

ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

**Interior & Exterior Renovations Missouri 4H Building
Missouri State Fair Grounds
Sedalia, Missouri
PROJECT NO. F2407-01**

Bid Date is: 1:30 PM, Thursday, October 30, 2025

Bidders are hereby informed that the Construction Plans and/or Specifications are modified as follows:

BID FORM CHANGES:

1. None

SPECIFICATION CHANGES:

1. Section 233716 – HVAC NON-METAL DUCTWORK
 - a. Add entire section.

DRAWING CHANGES:

1. None

GENERAL COMMENTS:

1. The Pre-Bid Meeting was held October 15, 2025 followed by a walk-through of the site. The Pre-Bid Meeting sign-in sheet is attached.
2. Bidders needing additional site inspection should contact Justin Anderson at 660.317.8740 to schedule a time.
3. Please contact Mandy Roberson, Contract Specialist, at 573.522.0074 or mandy.roberson@oa.mo.gov, for questions about bidding procedures and MBE/WBE/SDVE goals and submittal requirements.
4. The deadline for technical questions in Noon on October 22, 2025.
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
7. Current Planholders list available online at: [F2407-01 Interior & Exterior Renovations Missouri 4H Building-State Fairgrounds :: State of Missouri Office of Administration](#) Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 1C, Columbia MO 65201, 573-446-7768 to order official plans and specifications.
8. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled including a bid amount for the alternates. Failure to do so will result in rejection of the bid.**
9. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good**

Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.

ATTACHMENTS:

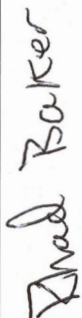
1. Pre-bid Sign in sheet October 15, 2025
2. DIVISION 23, Specification 233716 – HVAC NON-METAL DUCTWORK

October 16, 2025

END ADDENDUM NO. 1

Pre-Bid Meeting Attendance Sheet
Missouri State Fair Grounds
Interior & Exterior Renovations Missouri 4H Building
Sedalia, MO

Project No. F2407-01
October 15, 2025

Name & Title	Company Name & Type of Contracting	MBE/WBE/SDVE Status	Phone	E-Mail Address of Attendee
L. Scott Samuels, PE PMU PMU Project Manager	OA FMDC	-NA-	573.690.6760	scott.samuels@oa.mo.gov ✓
Jared Cook  PMU Project Supervisor	OA FMDC	-NA-	573.690.6733	jared.cook@oa.mo.gov
Dustin Cooper Construction Project Manager	OA FMDC	-NA-	573.536.1692	dustin.cooper@oa.mo.gov
 Kenny City Estimator	TS comparisons		816 269 0084	Kenny City Estimator electrical.com
 Chad Baker RBC Const			573-489-6470	Chad - Baker@yahoo.com
 Kyle Cullen Owner	Cullen Mechanical	y	816-894-8997	K Cullen@CullenMechanicalKC.com

Jesse Flower

OA FMDC

jesse.flower@oa.mo.gov

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Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee
Nick Fiestrowski General Manager	Raising Solutions Foundation Projects		573.536.2725	NFIEZIMM@RAISING-SOLUTIONS.COM
Chase Halsey Senior Project Manager	Mid Continental Restoration	No	620-704-2733	chase-halsey@midcontinental.com
Roger Simpson	Lumix Electrical		573- 620 220-2232	rsimpson@lumixelectrical.com
Scott Harris PM / Estimator	Lumix Electrical	no	816-518-1660	sharris@lumixelectrical.com
Molly Ryan Business Development Manager	CNC Foundations		314-409-5956	mollyd@cncfoundations.com
BRIAN BOMAN Business Dev. Manager	PULLMAN	NO	816-727-5626	bboman@pullman-services.com

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Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee
Chris Halem	C&E Excavating		660-829-3478	Chris@Candeexcavating.net
John Hunter	Westport Constructors		660-985-2231	Bids@wccmo.com
BJ Bax	Summit Mechanical		573 338 6167	barbj@att.net
Mason Goosen	Goosen Electric		660-473-2483	sherry@goosenelectric.com
Ben Hash Estimator/Project Mgr	Ivey Roofing	SDVE	417-531-3818	ben.iveyroofing@gmail.com
Aaron Kennedy	Robert Rollings Architects		660-829-9751 x1	aaron@rollingsarchitects.com

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Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee
Clay Massey PM	CER Construction		816-529-9903	CLAYMAN@CERCON.ORG
Bill Cowell	All-Spec Metal Systems		573-896-5909	bill@allspecms.com
Dan START	START INC		314-743-0669	DAN@STARTINC.COM
Justin Rogers PM / GC	Brown & Root		573 301 4995	Justin.Rogers@ Brownandroot.com
Kevin Joss PM/GC	Curtiss Mares Schulte		573-392-6553	KJOSSE@CMS-GC.COM
John Pile Construction Architects	Midwest Alarm Services		573 864-8890	john.pile@mw-as.com
Rickmullin Tailor made Extensions			816-347- 8328	Rick@TMEXT.com

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Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee
Treston Morris Est./PM	GeoSupport Systems	N/A	(913) 368-3655	treston@geosupport.us
Mike Mann PM	Innovative Mason Restoration	N/A	816-841-7455	mike@imbestoration.com
Greg Reinhold	Reinhold Electric		314-604-2871	greg@reinholdelectric.com
Ashley Krumme / Estimator	Prost Builders		573-508-8999	estimating@prostbuilders.com
Brad Hagerman	Home Hts / Hearland		660 827 0101	info@homehts.com brad.hagerman@icloud.com
Clayton Gause / APM	PCE Construction		717-424-1312	cgausc@PCE-MO.com

SECTION 233716 - HVAC NON-METAL DUCTWORK

PART 1 GENERAL

1.1 DESCRIPTION OF WORK:

- A. Extent of non-metal ductwork is indicated on drawings and by requirements of this section.
- B. Types of non-metal ductwork required for this project include the following:
 - 1. Textile Air Dispersion Products.

1.2 QUALITY ASSURANCE:

- A. Building Codes and Standards:
 - 1. Product must be Classified by Underwriter's Laboratories in accordance with the 25/50 flame spread / smoke developed requirements of NFPA 90-A and UL 2518. Also Classified by UL-C (Canada) S102.2, BS 5867 Part 2, 1980; GB8624-2006.
 - 2. All product sections must be labeled with the logo and classification marking of Underwriter's Laboratories.
- B. Design & Quality Control
 - 1. Manufacturer must have documented design support information including duct sizing; vent, orifice, and/or nozzle location; vent, orifice, and/or nozzle sizing; length; and suspension. Parameters for design, including maximum air temperature, velocity, pressure and textile permeability, shall be considered and documented.
 - 2. Manufacturer's Environmental Product Declaration (EPD) must be inclusive of the following:
 - a. Fabric
 - b. Cutting, sewing, processing of DuctSox
 - c. Zippers
 - d. Metal suspension system parts and framework (if applicable)
 - e. Energy, water, recycled & waste of plant processing fabric & suspension
 - f. Complete packaging including boxes, bags & staples
 - g. Transportation

1.3 SUBMITTALS:

- A. Product Data: Submit manufacturer's specifications on materials and manufactured products used for work of this section.
- B. Building Code Data: Submit UL file number under which product is Classified by Underwriter's Laboratories for both NFPA 90-A and UL 2518.
- C. Provide detailed drawings confirming configuration of Fabric Tensioning System (components, support locations, segment lengths) and Textile Dispersion System (diameter, lengths, airflow, pressure, and textile permeability).
- D. Provide detailed installation instructions for components to be installed.
- E. Provide warranty and maintenance documentation.
- F. Provide product's Environmental Product Declaration (EPD) that includes the following:
 - 1. Fabric
 - 2. Cutting, sewing, processing of DuctSox
 - 3. Zippers
 - 4. Metal suspension system parts and framework (if applicable)
 - 5. Energy, water, recycled & waste of plant processing fabric & suspension
 - 6. Complete packaging including boxes, bags & staples
 - 7. Transportation

1.4 WARRANTY:

- A. Manufacturer must provide a 15 Year Product Warranty for products supplied for the fabric portion of this system as well as a Design and Performance Warranty.

1.5 DELIVERY, STORAGE AND HANDLING:

- A. Protect textile air dispersion system and SkeleCore FTS components from damage during shipping, storage, and handling.
- B. Where possible, store products inside and protect from weather. Where necessary to store outside, store above grade and enclose with a vented waterproof wrapping.

PART 2 – PRODUCTS

2.1 MANUFACTURERS:

Subject to compliance with requirements, choose one of the following:

- A. DuctSox[®] Corporation
Phone: (866) DUCTSOX or (563) 588-5300

www.DuctSox.com

- B. FabricAir: <https://www.fabricair.com/us/>
- C. Hero Fabriduct : <https://www.herofabriduct.com>

2.2 TEXTILE AIR DISPERSION SYSTEM:

- A. SkeleCore FTS (Fabric Tensioning System): Air diffusers shall be constructed with internal tensioning frame.
 - 1. System shall cylindrically tension textile along the entire length of textile duct, including all fittings(crosses, elbows, reducers and tees).
 - 2. Tensioning system shall include full 360 degree tensioning and intermediate rings with quick connection spacer tubes concealed inside the fabric system.
 - 3. Interior structure to include multiple mechanically adjustable tension devices. To provide proper textile tensioning, structural and textile system shall be configured in segments of no more than 45 feet.
 - 4. Textile components supported solely by metal cylindrical rings.
 - 5. Each cylindrical ring shall require a vertical metal to metal cable safety attachment.
 - a. Vertical supports are Galvanized steel with available lengths of 5'(standard), 10', 15', & 30'.
 - 6. Available for diameters from 8" – 84".
 - 7. Not available for natatorium applications.

B. TEXTILE

- 1. Verona
 - a. Textile Construction: Filament/filament twill polyester, fire retardant in accordance with UL 2518.
 - b. Air Permeability: 2 (+2/-1) CFM/ft² per ASTM D737, Frazier
 - 1. The air permeability of the fabric must NOT be created by perforating the fabric.
 - 2. The air permeability must be confirmed by third party testing to eliminate the formation of condensate on the fabric.
 - c. Weight: 6.8 oz. /yd² per ASTM D3776
 - d. Warranty: 15 years with standard inlet velocity.
- 2. Textile Color
 - a. Standard: blue, white, tan, red, green, silver, black

b. Custom

C. TEXTILE SYSTEM FABRICATION REQUIREMENTS:

1. Textile system to be constructed in modular lengths (zippered) with proper radial securing clips (inlets, endcaps, and mid-sections) and top access zippers for vertical cable safety attachment.
2. Integrated air dispersion shall be specified and approved by manufacturer. (select only those that apply)

a. Linear Vents

1. Air dispersion accomplished by linear vent and permeable fabric. Linear vents must be sized in 1 CFM per linear foot increments (based on .5" SP), starting at 1 CFM through 90 CFM per linear foot. Linear vent is to consist of an array of open orifices rather than a mesh style vent to reduce maintenance requirements of mesh style vents. Linear vents should also be designed to minimize dusting on fabric surface.
2. Size of vent openings and location of linear vents to be specified and approved by manufacturer.

b. Orifices

1. Air dispersion and extended throws are accomplished by reinforced orifices and permeable fabric. Reinforced laser-cut orifices retain the integrity of the opening and withstand laundry processes.
2. Diameter, quantity, and location of reinforced orifices to be specified and approved by manufacturer.

c. Fixed Nozzles

1. Air dispersion accomplished by using conical aerodynamic nozzles and permeable fabric. Diameter of nozzle height to be minimum 1/2". Due to exact requirements of throw and maximum level of noise alternative flow models are not acceptable.
2. Color of nozzles must match color of fabric. Unless otherwise specifically mentioned on drawings or otherwise in this specification, suppliers standard table is used for selection of color.
3. Location and number of nozzles to be specified and approved by manufacturer.

d. Adjustable Nozzles

1. Air dispersion accomplished by adjustable ball nozzles and permeable fabric. Adjustable ball nozzles to have multiaxial rotation to redirect airflow to desired area. Adjustable ball nozzles are able to completely close off airflow without adding caps or plugs. Adjustable ball nozzles should lock into place once set, preventing constant adjustment. Adjustable ball nozzle should have inset design to be a condensation resistant product.
2. Colors of adjustable nozzles available are white and black. With white material receiving white adjustable nozzles and all other material colors receiving black adjustable nozzles unless otherwise specifically mentioned on drawings or otherwise in the specification.
3. Quantity and location of adjustable ball nozzles to be specified and approved by manufacturer.
3. Inlet connection to metal duct via fabric draw band with anchor patches as supplied by manufacturer. Anchor patches to be secured to metal duct via. zip screw fastener – supplied by contractor.
4. Inlet connection includes zipper for easy removal / maintenance.
5. Lengths to include required intermediate zippers as specified by manufacturer.
6. System to include Adjustable Flow Devices to balance turbulence, airflow and distribution as needed. Flow restriction device shall include ability to adjust the airflow resistance from 0.06 – 0.60 in w.g. static pressure.
7. End cap includes zipper for easy maintenance.
8. Each section of the textile shall include identification labels documenting order number, section diameter, section length, piece number, code certifications and other pertinent information.

D. DESIGN PARAMETERS:

1. Textile air diffusers shall be designed from 0.25” water gage minimum to 3.1” maximum, with 0.5” as the standard.
2. Textile air diffusers shall be limited to design temperatures between 0 degrees F and 180 degrees F (-17.8 degrees C and 82 degrees C).
3. System overall design; diameter, length, airflow, operating static pressure and dispersion shall be designed or approved by the manufacturer.
4. Do not use textile diffusers in concealed locations.

5. Use textile air dispersion systems only for positive pressure air distribution components of the mechanical ventilation system.

PART 3 – INSTALLATION

3.1 INSTALLATION OF TEXTILE AIR DISPERSION SYSTEM:

- A. Install chosen suspension system in accordance with the requirements of the manufacturer.
Instructions for installation shall be provided by the manufacturer with product.

3.2 CLEANING AND PROTECTION:

- A. Clean air handling unit and ductwork prior to the DuctSox system unit-by-unit as it is installed.
Clean external surfaces of foreign substance which may cause corrosive deterioration of facing.
- B. Temporary Closure: At ends of ducts which are not connected to equipment or distribution devices at time of ductwork installation, cover with polyethylene film or other covering which will keep the system clean until installation is completed.
- C. If DuctSox systems become soiled during installation, they should be removed and cleaned following the manufacturers standard terms of laundry.

END OF SECTION 233716