The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

A2.1 GENERAL MODIFICATIONS:

A. Refer to the Advertisement for Bids, Change as follows:

1. The sealed proposal as described above shall be received by Mr. Richard Dennis, Superintendent, at the Elmore County Board of Education, 100 H.H. Robison Drive, Wetumpka, Alabama, until 2:00 PM, Wednesday, June 17, 2020, then opened and read aloud.

A2.2 SPECIFICATION MODIFICATIONS:

A. Refer to Section 03350, Bonded Abrasive Polished Concrete Floors, Page 2 [Revised 6.9.20], herein.

B. Refer to Section 12000, Welding Booths [Revised 6.9.20], herein.

C. The following manufactures are hereby approved subject to the plans and specifications:

   Section 07115, Bituminous Dampproofing – Karnak Corp. | Clark, NJ | Ph.:1.800.526.4236

   Section 07410, Preformed Metal Roof – Berridge Manufacturing, San Antonio, TX | Ph.:1.800.669.0009

   Section 12304, Laminate Clad Casework – Cabinets by Design, LLC, (USA-Millwork), Duluth, GA | Ph.:803.840.2018

   Section 15700, Heating, Ventilating and Air Conditioning – Greenheck, MSX Makeup Air Units, Schofield, WI | Ph.:205.942.7081

A2.3 DRAWING MODIFICATIONS:

A. NONE
A2.4 CLARIFICATIONS:

A. All concrete slab areas to receive Polished Concrete shall have F(F) concrete flatness as indicated in Section 03350, Bonded Abrasive Polished Concrete Floors. All other concrete areas to have F(F) concrete flatness as indicated in Section 03310, Concrete.

B. This project has both manual and electric Insulated Coiling Overhead Doors. Door at Hanger is Electric operated. Door at rear is manual operated.

END OF ADDENDUM
installed to achieve the following:

1. Abrasion Resistance: ASTM C779, Method A, high resistance, no more than 0.008 inch (0.20 mm) wear in 30 minutes.
2. Reflectivity: Increase of 35% as determined by standard gloss meter.
3. Waterproof Properties: Rilem Test Method 11.4, 70% or greater reduction in absorption.

B. Design Requirements:

1. Hardened Concrete Properties:
   a. Minimum Concrete Compressive Strength: 3500 psi (24 MPa). As indicated on Structural Drawings.
   b. Normal Weight Concrete: No lightweight aggregate. Lightweight concrete requires special installation techniques.
   c. Non-air entrained.
   d. Maximum W/Cm ratio of 0.50. As indicated on Structural Drawings.

2. Placement Properties:
   a. Natural concrete slump of 4 inches - 5 inches (100 - 127 mm). Admixtures may be used.
   b. Flatness Requirements:
      i. Overall FF 50.
      ii. Local FF 40.

3. Hard-Steel Troweled (3 passes) Concrete: No burnishing marks. Finish to ACI 302.1R, Class 5 floor.

4. Curing Options:
   a. Membrane forming curing compounds (ASTM C309, Type 1, Class B, all resin, dissipating cure).
      i. Acrylic curing and sealing compounds NOT recommended.
   b. Sheet membrane (ASTM C171); polyethylene film not recommended.
   c. Damp Curing: Seven day cure.
   d. Non-membrane curing compound.

SUBMITTALS

A. General: Submit listed action submittals in accordance with Contract Conditions and Section 01330- Digital Submittal Procedures.

B. Shop Drawings: Indicate information on shop drawings as follows:

1. Typical layout including dimensions and floor grinding schedule.
2. Plan view of floor and joint pattern layout.
3. Areas to receive colored surface treatment.
   a. No color application on this project.
4. Hardener, sealer, densifier in notes.

C. Product Data: Manufacturer’s technical literature for each product indicated, specified, or required. Include manufacturer’s technical data, material safety data sheets, product sheets, application instructions, and recommendations.
SECTION 12000 – WELDING BOOTH (Revised 6.9.20)

PART 1 – GENERAL

GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

DESCRIPTION OF WORK:

Extent of welding booths is indicated on drawings and listed herein.

Provide a welding booth (or welding booths) with the purpose and means of ventilating harmful welding fumes and particulate from several welding processes for the protection the welder or student.

The booth design allows for continuous ventilation without the requirement for positioning a fume arm or a special hood design.

QUALITY ASSURANCE:

SUBMITTALS:

Product Data: Submit manufacturer's technical data and installation instructions.

PART 2 – PRODUCTS

Manufacturer(s):

1. Avani Environmental; www.avanienvironmental.com; 6541 Meridien Drive, Suite 125, Raleigh, NC 27616; Phone: 919.570.2862

2. Equal products of other manufacturers may be used in the work, provided such products have been approved, by the Architect, not less than Ten (10) days prior to scheduled bid opening.

Materials:

1. Welding Booths Series WB-ECO-1000
   a. Model WB-ECO-1055; 5’ x 5’ walk-in booth.
   b. Model WB-ECO-5’ x 10’ walk-in booth.
   c. Panel construction: 16 gauge welded steel.
   d. Three piece construction (2) side panels (1) back panel. Booths can be mounted back to back and/or side to side and based on configuration will share common walls.
   e. 1.5’ square stock support.
   f. Walk-in booth.
   g. Powder coated: Avani Blue Standard color.
   h. Adjustable feet with mounting plate.
   i. Welding curtain rod.

Configuration

Booth configuration as indicated on drawings.
The welding booth are manufactured with a standard engineered load-bearing rear panel and mounting-bracket that supports the booth’s weight, overhead ducting, electrical conduit and gas plumbing lines.

Side panels are non-load bearing and can removed and relocated without causing structural instability.

The hood and back-draft exhaust is integral and has one outlet connection servicing both sections with a common rectangular to round ductwork connection.

The booth has one five components (back panel, back draft assembly, two side panels and hood) that make up an individual booth.

The unit shall be configured to allow for pre-plumbed gas manifolds for the welding process and customer specified quantity, material, and gas specific plumbing lines and shall be supplied in a protective enclosure and top mounted field connections.

The unit shall include an electrical receptacle for hand tools or grinders and a ON/OFF light switch for provided LED light fixtures/lamps.

The Fume arm brackets are standard and come standard with a cover plate for future use mounted on the bottom face of the canopy hood section and included (2) plates with a six bolt mounting pattern.

1. System accessories include:
   a. Work tables solid or grated (downdraft also available)
   b. Corner shelves
   c. Custom welding brackets and or fixtures
   d. Support j-hooks for mounting welding leads
   e. Brackets for inverters/wire feeders
   f. Storage lockers for helmets and personal protection gear
   g. Welding curtains
   h. Custom paint color or finish

Construction:

Booths shall be constructed from heavy-duty 12-gauge welded steel (double walled with internal stiffeners) with a powder coated paint finish for durability.

Support structure includes a frame of 1.5"D x 4"W square steel stock fully welded.

Rear top bracket support structure shall include (2) 12"H x 19"W 30-degree gussets for mounting of overhead ductwork, electrical conduit, gas plumbing, compressed air, and additional utilities that may be required for installation.

Lifting lugs shall be included and mounted at (4) positions for erection and assembly of each welding booth.

Leveling system shall include (6) 2.5"D mounting feet with an adjustment range of 5"H FFL to level booths to companion booths.

Adjustable welding curtain rod brackets shall be included that support welding curtains; and accept pipe or conduit as means of a curtain rod.

Welding booths shall include (2) UL-approved LED dust-tight light fixtures complete with lamps and 110v/1ph/60Hz wiring.

Manual slot cover adjustment knobs shall include (15) 2.5"D five star twist knobs.

Clean out drawer removable for cleaning of hood section (backdraft section) shall be included with each booth and standard size is 6"H x 44.7"L with hand twist locks.
**Operation**

The welding booths shall include a manual adjustable backdraft hood with a combination top canopy-mounted hood with adjustable slots with flat & angled slot covers and manual hand knobs that allow for adjustment to face and or slot velocity of each hood section.

**PART 3 – EXECUTION**

**INSTALLATION:**

Install in accordance with manufacturer's instructions, using fasteners which are appropriate to substrate and recommended by the manufacturer of unit. Install units plumb and level, firmly anchored in locations indicated.

**ADJUSTING AND CLEANING:**

Replace damaged or defective items.

END OF SECTION