT is required

Item 10: Scope Clarification – BP-10A Specialties

RFI inquiry: **113013 & Dwg A8.1.2--Residential Appliances:** Dwg. indicates appliances (Refrigerator, Dishwasher, Waste Disposal & Microwave) are NIC; however, spec section indicates these appliances are in base bid. Please advise which is correct

CM Response: Spec is correct; above referenced appliances are in the contract

RFI inquiry: **115213.2.01-B Projection Screens:** Spec indicates projection screen located in Auditorium which does not exist; please advise

CM Response: There is no auditorium in the project; this will be revised in Addendum #2

RFI inquiry: **113013 Residential Appliances:** Please provide BOD for undercounter refrigerator; not referenced in spec

CM Response: Basis of Design undercounter refrigerator has been added to the spec. A revised spec will be issued in Addendum #2

Item 11: Scope Clarification – BP-11B Food Service Equipment

RFI inquiry: **114000-4.0-Item 01-J, Cold Storage Assembly:** Specs call for a redundant refrigeration system for both cooler and freezer compartments; please confirm this is required or should be deleted due to significant added cost

CM Response: This will be further clarified in Addendum #2

Item 12: Scope Clarification – BP-12A Window Treatments

RFI inquiry: **Window Treatments:** Please advise if Extended Learning Spaces D216, E215, H211 & G211 receive manual shades; please confirm these shades to be single or double as both options are specified

CM Response: These locations will be further clarified in Addendum #2

Item 13: Scope Clarification – BP-23A Mechanical

RFI inquiry: **232113 Hydronic Piping:** Please advise if polypropylene piping and fittings can be used above grade

CM Response: Polypropylene piping and fittings may only be used below grade. Polypropylene piping and fittings shall not be used above grade.

RFI inquiry: **M2.11.1 Area C Ductwork, 2nd Floor, Room C216:** Please provide continuation of ductwork (20x20, 12x14 & 36x20) leaving C216 which turns up into

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CM Response: Penthouse space; appears Dwg A2.17.1 may have been omitted from Set. Drawing M2.17.1 added in Addendum #1 showing continuation of ducts.

RFI inquiry: **M2.11.1 Area C Ductwork, 2nd Floor:** Please provide continuation of MS Art Room C203 22x18 and 12x12 ductwork which returns up to Penthouse

CM Response: Drawing M2.17.1 added in Addendum #1 showing continuation of ducts.

RFI inquiry: **M2.11.1 Area C Ductwork, 2nd Floor:** Please provide continuation of MS STEM Lab C204 return grilles (near entry door; R1/725) ductwork which returns up to Penthouse

CM Response: Drawing M2.17.1 added in Addendum #1 showing continuation of ducts.

RFI inquiry: **Missing Drawing:** Please provide Drawing M2.17.1; it was not included in Addendum 01

CM Response: Drawing M2.17.1 will be issued in Addendum #2

RFI inquiry: **Scope Clarification--**Please confirm which trade makes final electrical connections between disconnects and equipment; appears to be duplicated between BP-23A & BP-23C

CM Response: BP-23C shall make these connections per Scope Item 8.e.ii.3; BP-23A Scope Item 9.b.3 will be amended to read as such

Item 14: Scope Clarification – BP-23C HVAC Controls

RFI inquiry: **Scope Clarification--**Please confirm which trade makes final electrical connections between disconnects and equipment; appears to be duplicated between BP-23A & BP-23C

CM Response: BP-23C shall make these connections per Scope Item 8.e.ii.3; BP-23A Scope Item 9.b.3 will be amended to read as such

RFI inquiry: **Sensors:** There are no sensors shown for AHUs in Area H; please confirm quantity per room; assumption is one, similar to other areas

CM Response: Yes, these will be added into Addendum #2

RFI inquiry: **M6.2-C.3.b Boiler Plant Control Sequence of Operation--Flow Meter:** Sequence references a HW Loop Flow Meter; however, meters are not shown on the schematic. Please advise if flow meter is required

CM Response: Flow meter will be added into Addendum #2

RFI inquiry: **M6.2-E Boiler Plant Control Sequence of Operation--Phase Loss:** Is Phase Loss provided with the chillers and boilers or is this a separate monitor that is required?

CM Response: Phase loss shall be integral to each piece of equipment. The BAS will not monitor. These sections have been removed in Addendum #2

RFI inquiry: **M6.2-E Boiler Plant Control Sequence of Operation--Emergency Stop and CO Monitoring:** Please advise if an emergency stop and/or CO monitoring is required for the boiler system

CM Response: Emergency stop has been added to the electrical details in Addendum #2. CO

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Monitoring is already included on the fire alarm system

Item 15: Scope Clarification – BP-26A Electrical

RFI inquiry: **Scope Clarification:** Which trade provides the VFDs for the mechanical equipment, especially HWP-1 & 2 and CHWP-1 & 2?

CM Response: BP-23C HVAC Controls is to provide per Scope Item 8.A.VI

RFI inquiry: **Scope Clarification:** Specs 263213, 264113 & 275227 reference "Alternates" not listed elsewhere in specs, scope & bid form; please advise

CM Response: Strike these references; provide generator, lightning protection and 2-way Comm systems as Base Bid

RFI inquiry: **Addendum 01 Allowances:** Please confirm BP-26A Electrical is to include Lump Sum Allowances #6, #7 & #8 in its base bid

CM Response: Confirmed; these allowances are to be included
Bid Scope & Bid Form have been updated to include these allowances
Documents are included within this CM Clarification

RFI inquiry: **E5.01 Power One-Line Diagram:** Please provide information on circuit and feeder to ATS-X as this information is not shown

CM Response: Provide 100A circuit and 100Y feeder

Item 16: Scope Clarification – All Bid Packages

RFI inquiry: **Warranty Period for Workmanship and Quality**

CM Response: All Subcontractors are advised via this CM Clarification that the warranty period for correction of deficiencies is twenty-four (24) months with interim inspections at 3, 6, 11, 14, 18, 21 & 23 months. All issues are to be acted upon expeditiously upon notification from BCC and/or Owner

Item 17: Scope Clarification – Division 09 Finishes

RFI inquiry: Please reissue **Dwg A3.0.2 Finish Schedule** as the Finish Schedule Notes overlap the Basis-of-Design

CM Response: This has been corrected and will be reissued in Addendum #2

Item 18: Scope Clarification – BP-04A Masonry

RFI inquiry: **Scope Clarification, Item 7.b.ii:** Please clarify installation of steel window supports

CM Response: Reference is to the steel angle supporting the window; Details 9 & 13/A3.2.1

RFI inquiry: **Scope Clarification, Face Brick Allowances:** Please clarify how to address special shapes as allowances exclude them

CM Response: Special shapes will be addressed as necessary outside the allowances

RFI inquiry: **Dwg. S4.01, Base Anchorage Detail and S1.1.1 Wall Reinforcing:** Please clarify wall reinforcing requirements as these drawings appear to conflict

CM Response: Walls are reinforced per S1.1.1; Base Anchorage Detail indicates how a wall anchors to thickened SOG e.g., where no dowels are stubbed-up from a footing, and to SOMD

End of CM Clarification No. 2

Subcontractor Scope of Work
Exhibit A

Pender County K-8 School
Job No. 2307

BP 09I – Resin Terrazzo Flooring

This bid package is intended to be complementary to the Contract Documents including the Project Drawings, Specifications, Addendum, and Project Manual. Subcontractor acknowledges that the Subcontractor Specific Requirements are not intended to describe the complete and final work scope. Reference is made to the Specifications Sections, but is in no way intended to limit or alter the intent of the contract documents.

Subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment, temporary protection of own work, coordination of own work and interaction of work of others, home office and field administration, project management, scheduling, field supervision, engineering, quality control, safety, taxes, insurances, permits, punch list, closeouts and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

SUBCONTRACTOR’S WORK SPECIFICALLY INCLUDES:

Bordeaux Bidding Requirements and Information 8/5/2024

Division 01 – General Requirements

Division 09 – Finishes

Section 096623

Resinous Matrix Terrazzo Flooring

All Related Sections/Requirements referenced within each Division and/or section

SUBCONTRACTOR SPECIFIC REQUIREMENTS:

1. Payment and Performance Bonds may be required for this bid scope:
 - a. Bordeaux Construction utilizes a Subcontractor Default Insurance (SDI) program for bonding subcontractors in lieu of requiring individual Payment & Performance Bonds
 - b. Base Bid assumes Bidder will qualify for participation in the SDI program; therefore, cost of payment and performance bonds are **not** to be included in the base bid price
 - c. If Bidder does not qualify for or cannot participate in the SDI program, Bidder shall provide payment and performance bonds with reimbursement of cost based upon actual invoice. Failure to provide an invoice will result in a maximum reimbursement of 1% of the cost of work.
2. BP-01 General Inclusion Items as applicable to complete Work
3. The on-site foreman or superintendent for this work scope shall have a cellular service enabled iPad, tablet or smart phone with iOS 13/Android 6.0 or later and shall have the latest version of the Procore Construction Management Software application installed in order to

- have all live project documents, drawings, specs, submittals, punch lists, forms, etc. in hand and immediately accessible
4. Complete installation of work in this bid scope in accordance with all local, state and federal (OSHA) safety regulations and/or requirements
 - a. OSHA Safety measures shall be required and implemented
 - b. Delivery drivers shall wear proper PPE while on site (staging, off-loading, etc.)
 5. Complete installation of work as outlined in the Construction Documents and within this scope package to include all insurances and taxes
 6. Dispose of all trash and waste materials in dumpster provided by Bordeaux Construction
 7. Furnish all labor, material, equipment, accessories, transition strips, etc. to make a complete installation of all **Resinous Matrix Terrazzo Flooring** requirements:
 - a. Include all submittals and shop drawings
 - i. Submit physical samples in accordance with specification section
 - b. Include select colors from manufacturer's full line of colors as specified, no upcharge will be accepted
 - c. Prepare & clean substrates to include all floor and wall patching, repair, leveling, grinding, crack control (membrane, crack suppression, control joints, sealants) measures, etc. as required to receive new materials
 - i. Prepare substrates in accordance with specification and manufacturer's written recommendations
 - ii. Substrate preparation shall include surface abrasion as required to remove existing finish, adhesives, high spots, etc.
 1. All floor prep to be done with a vacuum-equipped grinder/shot-blaster
 2. Preparation shall be sufficient to prohibit the transmission of any defects or deficiencies
 - a. Any corrective action required to mitigate said transmission shall be borne by this Subcontractor at no additional cost to project
 - iii. Include re-sawing, preparation and filling of all concrete joints
 - iv. Notify Bordeaux Construction prior to proceeding with any additional work
 - d. Install Moisture Vapor Treatment in accordance with specifications and manufacturer's written instructions
 - e. Include waterproofing membranes as required
 - f. Protect adjoining surfaces and close off floor drains to prevent spillage and migration of liquid materials outside application area
 - g. Include mock-ups as required to demonstrate aesthetic effects and set quality standards for materials and execution
 - i. Mock-ups to be of sufficient size to demonstrate joints, surface color, pattern, texture, standard of workmanship, etc.
 - ii. Include cost for any generator to power equipment for mockups
 - h. Perform initial cleaning to remove adhesives and blemishes as required
 - i. Perform and document to Bordeaux Construction alkalinity, adhesion and moisture testing as required in accordance with manufacturer's written recommendations and instructions:
 - i. Install moisture reading points in accordance with ASTM F 2170-19

- ii. Perform one (1) test for every 200 sf of installed area or sufficient quantity to verify suitability to proceed with installation
 - 1. Perform tests so that each test area does not exceed 200 SF
 - 2. Minimum three (3) tests per installation area, evenly representative
- iii. Anhydrous Calcium Chloride tests will **not** be accepted; use in-situ probe tests
- iv. Perform pH testing at each in-situ test site in accordance with ASTM F710-21
- v. Perform adhesion bond testing in accordance with manufacturer's requirements
- vi. Submit all test results and trend information to Bordeaux Construction prior to proceeding with flooring installation
- j. Furnish & install floor protection for **all** finished floors installed under this bid scope:
 - i. Review finished product with Bordeaux Construction prior to covering floors
 - ii. Install barrier tape to isolate areas during "curing" period after placement
 - iii. Tape all seams in floor protection
 - iv. Floor protection to remain in place until substantial completion
 - 1. Provide SCOFIELD Proguard Duracover or equivalent
 - 2. Corex board with poly sheet underneath is an acceptable equivalent
 - v. Maintenance and removal of floor protection by others
- k. Properly dispose of all chemicals, empty containers & packaging, product residues, dry dust, etc. off-site as part of this scope. Said waste material shall not be disposed of in general construction debris dumpster
- l. Include all cost associated with demonstration of specification compliance to include sampling and associated repairs
 - i. Subcontractor shall be responsible for all costs (re-testing, corrective measures, repairs, etc.) when its installation fails to meet compliance at no additional cost to the project

8. Allowances

Include all stated allowances outlined within this bid package

Use of any allowance shall be as directed by Bordeaux Construction and supported with sufficient documentation as required. Any work performed without prior written authorization will be considered as a requirement to complete the scope of work in this bid package and at no cost to the project

Include an **Allowance for Floor Moisture Mitigation**, installed as directed by Bordeaux Construction, and shall be based upon indicated Quantities and Unit Prices:

- a. Provide moisture mitigation methods as outlined within the specifications where concrete slabs fail pre-installation moisture testing
- b. Allowance provides for mitigation methods beyond the requirements outlined within this Bid Package
- c. Include all requirements within this bid package
- d. Allowance #1, include 25,000 SF (CMC-02)**

- 9. Inspect all conditions for suitability to receive work under this scope prior to starting work
 - a. Advise Bordeaux Construction immediately in writing of any deficiencies or issues
 - b. Commencement of work guarantees acceptance of conditions

- 10. Furnish all power and supplemental lighting as required for this scope
- 11. Pricing firm, not subject to escalation for duration of project

SPECIFIC EXCLUSIONS
Not Applicable

UNIT PRICES

UP-01	Floor Moisture Mitigation	\$ / SF
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ALTERNATES
Not Applicable



FORM OF PROPOSAL

Project: Pender County K-8 School
NC Highway 210
Hampstead, NC 28443

Bids Submitted To: Bordeaux Construction Company, Inc.

BID PACKAGE: **BP – 09I Resin Matrix Terrazzo Floors**

BIDDER: _____

NC License #: _____

(License applies to BP 02 Surveying, BP 21A Fire Protection, BP 22A Plumbing, BP 23A HVAC, BP23B HVAC & Plumbing, BP 26A Electrical, BP-28A Security Electronics, or others as required by NC Statute)

Date: **Tuesday, August 27th**

Bid Time: **2:00 pm**

The undersigned, as Bidder, hereby declares that the only person or persons interested in this proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this proposal or in the contract to be entered into; that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud. Bidder further declares that he/she has examined the site of the work and the contract documents relative thereto, has read all special provisions furnished prior to the opening of bids, and that Bidder has satisfied themselves relative to the work to be performed.

Bidder proposes and agrees, if this proposal is accepted, to contract with Bordeaux Construction in the form of contract specified in the Bid Manual to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the construction of:

Bid Package 01 – General Inclusions
Bid Package 09I Resin Matrix Terrazzo Floors

in full, in complete accordance with the plans, specifications and contract documents, within the contract time as detailed in the Pender County K-8 School Bid Schedule, to the full and entire satisfaction of Owner and Bordeaux Construction with a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and the Contract Documents.

Bid Package: 09I Resin Matrix Terrazzo Floors

BASE BID PRICE

The Base Bid Price includes all Work required by and in strict accordance with the Bid Documents for this Project, for the Lump Sum of:

\$ _____ (Figures only)

ALTERNATES

Should any of the alternates as described in the contract documents be accepted, the amount written below shall be the amount to be "added to" the base bid. Alternate price should include all cost of overhead and profit. Bordeaux Construction and Owner expressly reserve the right to accept or reject any or all Alternate Prices in any sequence. Acceptance or rejection of alternates shall not change the contract duration nor relieve the Bidder of timely completion of work within the time periods indicated in the contract documents.

Not Applicable

ALLOWANCES

Allowances should include all cost of work, overhead and profit to make a complete installation and shall be based upon indicated Quantities and Unit Prices, unless otherwise noted. Use of any allowance shall be as directed by Bordeaux Construction.

All listed allowances shall be included as part of the Base Bid Price:

#01 Floor Moisture Mitigation; **25,000 SF** \$ _____.

UNIT PRICES

Unit prices quoted and accepted shall apply throughout the life of the contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in the base bid quantity of the work all in accordance with the contract documents. Bordeaux Construction reserves the right to reject, negotiate or accept all unit prices prior to contract award.

UP-01 Floor Moisture Mitigation \$ _____ / SF

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **Also** list the good faith efforts (Affidavit **A**) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - Bordeaux Construction will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

* OR *

If less than the 10% goal, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MB contractors, vendors and suppliers that will be used. Affidavit **A** or Affidavit **B**, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid.

Proposal Signature Page

Bidder further proposes and agrees to commence work under this contract on a date to be specified by Bordeaux Construction and shall pursue the scope of work included in its contract in accordance with the schedule prepared by Bordeaux Construction.

Respectfully submitted this,

_____ Day of _____, _____
(Write the Date of the Month in Words) (Write the Name of the Current Month & Year)

WITNESS:

(Witness Signs here if you are a Proprietorship or Partnership)

By: _____
(Printed Name of Person Signing Bid)

(Signature)

ADDRESS:

TITLE: _____
(Owner, Partner, President or Vice President)

LICENSE #: _____

FEDERAL ID#: _____

ATTEST:

By: _____

(CORPORATE SEAL)

TITLE: _____
(Corporate Secretary or Asst. Secretary Only)

Bid Manual received and used in computing bid (Initial here) _____

Addendum received and used in computing bid. Failure to acknowledge receipt of addendum may result in bid being considered non-responsive. (Initial each as applicable)

Addendum No. 1 _____ Addendum No. 2 _____ Addendum No. 3 _____ Addendum No. 4 _____

Bordeaux Construction Clarification received and used in computing bid. Failure to acknowledge receipt of clarification may result in bid being considered non-responsive. (Initial each as applicable)

Clarification No. 1 _____ Clarification No. 2 _____ Clarification No. 3 _____ Clarification No. 4 _____
Clarification No. 5 _____ Clarification No. 6 _____ Clarification No. 7 _____ Clarification No. 8 _____

Subcontractor Scope of Work
Exhibit A

Pender County K-8 School
Job No. 2307

BP 23A – HVAC / Mechanical

This bid package is intended to be complementary to the Contract Documents including the Project Drawings, Specifications, Addendum, and Project Manual. Subcontractor acknowledges that the Subcontractor Specific Requirements are not intended to describe the complete and final work scope. Reference is made to the Specifications Sections, but is in no way intended to limit or alter the intent of the contract documents.

Subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment, temporary protection of own work, coordination of own work and interaction of work of others, home office and field administration, project management, scheduling, field supervision, engineering, quality control, safety, taxes, insurances, permits, punch list, closeouts and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

SUBCONTRACTOR’S WORK SPECIFICALLY INCLUDES:

Bordeaux Bidding Requirements and Information 8/5/2024

Division 01 – General Requirements

Division 07 – Thermal and Moisture Protection

Section 078400 Firestopping (as it applies to this scope)

Division 08 – Openings

Section 083113 Access Doors & Frames (as it applies to this scope)

Section 089100 Louvers

Division 22 – Plumbing (as it applies to this scope)

Division 23 – Mechanical

Division 26 – Electrical (as it applies to this scope)

Division 27 – Communications (as it applies to this scope)

Division 28 – Electronic Safety & Security (as it applies to this scope)

Division 31 – Earthwork (as it applies to this scope)

All Related Sections/Requirements referenced within each Division and/or section

SUBCONTRACTOR SPECIFIC REQUIREMENTS:

1. Payment and Performance Bonds may be required for this bid scope:
 - a. Bordeaux Construction utilizes a Subcontractor Default Insurance (SDI) program for bonding subcontractors in lieu of requiring individual Payment & Performance Bonds
 - b. Base Bid assumes Bidder will qualify for participation in the SDI program; therefore, cost of payment and performance bonds are **not** to be included in the base bid price

- c. If Bidder does not qualify for or cannot participate in the SDI program, Bidder shall provide payment and performance bonds with reimbursement of cost based upon actual invoice. Failure to provide an invoice will result in a maximum reimbursement of 1% of the cost of work.
2. BP-01 General Inclusion Items as applicable to complete Work
3. The on-site foreman or superintendent for this work scope shall have a cellular service enabled iPad, tablet or smart phone with iOS 13/Android 6.0 or later and shall have the latest version of the Procore Construction Management Software application installed in order to have all live project documents, drawings, specs, submittals, punch lists, forms, etc. in hand and immediately accessible
4. This project will utilize Building Information Modeling to facilitate the preparation of coordinated shop drawings. Participation in the BIM model is a requirement of this bid package. Reference Bid Package BP-01 General Inclusions and Exhibit M (Bid Manual Section 07) for detailed BIM requirements for this project.
5. Complete installation of work in this bid scope in accordance with all local, state and federal (OSHA) safety regulations and/or requirements
 - a. OSHA Safety measures shall be required and implemented
 - b. Delivery drivers shall wear proper PPE while on site (staging, off-loading, etc.)
6. Complete installation as outlined in the construction documents and within this scope package to include all insurances and taxes
7. Dispose of all trash and waste materials in dumpster provided by Bordeaux Construction
8. Furnish all labor, material, equipment, sleeves, pumps, piping, ductwork, insulations, protective coverings, identifications, controls systems, associated conduit & conductors, devices, supports, hangers, angles, Unistrut, anchors bolts, accessories and other incidentals, etc. to make a complete installation of all **mechanical systems** requirements:
 - i. **Scheduled mechanical equipment**
 1. Refer to Construction Documents and Schedules
 2. Include exterior (site) hydronic piping for Chilled Water system
 3. Include Chemical Treatment system
 - ii. **Ductwork**
 1. Install duct detectors provided by BP-26A Electrical; coordinate location and installation with electrician and fire alarm contractors
 2. Furnish & install all access doors for dampers, duct detectors, etc.
 - iii. **Unit heaters**
 1. Furnish & install all unit, duct and electric baseboard heaters
 2. Furnish & install all control wiring and thermostats
 3. Electrical connections under BP-26A
 - iv. **Grilles, Registers & Diffusers**
 1. Include additional wire supports for grilles, dampers, etc. as required to meet code
 2. Wires to be supported only from structure
 3. Do not attach wires to supports intended for equipment (duct, pipe, grilles, etc.) or light fixtures
 - v. **Roof curbs**, duct supports, equipment supports, pipe supports, roof sleeves, vents, etc.:

1. Coordinate locations & sizes of roof curbs with other trades
 2. Include all cutting requirements for roof deck openings
 3. Install wood blocking as required under curbs, supports, etc.
 4. Curbs to be seismic designed as required
 5. Insulate space between deck and unit as required
 6. Curbs to be of sufficient height to provide a minimum clearance of 12" between finished roof surface and roof equipment
 7. Secure all roof-mounted equipment as required
- vi. **Louvers, Vents and Dampers** (manual, balancing, smoke/fire, motorized, backdraft, etc.):
1. Furnish & install all fixed louvers
 2. Install all motorized dampers and motorized louvers are furnished by BP-23C HVAC Controls
 3. Include sheetmetal flashings, trim, blank panels, caulking, sealants, etc. as required
 4. Provide custom color as selected by Designer at no cost to the project
 5. Louvers in doors provided under others
- vii. **Condensate drains** (piping, pans, pipe supports, splash blocks, etc.) for equipment provided
- i. **Dryer & Kiln venting**
 1. Include vent box, duct, wall cap, roof vent, fan, etc.
 2. Connect to equipment installed by others
 - ii. **Kitchen Hood Exhaust Fans**
 1. Include all duct (grease, chimney, double-wall, welded) requirements
 2. Coordinate with BP-26A for equipment disconnects and shut-offs
 3. Include all testing requirements for Kitchen Hood
 - a. Include pre-testing of fans prior to final acceptance tests
 - b. Include three (3) Acceptance tests as part of base bid
 - c. Retesting costs shall be borne by this Subcontractor at no additional cost to the project
 - iii. **Heat trace**
 1. Controllers to be sized for actual heat trace installed
 2. Coordinate circuit amperage requirements with BP-26A Electrical prior to conduit rough-in
 3. Any cost to upsize conduit, conductors or circuit breakers after rough-in or ordering of electrical equipment resulting from Subcontractor's failure to timely coordinate will be borne by Subcontractor at no additional cost to project
 - iv. **Identification and labeling**
 1. Label all access doors
 2. Include stencil painting, pipe markers, tagging, name plates, jacketing
 3. Include "power source" labeling for all equipment
 4. Include all conductor, conduit & raceway identification requirements
 5. Provide permanent color pigmented conduit in all areas above ceiling
 - v. **Delegated-design**

1. Include all associated cost to provide design, submittals, engineered sealed drawings, etc. as required for this scope of work
 2. Drawings to be signed & sealed by a Professional Engineer licensed in NC
 - vi. **Excavation, backfill and compaction**
 1. Subgrade to be properly compacted, graded and left ready for others
 - vii. **Firestopping**
 - viii. **Construction Layout**
 1. Coordinate, layout & install sleeves, dampers and other requirements for mechanical penetrations thru floors, walls and roof deck
 2. Coordinate & assist in layout of all framed-openings required for mechanical penetrations in elevated slabs and roof decks
 3. Any penetration or framed-opening missed or incorrectly located will be corrected at subcontractor's expense
 4. Coordinate & assist in layout of all concrete housekeeping and equipment pads required for this bid scope; pads provided by others
9. **Additional Requirements:**
- a. Bordeaux Construction will pay for all initial Building and Trade permits
 - i. Subcontractor shall obtain and activate its respective permits
 - ii. Subcontractor shall be responsible for all re-inspection fees & associated costs
 - b. Furnish & install all electrical requirements outlined in the mechanical specifications, unless otherwise specified or indicated within the Construction Documents:
 - i. Motor starters, combo starters and disconnect switches for scheduled mechanical equipment are furnished by BP-23C HVAC Controls and installed by BP-26A Electrical, unless otherwise specified or indicated within the Construction Documents:
 1. Items marked "Provide with Unit" shall be furnished & installed with the equipment
 2. Disconnects for chillers are furnished with the equipment and installed by BP-26A Electrical
 3. Final electrical connections between disconnects and equipment to be made **by BP-23C HVAC Controls (CMC #2)**; coordinate with BP-26A Electrical
 - ii. Power wiring associated with equipment that is not specifically shown on electrical drawings shall be provided under this bid scope
 - iii. Subcontractor is responsible for final load-side electrical connections of all equipment provided under this scope
 - c. All controls, VFD/VSDs, interlock & low voltage wiring, interconnect wiring and raceways between control panel and scheduled equipment, thermostats, devices, etc. are furnished & installed under BP-23C HVAC Controls
 - d. Include final mechanical connections to all equipment, whether furnished or installed under this bid package
 - e. Provide factory testing, start-up services and training as required for this scope
 - i. Include cost of visits to witness factory testing for specification compliance
 - f. Furnish all access doors & frames as required for this scope
 - i. Installation in GWB assemblies by BP-09A Drywall

- ii. Coordinate locations of access doors prior to framing
 - iii. Label access doors as required
- g. Protect ductwork from infiltration of dust & debris
 - i. Clean ductwork as required prior to testing and Owner acceptance
 - ii. Duct must be sealed when delivered and stored on dunnage
 - iii. Installed duct must be sealed at the end of each day
 - iv. Bordeaux Construction reserves the right to reject any un-protected duct
- h. Include all required vibration isolation, pipe expansion supports, etc.
- i. Include seismic design and bracing as required to meet project's seismic zone
- j. Clean, prepare, prime and paint all piping, ductwork, conduit, steel supports, hangers and other items installed under this scope in accordance with contract requirements
- k. Furnish & install all sleeves for this bid package
- l. Include all flushing, chlorination, testing and certification of systems as required
- m. Include participation in mock-ups as required
- n. Actuators & valves shall be rated for the environmental conditions they are installed
- o. Subcontractor shall submit a record of all mechanical system and equipment maintenance performed between System Start-up and Owner acceptance
 - i. Failure to do so will delay payments after 90% completion
 - ii. If no maintenance occurred, submit letter stating such
- p. Provide, maintain and remove temporary filter media on all return air ducts and grilles during construction
 - i. Replace media when dirty or as directed by Bordeaux Construction
- q. Include all temporary and new permanent filters as required
 - i. Replace permanent filters immediately prior to substantial completion
 - ii. Verify completion in writing to Bordeaux Construction
- r. Include all cost associated with extending warranties so the warranty requirement from the date of Owner Acceptance is maintained
- s. Coordinate with Commissioning Agent; participate in all commissioning activities and processes as necessary; comply with all requirements
- t. Coordinate work such that all systems (equipment, ductwork, controls, FA, etc.) are ready for HVAC equipment startup to establish building climate control prior to scheduled start of interior finishes
- u. Coordinate all equipment to fit through doors
 - i. Advise Bordeaux Construction in writing during submittals of any conflict
 - ii. Cost associated with enlarging door openings after construction as a result of Subcontractor's failure to timely advise Bordeaux Construction shall be borne by this Subcontractor at no cost to the project
- v. Include all core drilling and cutting for any required penetration or opening
- w. Broom clean roof after each day working on roof
 - i. Subcontractor will be responsible for roof damage and/or discoloration from metal shavings or fasteners left on roof associated with its work
- x. Furnish & install all backflow prevention devices as required for this scope
 - i. Provide certification for all backflow devices installed by this scope
 - ii. A representative certified in backflow prevention assembly in the State of North Carolina and acceptable to Owner must be employed for this work

- y. Include all associated cost to **assist and support** 3rd-Party spray testing conducted by Owner
 - z. Include all “local” dewatering measures as required for this work
10. Inspections are required on this project
 - a. Refer to Specifications and Drawings for schedule of special inspections
 - b. Coordinate with special inspector, testing agencies, local inspectors and/or Engineer of Record as may be required
 - c. Include all associated cost to participate and support inspections
 - d. Subcontractor shall be responsible for all costs (re-testing, corrective measures, repairs, etc.) at no additional cost to the project when its installation fails compliance
 - e. Owner and/or Bordeaux Construction reserve the right to request additional testing in the event of significant or continual test failures
 - f. Coordinate with Bordeaux Construction for scheduling of inspections
 - g. Perform quality control testing to demonstrate compliance with contract documents in advance of inspections and 3rd-party testing
 11. Concrete floors are finished products; scissor lifts and other non-marking equipment may be allowed upon review of Subcontractor’s erection plan with Bordeaux Construction and receipt of written authorization thereof
 12. Inspect all conditions for suitability to receive work under this scope prior to starting work
 - a. Advise Bordeaux Construction immediately in writing of any deficiencies or issue
 - b. Commencement of work guarantees acceptance of conditions
 13. Daily clean-up of all trash and debris caused by this work
 14. Include all necessary crews and equipment as required to facilitate construction progress
 15. Pricing is firm, not subject to escalation for duration of project

SPECIFIC EXCLUSIONS

1. Building Automation System and Controls
2. Certified Testing, Adjusting & Balancing
3. Temporary and permanent electrical usage costs
4. Kitchen Hood
5. Housekeeping and exterior equipment pads

UNIT PRICES

Not applicable

ALTERNATES

Not applicable

Subcontractor Scope of Work
Exhibit A

Pender County K-8 School
Job No. 2307

BP 26A - Electrical

This bid package is intended to be complementary to the Contract Documents including the Project Drawings, Specifications, Addendum, and Project Manual. Subcontractor acknowledges that the Subcontractor Specific Requirements are not intended to describe the complete and final work scope. Reference is made to the Specifications Sections, but is in no way intended to limit or alter the intent of the contract documents.

Subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment, temporary protection of own work, coordination of own work and interaction of work of others, home office and field administration, project management, scheduling, field supervision, engineering, quality control, safety, taxes, insurances, permits, punch list, closeouts and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

SUBCONTRACTOR'S WORK SPECIFICALLY INCLUDES:

Bordeaux Bidding Requirements and Information 8/5/2024

Division 01 – General Requirements	
Division 03 – Concrete	(as it applies to this scope)
Division 06 – Wood, Plastics & Composites	
Section 061000 Rough Carpentry	(as it applies to this scope)
Division 07 – Thermal & Moisture Protection	
Section 078400 Firestopping	(as it applies to this scope)
Division 08 – Openings	(as it applies to this scope)
Division 11 – Equipment	(as it applies to this scope)
Division 21 – 23 Fire Suppression, Plumbing & Mechanical	(as it applies to this scope)
Division 26 – Electrical	Complete
Division 27 – Communications	Complete
Division 28 – Electronic Safety and Security	Complete
Division 31 – 33 Earthwork, Exterior Improvements & Utilities	(as it applies to this scope)

All Related Sections/Requirements referenced within each Division and/or Section

SUBCONTRACTOR SPECIFIC REQUIREMENTS:

1. Payment and Performance Bonds may be required for this bid scope:

- a. Bordeaux Construction utilizes a Subcontractor Default Insurance (SDI) program for bonding subcontractors in lieu of requiring individual Payment & Performance Bonds
 - b. Base Bid assumes Bidder will qualify for participation in the SDI program; therefore, cost of payment and performance bonds are **not** to be included in the base bid price
 - c. If Bidder does not qualify for or cannot participate in the SDI program, Bidder shall provide payment and performance bonds with reimbursement of cost based upon actual invoice. Failure to provide an invoice will result in a maximum reimbursement of 1% of the cost of work.
2. BP-01 General Inclusion Items as applicable to complete Work
 3. The on-site foreman or superintendent for this work scope shall have a cellular service enabled iPad, tablet or smart phone with iOS 13/Android 6.0 or later and shall have the latest version of the Procore Construction Management Software application installed in order to have all live project documents, drawings, specs, submittals, punch lists, forms, etc. in hand and immediately accessible
 4. This project will utilize Building Information Modeling to facilitate the preparation of coordinated shop drawings. Participation in the BIM model is a requirement of this bid package. Reference Bid Package BP-01 General Inclusions and Exhibit M (Bid Manual Section 07) for detailed BIM requirements for this project.
 5. Complete installation of work in this bid scope in accordance with all local, state and federal (OSHA) safety regulations and/or requirements
 - a. OSHA Safety measures shall be required and implemented
 - b. Delivery drivers shall wear proper PPE while on site (staging, off-loading, etc.)
 6. Complete installation as outlined in the construction documents and within this scope package to include all insurances and taxes
 7. Dispose of all trash in dumpster provided by Bordeaux Construction (BCC)
 8. The following is a general outline of the items specifically included, but not limited to, in this bid scope:
 - a. Complete **Electrical Power Distribution Systems** requirements
 - i. Switchgear, Switchboards, Transformers, ECBs, Switches
 - ii. Panelboards, conduit, conductors, devices, trims, cable tray
 - iii. Surge/Suppression Protection
 - iv. Grounding and Bonding
 - v. Lighting and power relay panels
 - vi. Include all power and low voltage requirements for powered doors
 1. Include coordination with each door installer
 2. Final operation of each door is the sole responsibility of the installer
 - vii. Factory testing, start-up services, commissioning testing and training as required for this scope
 1. Include all associated costs of required visits to witness factory testing for specification compliance
 - viii. Coordinate with BAS to support power metering as required
 - ix. Install conduit, back boxes, pull strings, etc. to support equipment installed by others
 - b. Complete **Coordination Studies** requirements

- i. All delegated-design and scope requirements for providing the Overcurrent Protective Device Coordination Study, Fault-Current Study, Equipment Evaluation Report and Arc-Flash Analysis Study
- ii. All arc-flash labeling requirements
- iii. All Overcurrent Protective Device testing and report
- iv. Provide copy of utility company's calculated maximum available fault current at service connection point
- v. Verify equipment fault current interrupting capacity requirements prior to ordering electrical distribution equipment; provide documentation to BCC
- c. Complete **Lighting and Controls** requirements
 - i. Furnish & install all raceway, wiring, cabling, devices, relays, controllers, panels, fixtures, etc. for interior and exterior lighting systems
 - 1. Site lighting for parking, drives and general areas by utility service provider
 - 2. Verify exterior photometric design after installation
 - 3. Include all required conduit, raceway, hand-holes, wiring and pole bases for site lighting as required
 - ii. Include electrical enclosures for lighting controls as required
 - iii. Use non-marking or non-staining hand protection when handling and cleaning fixtures
 - iv. Clean fixtures prior to Final Acceptance
 - v. Make final adjustments to timing switches and sensors as required
 - vi. Include all requirements to interconnect lighting controls and BAS
 - vii. Include Occupancy Adjustments requirements
 - 1. Include two after-hours visits for this purpose
- d. Complete **Cable Tray** requirements
 - i. Furnish & install all cable tray as outlined in construction documents
- e. Complete **Fire Alarm system** requirements
 - i. Furnish & install all equipment, raceways, wiring & devices for a complete Fire Alarm system inclusive of control, graphics and remote annunciator panels (FACP, FAGP & FAAP)
 - ii. All fire alarm wiring for tamper, flow, duct detectors, etc. shall be wired into fire alarm system under this bid package
 - iii. Furnish all necessary fire alarm devices (detectors, switches, sensors, etc.) for installation by others; coordinate as required
 - iv. Include all modules, switches, relays, etc. necessary to interface FA System with other systems as required
 - v. Provide framed Device Map
- f. Complete **Communication Systems** requirements
 - i. Scope includes data/telecom, wireless clock, intercom/PA, and area of rescue systems
 - ii. Furnish & install all equipment, raceway, wiring, cabling & devices for a complete installation; include connection to devices
 - iii. Include telecommunication room equipment racks & cabinets, cable tray, cable support, power strips, grounding and UPS

- iv. Network switches and final connections by Owner
- g. Complete **Security Systems rough-in** requirements
 - i. Scope includes intrusion detection, door access control and CCTV systems
 - ii. Furnish & install all necessary raceway, pull strings, boxes & covers and cabling for a complete rough-in installation
 - iii. Equipment, cameras, card-readers, devices, labeling, etc. will be installed by Owner
 - iv. Provide framed/laminated Zone Lists & Device Maps as required
- h. Complete **Audiovisual System** requirements
 - i. Furnish & install all equipment, racks, UPS, raceway, wiring, cabling & devices for a complete installation
 - ii. Provide first year quarterly assurance visits
- i. Complete **Emergency Generator and Automatic Transfer Switch** requirements
 - i. Furnish & install all requirements for emergency generator
 - ii. Include all testing, training, training, O&M information, etc. requirements
 - iii. Provide all required fuel for generator testing including initial generator testing, building testing under generator power, commissioning under generator power, A/E inspection, and generator exercising as may be required through Owner Acceptance
 - iv. Include full tank of fuel upon Owner Acceptance; notify BCC in writing
 - v. Generator pad constructed under BP-03A Concrete
 - 1. Coordinate underground rough-in
 - 2. Coordinate pad size, layout, reinforcing and other manufacturer or local utility requirements
 - 3. Furnish all required embeds and anchors
- j. Complete **Generator Docking Station and Transfer Switch** requirements
- k. Complete **Emergency Radio Communication Enhancement System (RF-BDA)** requirements
 - i. Include all associated cost to design an ERCES to achieve the desired coverage
 - 1. Provide complete delegated-design documents
 - 2. Design must support VIPER network 700 & 800 MHz frequencies
 - 3. System shall be coordinated and integrated with Fire Alarm System
 - 4. Provide complete submittal information (device & equipment product data, shop drawings, design calculations, etc.)
 - ii. Include all associated cost to furnish & install all equipment, raceway, wiring, cabling & devices, sleeves, pull-strings, etc. for a complete ERCES installation
 - 1. Provide system compliance and acceptance documentation (Proof of Performance Report, NFPA 72 & IFC510 documents, etc.)
 - 2. Provide complete closeout documentation
 - 3. All cabling must be plenum-rated
 - 4. Include a weatherhead for roof installation
 - 5. Include grounding of roof antenna
 - 6. Weathertight flashings provided by others
 - 7. All necessary permits for this system as part of this bid scope
- l. Complete **fire-rated plywood backboard** requirements for this scope of work

- m. Complete **Firestopping** requirements for this scope of work
- n. Complete **Site Electrical work** requirements
 - i. All concrete duct bank requirements
 - 1. Include cost to excavate, form & place concrete
 - 2. Include red-color concrete and warning tape with detection wire
 - ii. All transformer pad requirements
 - 1. All conduit and pull strings for utility company to connect with transformers, ductbank, etc.
 - 2. Transformer pad furnished and installed by BP-03A Concrete
 - a. Coordinate transformer pad requirements with utility provider
 - iii. All raceways & spares, ductbank, handholds, conductors, etc. for:
 - 1. Secondary service from utility transformer to Main Electrical Room
 - 2. Secondary service from utility transformer to Generator
 - 3. Generator to Main Electrical Room
 - iv. All raceways, wiring and tamper switches to BFP/RPZD and PIV
 - v. Provide power to utility hot boxes for heat tape & heaters
 - vi. All pull strings, innerduct and other accessories as required for this scope
 - vii. All underground sleeves required for crossing pavements and gravel drives
 - 1. Include sleeving requirements for utility company
 - viii. All raceways & spares, ductbank, handholds, etc. for:
 - 1. Primary service from property entrance to utility transformer
 - 2. Telecom/fiber service from property entrance to Telecom Rooms
 - 3. Coordinate with utility companies as required
- o. Complete **Lightning Protection system** requirements
 - i. Include delegated-design and layout
 - ii. Include protection ground inspection points
 - iii. Include UL Master Label and Certificate of Inspection
 - iv. Include LPI System Certification
- p. Complete **delegated-design** requirements for this scope of work
 - i. Include all associated cost to provide design, submittals, engineered sealed drawings, etc.
 - ii. Drawings to be stamped and sealed by a Professional Engineer licensed in NC
- q. Complete **Construction Layout** requirements
 - i. Complete layout of all electrical equipment, panelboards, conduits, underground, in-wall rough-in, etc. as required for this scope of work
 - ii. Coordinate, layout & install sleeves for electrical penetrations through floors, walls and roof decks
 - iii. Any penetration missed or incorrectly located will be corrected at subcontractor's expense
- r. Complete **Temporary Construction Electrical Service** requirements
 - i. Provide temporary power and hookup to the BCC Field Offices and Meeting trailers as coordinated with Bordeaux Construction
 - 1. Install temporary power to office trailer as early as possible
 - 2. Include all associated cost for initial installation, temporary electrical permit, meter pole and base, maintenance and removal

3. Temporary usage costs are excluded from this bid scope
- ii. Furnish, install, maintain & remove temporary electrical services to each work area as directed by Bordeaux Construction
 1. Provide 3-phase service to support elevator start-up and enhance temporary power distribution throughout the building
 2. Temporary power panels to have all GFCI breakers
 3. Coordinate routing of underground conduit for temporary electrical with Bordeaux Construction and BP-31A Site Turnkey
 4. Review weekly to ensure safety compliance
 5. Conduct GFCI testing daily and document in field report to BCC
 6. Panels shall be located such that any building area is reachable by a 100' extension cord
- s. Complete **Temporary Construction Lighting** requirements
 - i. Furnish, install & maintain all temporary lighting for construction
 1. Temporary lighting shall be minimum 10 fc; maintain minimum light levels throughout the project
 - ii. Review weekly to ensure safety compliance
 - iii. Remove lighting as directed by Bordeaux Construction
- t. Complete **Labeling and Identification** requirements
 - i. Include all electrical power distribution systems
 - ii. Include all systems installed under this bid package
 - iii. Include all devices installed under this bid package
 - iv. Include all raceway & conductors installed under this bid package
 - v. Provide permanent color-pigmented conduit in all areas above ceiling and exposed (not scheduled to paint by others); do not use vinyl identification
 - vi. Include all access doors
- u. Complete **Testing** requirements
 - i. Provide all required testing and record documentation to include, but not limited to:
 1. Conductor and Megger testing
 2. Grounding & Bonding
 3. Switchgear
 4. Transformers
 5. All Transfer Switches
 6. Generator & docking station
 7. Load Bank testing
 8. Ground Fault, Arc Flash and Short-Circuit Studies
 9. Communications backbone & horizontal cabling
 10. Emergency Lighting
 11. Lighting and Controls
 12. GFCI/GFEP circuit function
 13. Fire Alarm System
 14. Smoke Control System
 15. Communication Systems
 16. Emergency Radio Communication Enhanced System (BDA/DAS)

- 17. Infrared scanning as required for this scope of work
- 18. Other systems as required to document operational status
- ii. Provide NFPA 72 and NFPA 110 testing certifications prior to scheduling architect/engineer walkthroughs

v. Allowances

- i. Include all stated allowances outlined within this bid package**
- ii. Unit Prices will correspond with respective quantity allowances**

Additional Requirements:

- a. Bordeaux Construction will pay for all initial Building and Trade permits
 - i. Subcontractor shall obtain and activate its respective permits
 - ii. Subcontractor shall be responsible for all re-inspection fees & associated costs
- b. Include all excavation, backfill and compaction requirements for this bid scope
 - i. Subgrade to be properly compacted, graded and left ready for others
- c. Provide sufficient manpower, materials and equipment for installing electrical raceway within masonry construction. Electrical crews must work same hours as masonry contractor during CMU installation, regardless of weather or day of the week, and in addition to other scheduled electrical work.
- d. Full compliance with underground location requirements as required by law
 - i. Provide Bordeaux Construction NC811 locate ticket numbers prior to starting work
 - ii. Notify Bordeaux Construction in writing of any conflicts with proposed work prior to commencement of work
- e. Include all seismic control requirements for this bid scope
- f. Include all core drilling and saw cutting for penetrations as required
- g. Coordinate work such that building permanent power and distribution wiring are ready for HVAC equipment startup to establish building climate control. Ensure permanent lighting systems are ready at the time of starting interior finishes.
- h. Include all grounding and bonding work (bonding to foundation, fire suppression, electrical static dissipative (ESD) tile, fencing, etc.) with associated test reports as required for the project
- i. Provide power to all equipment furnished by others including, but not limited to, Fire Suppression, Plumbing, HVAC, Food Service, Kitchen Hood, Laundry and Divisions 8, 10 & 11; include final connections as required
- j. Coordination of all breaker sizes with food service and other equipment prior to ordering is a requirement of this bid package. No additional cost will be allowed for breaker sizes ordered incorrectly.
- k. Motor starters, combo starters and disconnect switches for scheduled mechanical equipment are furnished by BP-23C HVAC Controls and installed by BP-26A Electrical, unless otherwise specified or indicated within the Construction Documents:
 - i. Items marked "Provide with Unit" shall be furnished & installed with the equipment
 - ii. Disconnects for chillers are furnished with the equipment; installed by BP-26A
- l. Final electrical connections between disconnects and equipment to be made under by respective bid scopes

- m. Power wiring associated with equipment that is not specifically shown on electrical drawings shall be provided by others
- n. Final load-side electrical connections for all equipment provided by others
- o. Provide rack-style frame for mounting all electrical disconnects, starters, etc. when electrical cannot be mounted on individual rooftop equipment
 - i. Rack shall consist of two (2) 2" galvanized steel pipe supports with screw-on caps connected to bar joist structure prior to roofing
 - ii. Provide galvanized Unistrut support between pipe supports to mount starters and disconnects
 - iii. BP-07C Roofing shall make pipe supports weathertight
- p. Furnish all access doors & frames as required for this scope
 - i. Installation in GWB assemblies by BP-09A Drywall
 - ii. Coordinate locations of access doors prior to framing
- q. Include final cleaning of all electrical work in this scope
- r. Broom clean roof after each day working on roof
 - i. Subcontractor will be responsible for roof damage and/or discoloration from metal shavings or fasteners left on roof associated with its work
- s. Unless specifically noted in the "Specific Exclusions" of this bid package, provide all concrete materials as required for this scope of work inclusive of any layout, forming, excavation, concrete placement equipment, etc.
 - i. All exposed concrete shall be rubbed and patched as required to remove surfaces defects
- t. Include all cost associated with extending warranties so the warranty requirement from the date of Owner Acceptance is maintained

9. Allowances amended per CMC-02

Use of any allowance shall be as directed by Bordeaux Construction and supported with sufficient documentation as required. Any work performed without prior written authorization will be considered as a requirement to complete the scope of work in this bid package and at no cost to the project

Include as **Allowances for designated scope and quantity**, installed as directed by Bordeaux Construction and shall be based upon indicated Quantities and Unit Prices:

Allowances #1 thru #3 as indicated:

#01	Unsuitable soils (Trench) remove & dispose OFF-SITE	100 CY
#02	Replacement of unsuitable soils (Trench) with select import fill	100 CY
#03	Replacement of unsuitable soils (Trench) with #57 stone	100 CY

- i. Allowance shall include all associated cost for purchase of materials, transportation, placement, compaction and quantity verification
- ii. Allowance to include all requirements outlined within this bid package

Allowances #4 thru #12 as indicated:

#04	FA Horn Strobe (75')	five (5) each
#05	FA Pull Station; (75')	five (5) each

#06	Exit Light (100')	five (5) each
#07	FA Smoke Detector (75')	five (5) each
#08	Duplex Receptacle (100')	five (5) each
#09	Data Outlet (2 drops, 30' conduit & 300' cabling)	five (5) each
#10	Duct Detector (75' conduit & cabling)	five (5) each
#11	Exterior Light Fixture (100')	five (5) each
#12	Wireless Access point (100')	five (5) each

- i. Allowances shall include all associated cost to furnish & install specified fixture inclusive of all required devices, fixtures, conduit, conductors, cabling, boxes, hangers, supports, terminations, programming, testing, etc.
- ii. Allowances to include all requirements outlined within this bid package

Allowance #13 as indicated:

#13	Underground conduit sleeves (3" PVC)	200 LF
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- i. Allowances shall include all associated cost for purchase of materials, transportation, placement, compaction and quantity verification
- ii. Allowances to include all requirements outlined within this bid package

Include an Allowance for Foodservice Equipment electrical changes:

- a. Allowance is defined as electrical modifications as may be required resulting from differing field conditions, equipment and submittal requirements
- b. Allowance to include all requirements outlined within this bid package
- c. **Allowance #14; Lump Sum (LS-05) \$5,000** for said work scope

Include an Allowance to provide indicated Sports Fields Lighting requirements:

- a. Allowance includes all necessary requirements to provide 30-foot candle average sports lighting at the multipurpose field and 50 infield/30 outfield foot-candle average sports lighting at the baseball field as outlined in the construction documents
- b. Allowance to include all requirements outlined within this bid package
Allowance #15; Lump Sum (LS-06) \$900,000 for said work scope

Include an Allowance to provide all electrical requirements necessary to operate the NIC lift station:

- a. Allowance includes all necessary electrical requirements to operate the NIC lift station as outlined in the construction documents
- b. Allowance to include all requirements outlined within this bid package
Allowance #16; Lump Sum (LS-07) \$30,000 for said work scope

Include an Allowance for a Vape Detection System:

- a. Allowance includes all necessary requirements to make a complete installation of a vape detection system as outlined in the construction documents
- b. Allowance to include all requirements outlined within this bid package

Allowance #17; Lump Sum (LS-08) \$30,000 for said work scope

10. Inspections are required on this project:
 - a. Refer to Specifications and Drawings for schedule of special inspections
 - b. Coordinate with special inspector, testing agencies, local inspectors and Engineer of Record as may be required
 - c. Include all associated cost to participate and support inspections
 - d. Subcontractor shall be responsible for all costs (re-testing, corrective measures, repairs, etc.), at no additional cost to the project, when its installation fails to meet compliance
 - e. Owner and/or Bordeaux Construction reserve the right to request additional testing in the event of significant or continual test failures
 - f. Coordinate with Bordeaux Construction for scheduling of inspections
 - g. Perform quality control testing to demonstrate compliance with contract documents in advance of inspections and 3rd-party testing
11. Concrete floors are finished products; scissor lifts and other non-marking equipment may be allowed upon review of Subcontractor's erection plan with Bordeaux Construction and receipt of written authorization thereof
13. Wash out all concrete materials at designated location; see Site Logistics Plan
14. Daily clean-up of all trash and debris caused by this work
15. Include all necessary crews and equipment as required to facilitate construction progress
16. Pricing is firm, not subject to escalation for duration of project

SPECIFIC EXCLUSIONS

1. Temporary and permanent electric usage costs
2. HVAC Controls and raceways
3. Grounding and bonding of fence and gates
4. Utility transformer pad
5. Athletic field lighting

UNIT PRICES

UP-01	Unsuitable soils (Trench) remove & dispose OFF-SITE	\$ / CY
UP-02	Replacement of unsuitable soils (Trench) with select import fill	\$ / CY
UP-03	Replacement of unsuitable soils (Trench) with #57 stone	\$ / CY
UP-05	FA Horn Strobe	\$ / each
UP-05	FA Pull Station	\$ / each
UP-06	Exit Light	\$ / each
UP-07	FA Smoke Detector	\$ / each
UP-08	Duplex Receptacle	\$ / each
UP-09	Data Outlet	\$ / each
UP-10	Duct Detector	\$ / each
UP-11	Exterior Light	\$ / each
UP-12	Wireless Access Point	\$ / each
UP-13	Underground Conduit Sleeves	\$ / LF

ALTERNATES

Not Applicable

FORM OF PROPOSAL

Project: Pender County K-8 School
NC Highway 210
Hampstead, NC 28443

Bids Submitted To: Bordeaux Construction Company, Inc.

BID PACKAGE: **BP – 26A Electrical**

BIDDER: _____

NC License #: _____

(License applies to BP 02 Surveying, BP 21A Fire Protection, BP 22A Plumbing, BP 23A HVAC, BP23B HVAC & Plumbing, BP 26A Electrical, BP-28A Security Electronics, or others as required by NC Statute)

Date: **Tuesday, August 27th**

Bid Time: **2:00 pm**

The undersigned, as Bidder, hereby declares that the only person or persons interested in this proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this proposal or in the contract to be entered into; that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud. Bidder further declares that he/she has examined the site of the work and the contract documents relative thereto, has read all special provisions furnished prior to the opening of bids, and that Bidder has satisfied themselves relative to the work to be performed.

Bidder proposes and agrees, if this proposal is accepted, to contract with Bordeaux Construction in the form of contract specified in the Bid Manual to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the construction of:

Bid Package 01 – General Requirements
Bid Package 26A Electrical

in full, in complete accordance with the plans, specifications and contract documents, within the contract time as detailed in the Pender County K-8 School Bid Schedule, to the full and entire satisfaction of Owner and Bordeaux Construction with a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and the Contract Documents.

Bid Package: 26A Electrical

BASE BID PRICE

The Base Bid Price includes all Work required by and in strict accordance with the Bid Documents for this Project, for the Lump Sum of:

\$ _____ (Figures only)

ALTERNATES

Should any of the alternates as described in the contract documents be accepted, the amount written below shall be the amount to be "added to" the base bid. Alternate price should include all cost of overhead and profit. Bordeaux Construction and Owner expressly reserve the right to accept or reject any or all Alternate Prices in any sequence. Acceptance or rejection of alternates shall not change the contract duration nor relieve the Bidder of timely completion of work within the time periods indicated in the contract documents.

Not Applicable

ALLOWANCES

Allowances should include all cost of work, overhead and profit to make a complete installation and shall be based upon indicated Quantities and Unit Prices, unless otherwise noted. Use of any allowance shall be as directed by Bordeaux Construction.

All listed allowances shall be included as part of the Base Bid Price:

1. Unsuitable soils (Trench) remove & dispose OFF-SITE; 100 CY	\$ _____.
2. Replacement of unsuitable soils (Trench) with select import fill; 100 CY	\$ _____.
3. Replacement of unsuitable soils (Trench) with #57 stone; 100 CY	\$ _____.
4. FA device (Horn Strobe); five (5) each	\$ _____.
5. FA Smoke Detector or Pull Station; five (5) each	\$ _____.
6. Exit Sign; five (5) each	\$ _____.
7. Smoke Detector; five (5) each	\$ _____.
8. Duplex Receptacle five (5) each	\$ _____.
9. Data Outlet; five (5) each	\$ _____.
10. Duct Detector; five (5) each	\$ _____.
11. Security Type X2 exterior light; five (5) each	\$ _____.
12. Wireless Access Point; five (5) each	\$ _____.
13. Underground Conduit Sleeves; 200 LF	\$ _____.
14. Food Service Equipment Changes; Lump Sum (LS-05)	<u>\$ 5,000</u>
15. Sports Field Lighting; Lump Sum (LS-06)	<u>\$ 900,000</u>
16. Lift Station (NIC) electrical requirements; Lump Sum (LS-07)	<u>\$ 30,000</u>
17. Vape Detection System; Lump Sum (LS-08)	<u>\$ 30,000</u>

UNIT PRICES

Unit prices quoted and accepted shall apply throughout the life of the contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in the base bid quantity of the work all in accordance with the contract documents. Bordeaux Construction reserves the right to reject, negotiate or accept all unit prices prior to contract award.

UP-01 Unsuitable soils (Trench) remove & dispose **OFF-SITE** \$ _____ / **CY**

UP-02	Replacement of unsuitable soils (Trench) with select import fill	\$ _____ / CY
UP-03	Replacement of unsuitable soils (Trench) with #57 stone	\$ _____ / CY
UP-04	Horn Strobe	\$ _____ / each
UP-05	Pull Station	\$ _____ / each
UP-06	Exit Light	\$ _____ / each
UP-07	Smoke Detector	\$ _____ / each
UP-08	Duplex Receptacle	\$ _____ / each
UP-09	Data Outlet	\$ _____ / each
UP-10	Duct Detector	\$ _____ / each
UP-11	Security Type X2 Exterior Light	\$ _____ / each
UP-12	Wireless Access Point	\$ _____ / each
UP-13	Underground Conduit Sleeves	\$ _____ / LF

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **Also** list the good faith efforts (Affidavit **A**) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - Bordeaux Construction will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

* OR *

If less than the 10% goal, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MB contractors, vendors and suppliers that will be used. Affidavit **A** or Affidavit **B**, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid.

Proposal Signature Page

Bidder further proposes and agrees to commence work under this contract on a date to be specified by Bordeaux Construction and shall pursue the scope of work included in its contract in accordance with the schedule prepared by Bordeaux Construction.

Respectfully submitted this,

_____ Day of _____, _____
(Write the Date of the Month in Words) (Write the Name of the Current Month & Year)

WITNESS:

(Witness Signs here if you are a Proprietorship or Partnership)

By: _____
(Printed Name of Person Signing Bid)

(Signature)

ADDRESS:

TITLE: _____
(Owner, Partner, President or Vice President)

LICENSE #: _____

FEDERAL ID#: _____

ATTEST:

By: _____

(CORPORATE SEAL)

TITLE: _____
(Corporate Secretary or Asst. Secretary Only)

Bid Manual received and used in computing bid (Initial here) _____

Addendum received and used in computing bid. Failure to acknowledge receipt of addendum may result in bid being considered non-responsive. (Initial each as applicable)

Addendum No. 1 _____ Addendum No. 2 _____ Addendum No. 3 _____ Addendum No. 4 _____

Bordeaux Construction Clarification received and used in computing bid. Failure to acknowledge receipt of clarification may result in bid being considered non-responsive. (Initial each as applicable)

Clarification No. 1 _____ Clarification No. 2 _____ Clarification No. 3 _____ Clarification No. 4 _____
Clarification No. 5 _____ Clarification No. 6 _____ Clarification No. 7 _____ Clarification No. 8 _____