Statement of Work: Audio/Visual(AV) Equipment and Installation (BLDG 3576 & 3701)

Project Name: 154th Regional Training Institute 3576 Classroom AV update and 3701 Conference Room AV Installation

1. **Introduction & Project Overview**

   This document outlines the scope of work for the supply and installation of audio/visual equipment and related services for the 154th Regional Training Institute at Buildings 3576 and 3701, Camp Shelby, Mississippi. The goal of this project is to upgrade and enhance the AV capabilities in classrooms, conference room, and hallway within the buildings to support improved training and live streaming capabilities.

   The scope includes the supply of equipment, professional installation, configuration, and testing to ensure high-quality audio/visual experience for all users.

   The contractor shall install only commercial-grade A/V products throughout the installation to ensure durability, reliability, and consistent performance in a professional environment. All equipment must be designed and rated for continuous, heavy use typical of commercial settings. The contractor is responsible for adhering to industry standards and manufacturer guidelines during installation to guarantee system robustness, ease of maintenance, and long-term functionality suitable for high-traffic areas.

2. **Project Goals & Objectives**
   - **Goal 1:** Upgrade 10 classroom AV systems to support opposing Instructor-Facing Displays for presentation and instruction
     - Objective 1: Update and Install opposing Instructor-Facing Displays with wireless video/audio extender and HDMI distribution
       - Intent is for Instructors to plug in GFE laptop via HDMI and project onto both TVs and have camera access for virtual classroom attendance if needed.
   - **Goal 2:** Install AV systems in 3701 to support video conferencing and/or presentation
     - Objective 1: Install A/V systems in Conference Room to support high-quality video conferencing and presentation

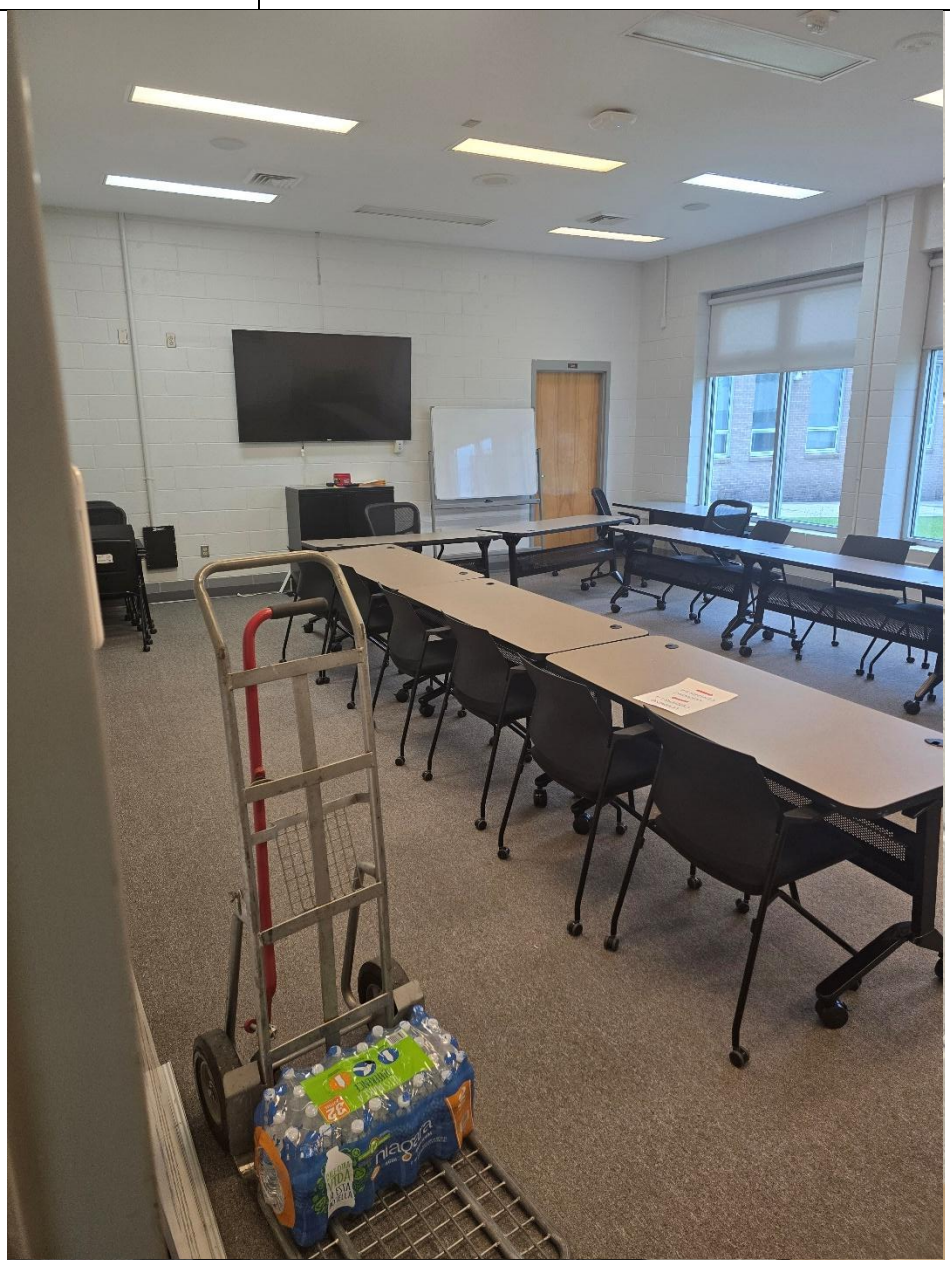
        - Intent is for personnel to plug in GFE laptop and conference via Microsoft Teams
    - Objective 2: Install digital display in Instructor Hallway that integrates with pre-existing unit software (LG SuperSign CWS ver 4.0.0) to display class schedules

3. **Scope of Supply**

CLIN 0001 – Building 3576 BLC

Item No.	Item	Item Description	Qty
1	Large Format Commercial Display	A professional-grade digital display, 75-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for commercial use (e.g., 16/7 operation).	20
2	Universal Tilting Wall Mount	A UL-listed, professional-grade tilting wall mount compatible with the specified display's VESA pattern and weight capacity.	20
3	Enterprise Wireless Presentation System	A 4K-capable wireless screen sharing gateway that supports native, app-free casting for major operating systems (e.g., Miracast, AirPlay, Google Cast).	10
4	AI-Powered 4K Conference Camera	A USB-connected conference room camera with a 4K image sensor, featuring software-driven AI capabilities like intelligent auto-framing and auto-tracking.	10
5	Wall-Mounted HDMI Input Plate	A single-gang, Decora-style wall plate providing one (1) female HDMI pass-through connection for user device input.	10
6	12 ft. High-Speed HDMI Cable	A 12-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant.	10
7	6 ft. High-Speed HDMI Cable	A 6-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant.	10
8	50 ft. Active Optical HDMI Cable	A 50-foot Active Optical HDMI Cable (AOC) rated for in-wall installation, certified to carry an 18Gbps signal over long distance without degradation.	10
9	1-in, 2-out HDMI Distribution Amplifier	A compact device designed to split a single HDMI source into two (2) simultaneous outputs, supporting 4K/60Hz video and HDCP 2.2 compliant.	10

10	15 ft. High-Speed USB-C Cable	A 15-foot USB-C male-to-male cable supporting a minimum data rate of 10Gbps and DisplayPort Alternate Mode for 4K video transmission.	10
11	Commercial-Grade Power Strip	A UL-listed power distribution unit with a minimum of six (6) outlets and integrated surge protection, suitable for mounting within a cabinet or behind a display.	20



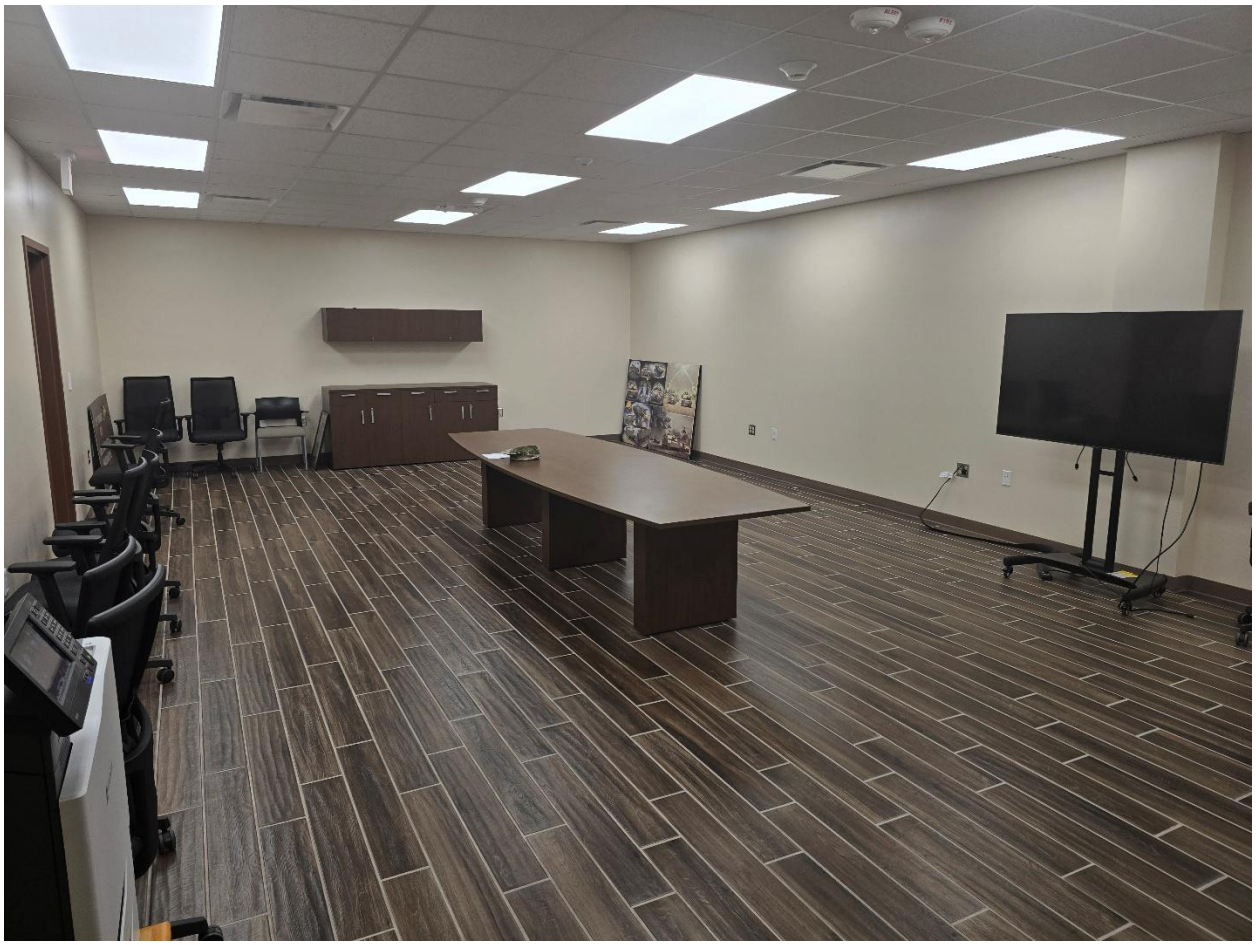
Current cast setup is using ScreenBeam.

Example Classroom. All classrooms will have similar layouts.

CLIN 0002 – Building 3701 Conference Room

Item No.	Item	Item Description	Qty
1	Extra-Large Format Commercial Display	A professional-grade digital display, 85-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for continuous commercial use (e.g., 16/7 operation).	1
2	Large Format Commercial Display	A professional-grade digital display, 75-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for continuous commercial use (e.g., 16/7 operation).	2
3	Micro-Adjustable Tilting Wall Mount	A UL-listed, professional-grade tilting wall mount with post-installation micro-adjustment capabilities, compatible with the specified displays' VESA patterns and weight.	3

4	In-Wall Component Storage Box	A metal in-wall storage box with a mounting plate (approx. 15" x 10") designed for concealing small A/V devices discreetly behind a wall-mounted display.	1
5	Ceiling Array Microphone System with USB Interface	A networked ceiling array microphone (square form factor) with automatic coverage technology. Must include an audio network interface to convert Dante audio to a USB connection for PC-based conferencing.	1
6	PoE+ Network Switch with Dante Optimization	A managed network switch with sufficient PoE+ (Power over Ethernet) budget for all connected devices, pre-configured or optimized for Dante audio-over-IP network traffic.	1
7	AI-Powered Large Room Conference Camera	A USB-connected conference camera designed for large meeting rooms, featuring a 4K image sensor and AI-directed functionality such as "Genius Framing" or dynamic group framing.	1
8	Wall-Mounted HDMI Input Plate	A single-gang, Decora-style wall plate providing one (1) female HDMI pass-through connection for user device input.	1
9	12 ft. High-Speed HDMI Cable	A 12-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant.	2
10	6 ft. High-Speed HDMI Cable	A 6-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant.	1
11	50 ft. Active Optical HDMI Cable	A 50-foot Active Optical HDMI Cable (AOC) rated for in-wall installation, certified to carry an 18Gbps signal over long distance without degradation.	2
12	1-in, 4-out HDMI Distribution Amplifier	A compact device designed to split a single HDMI source into four (4) simultaneous outputs, supporting 4K/60Hz video and HDCP 2.2 compliant.	1
13	15 ft. High-Speed USB-C Cable	A 15-foot USB-C male-to-male cable supporting a minimum data rate of 10Gbps and DisplayPort Alternate Mode for 4K video transmission.	2



Taken from the double doors

Taken from the single door

CLIN 0003 - 3701 Instructor Hallway

Item No.	Item	Item Description	Qty
1	Medium Format Digital Signage Display	A professional-grade digital display, 55-inch class, with an integrated System-on-Chip (SoC) for content management and playback. Must be rated for extended commercial use and work with existing software	1
2	Medium Tilting Wall Mount	A UL-listed, professional-grade tilting wall mount with post-installation leveling, compatible with the specified display's VESA pattern and weight capacity.	1
3	Network Cabling and Termination	Provide one (1) new Category 6 (or better) network drop from the nearest telecommunications room (IDF) to a single-gang wall plate behind the display location. The drop shall be terminated with a certified RJ45 keystone jack.	1
4	Ethernet patch cable	Factory-terminated Category 6 Ethernet patch cable to connect the display to the network wall plate.	1

EXIT
Fire Exit
ELEC

CLIN 0004 - Services

Item No.	Item	Item Description	Qty
1	Installation Services (Location 3576)	Contractor shall provide all labor, tools, and materials required to install the equipment listed in CLINs 0001, 0002, and 0003 at Location 3576 in accordance with the Statement of Work	1
2	Installation Services (Location 3701)	Contractor shall provide all labor, tools, and materials required to install the equipment listed in CLINs 0001, 0002, and 0003 at Location 3701 in accordance with the Statement of Work.	1
3	Clean-up and Debris Removal (Location 3576)	Contractor shall remove and properly dispose of all project-related debris and packaging materials from Location 3576 upon completion of installation.	1

4. Scope of Installation

- **Supervision & Labor:** Contractor/Offeror shall provide all supervision, installation labor, equipment, material, and supplies necessary for the installation of listed AV components in Buildings 3576 and 3701.
    i. All installation work shall be performed during normal business hours (e.g., 0800 - 1630, Monday - Friday) unless otherwise approved by the Government POC. The Contractor is responsible for obtaining necessary base access passes via the Visitor Control Center.
- **Mounting:** Contractor/Offeror shall securely mount all commercial-grade displays, cameras, speakers, and other hardware per manufacturer guidelines and industry best practices, ensuring structural integrity and aesthetics.
    i. Bldg 3576 walls are painted Concrete Masonry Units/cinderblocks
    ii. Bldg 3701 walls are drywall with metal studs
    iii. Display Mounting Height: The Contractor shall mount all displays to ensure optimal viewing ergonomics and compliance with relevant standards. The mounting height shall be determined by the primary viewing sightlines for each room. As a baseline, the center of the display should be mounted between 48 and 60 inches above the finished floor (AFF). The final height must be approved by the Government Point of Contact (POC) prior to drilling. All installations must comply with

Americans with Disabilities Act (ADA) guidelines for protruding objects and reach ranges.

- **Wiring & Cabling:** Contractor/Offeror shall run and terminate all power, signal, and data cables with neat, concealed routing where feasible (including in-wall and raceways).
    i. All ceilings are drop-tile with access
- **System Configuration:** Contractor/Offeror shall configure AV equipment including display settings, audio levels, HDMI distribution, wireless extender setup, and network connectivity.
- **Control System Programming:** Contractor/Offeror shall program control interfaces where applicable to enable intuitive operation of AV systems.
- **Testing & Commissioning:** Contractor/Offeror shall conduct comprehensive testing of all components and full system to verify functionality and performance.
- **Site Preparation:** Site preparation, such as patching walls or conduit installation, is the responsibility of the government unless otherwise specified.
- **Power Requirements:** The government shall verify adequate power supply and install necessary power distribution units (PDUs).
- **Network Coordination:** Collaborate with the government's IT department to ensure proper network configuration and connectivity.
    i. 3701 IDW/network room is accessible via drop ceiling for the purposes of LG SuperSign connectivity
    ii. Connection will be on Commercial/non-NIPR switch
    iii. "Building 3701 Network & Conferencing Architecture:
        1. The AV system shall be designed around a Bring Your Own Device (BYOD) architecture. All AV hardware components (cameras, microphones, displays, and control processors) shall communicate on a localized, standalone AV network provided by the Contractor. This AV network must be physically isolated (air-gapped) and shall not be connected to the facility's enterprise military network (e.g., NIPRNet).

2. Video conferencing capabilities (e.g., MS Teams) will be facilitated by users connecting their Government-furnished laptops to the room's AV peripherals via a contractor-provided USB docking station or USB hub located at the conference table. The user's device will provide the secure network connection for the conference call.

- **Clean-up:** The Contractor shall turn in all operational, removed electronic equipment, such as displays and wireless casting devices, to the designated Government property representative.

5. Project Timeline

- The Contractor/Offeror shall ensure all commercial grade A/V equipment is on ground with appropriate installation labor to install said equipment with a target completion date of no later than 30 days after award of contract.

6. Warranty and Technical Support Services

- 6.1 Contractor Workmanship Warranty
    - The Contractor shall provide a one (1) year comprehensive workmanship warranty beginning on the date of final Government acceptance of the system. This warranty shall cover all installation services, cabling, physical mounts, and system integration. Any defects in installation identified during this period shall be corrected by the Contractor.
- 6.2 Equipment Warranties
    - The Contractor shall pass through all manufacturer warranties for all provided hardware (displays, ScreenBeam units, cameras, microphones, etc.) to the Government.
- 6.3 Service & Support Response Times
    - During the one-year warranty period, the Contractor shall provide technical support under the following response thresholds:
        - Telephone/Email Support: The Contractor shall acknowledge and respond to Government technical inquiries within forty-eight (48) hours.

7. Exclusions

- Structural modifications to the building.
- IT network infrastructure upgrades beyond AV system connectivity.
- Content creation for digital signage or presentations.
- Crestron products are excluded from list of acceptable products due to MSARNG and Camp Shelby AV policy