



MISSISSIPPI STATE
UNIVERSITY™

INVITATION FOR BIDS

OFFICE OF PROCUREMENT SERVICES

1. INSTRUCTIONS FOR BIDDERS

- a. Sealed bids will be received in the Office of Procurement Services, Mississippi State University, for the purchase of the items listed herein.
- b. All bids must be received in the Office of Procurement Services on or before the bid opening time and date listed herein. Delivery of bids must be during normal working hours, 8:00 a.m. to 5:00 p.m. CST, except on weekends and holidays when no delivery is possible.
- c. Bidders shall submit their bids either electronically, in Bully Buy, or in a sealed envelope. Bids CANNOT be emailed
 - a. Sealed bids should include the bid number on the face of the envelope as well as the bidders' name and address. Bids should be mailed to : 405 Garrard Road E, Starkville, MS 39759.
- d. All questions regarding this bid should be directed to the Office of Procurement Services at 662-325-2550.

2. TERMS AND CONDITIONS

- a. All bids should be bid "FOB Destination"
- b. Bidders must comply with all rules, regulations, and statutes relating to purchasing in the State of Mississippi, in addition to the requirements on this form. General Bid Terms and Conditions can be found here:
https://www.procurement.msstate.edu/procurement/bids/Bid_General_Terms_May_2019_V2.pdf
- c. Any contract resulting from this Invitation for Bid shall be in substantial compliance with Mississippi State University's Standard Contract Addendum:
<https://www.contracts.msstate.edu/resources/standard-forms>

Bid Number: MSU2026107

Opening Date: Wednesday September 30, 2026 at 2:00 p.m.

Description: BGAD Phase 1 Truss

Vendor Name: _____

Vendor Address: _____

Telephone Number: _____

Email Address: _____

Days the Offer is Firm: _____

Authorized Signature: _____

Name: _____

Title: _____

Item	Quantity	Description	Unit Price	Total Price
1	1	BGAD Phase 1 Truss		

BGAD Phase 1 Truss RFQ

Project: BGAD Innovation Hub – Phase 1

Location: Blue Grass Army Depot, Richmond, Kentucky

Purpose

Mississippi State University is requesting bids for the engineering, furnishing, delivery, and onsite installation of a ground-supported structural truss system supporting the BGAD Phase 1 motion-capture and precipitation-test systems.

The requested scope is a complete installed structural truss system suitable for subsequent mounting and integration of customer-furnished motion-capture cameras and precipitation-test equipment.

Design Basis

The attached design file (Final Truss Design Config) represents the required truss configuration and should govern overall geometry, member locations, support locations, and equipment interfaces:

- Final Truss Design Config.png

Known Equipment Interfaces / Loads

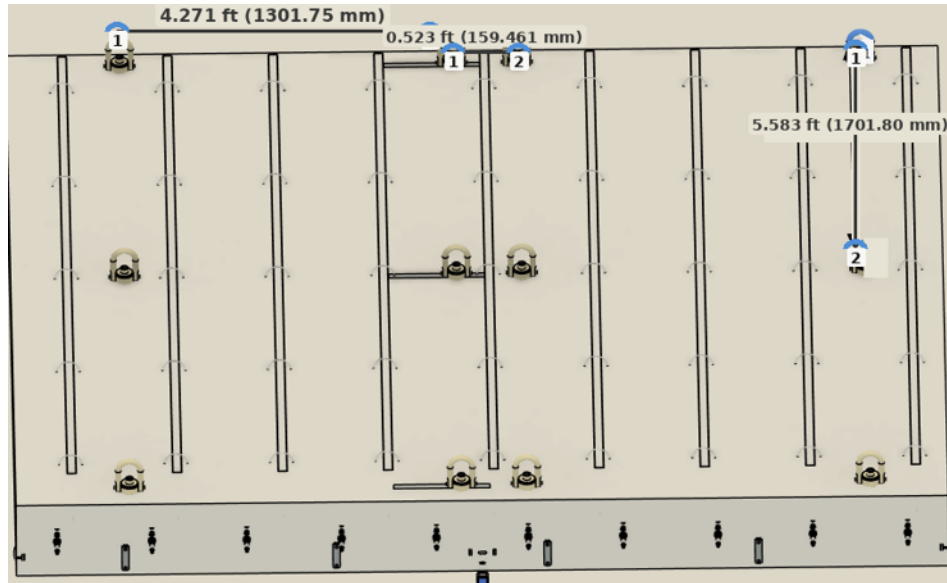
Motion-Capture System

- Existing system includes twenty (20) VersaX 120W motion-capture cameras.
- Twenty (20) Manfrotto 3-way Super Clamp mounts are available for camera mounting.
- Each camera weighs approximately 10 lb.
- Cameras will be distributed around the approximately 21,500 mm × 9,000 mm rectangular truss:
 - Seven (7) cameras along each long side.
 - Three (3) cameras along each short side.
- Camera cabling includes shielded CAT6A Ethernet/PoE cabling.
- The structure shall permit practical cable routing and access for future camera positioning, adjustment, maintenance, and servicing.
- The structure shall provide sufficiently stable mounting so that normal structural movement or vibration does not adversely affect motion-capture system performance.

Final allowable motion, deflection, and vibration criteria for the motion-capture system are not available at this stage. Vendor shall identify reasonable design assumptions used for quotation and identify any criteria requiring confirmation during post-award engineering.

Precipitation System

- The truss shall support an irrigation spray rig weighing approximately 750 lb wet.
- Approximate spray-rig footprint is 158 in × 149 in.
- This weight excludes external hanging hardware, supported piping/cabling, and other service loads.
- The spray rig is expected to be suspended from the crossbar portion of the truss using shackles, chains, clamps, or equivalent hardware.
- Available suspension-point geometry is provided for reference.



Final suspension-point loads and certain supported service loads are not available at this stage. Vendor shall identify reasonable assumptions used for quotation and identify any load information requiring confirmation during post-award engineering.

Structural Requirements

- Structure shall be designed for the truss dead load plus supported motion-capture, precipitation, piping, cabling, mounting, and operating service loads.
- Vendor shall identify the structural design basis, load assumptions, design assumptions, and any deviations from the supplied configuration.
- Assumptions requiring confirmation during post-award engineering shall be clearly identified.
- Vendor shall provide required structural calculations, engineering review, stamped drawings, and/or structural certification necessary for the supplied system.
- Vendor shall identify when engineering review and stamped documentation occur relative to fabrication.
- Anchor bases are required at support locations.
- Vendor shall identify the proposed anchoring method, floor attachment requirements, and resulting support reactions/loads.
- Existing slab/foundation thickness, strength, and reinforcement information are not currently available.
- Vendor shall identify reasonable slab/foundation assumptions used for quotation and any site information that must be verified before final engineering or installation.
- Structure shall provide reasonable access for:
 - Future camera mounting and adjustment.
 - Precipitation-array installation and maintenance.
 - Cabling and piping routing.
 - Future servicing.

Installation Requirements

Vendor shall provide onsite installation/erection of the complete structural truss system at Blue Grass Army Depot in Richmond, Kentucky.

Installation scope shall include, at a minimum:

- Structural assembly.
- Positioning.
- Leveling.
- Anchoring.
- Final structural installation.

Vendor shall identify:

- Any lifting, rigging, staging, access, or specialty equipment required for installation.
- Which installation equipment/services are included in the vendor scope.
- Any customer-furnished installation requirements.
- Anticipated installation crew requirements.
- Estimated onsite installation duration.
- Any prerequisites required before mobilization.
- Any site-access or delivery constraints that could affect cost or schedule.

Final site-access and installation logistics may require coordination with Blue Grass Army Depot following award.

Engineering Assumptions / Post-Award Verification

Certain technical and site details required for final engineering are not currently available, including:

- Final allowable motion/deflection/vibration criteria for the motion-capture system.
- Final precipitation-system suspension-point loads and certain service loads.
- Existing slab/foundation thickness, strength, and reinforcement.
- Final site-specific delivery, access, and installation constraints.

For quotation purposes, vendor shall:

- Identify reasonable engineering assumptions for these items.
- Clearly identify assumptions affecting price, schedule, or structural design.
- Identify any information requiring verification after award and before fabrication or installation.
- Identify any potential cost or schedule impacts if verified conditions materially differ from quoted assumptions.

The intent is to allow procurement and pricing to proceed while preserving appropriate post-award engineering verification before fabrication and installation.

Requested Bid

Please provide a single complete bid for the engineering, structural truss system, freight/delivery, and onsite installation at Blue Grass Army Depot, Richmond, Kentucky.

Pricing should identify the following as separate line items within the overall quotation:

- Truss structure, bases, connection hardware, and all materials required for a complete structural system.
- Structural calculations, engineering review, and stamped drawings/certification.
- Freight/shipping to Blue Grass Army Depot, Richmond, Kentucky.
- Onsite installation/erection, including:
 - Assembly.
 - Positioning.
 - Leveling.
 - Anchoring.
 - Final structural installation.
- Any required lifting, rigging, installation equipment, or specialty services included in the vendor scope.
- Estimated fabrication lead time from order/authorization to proceed.
- Estimated shipment/delivery timeline.
- Earliest achievable delivery.
- Estimated onsite installation duration.
- Earliest installer availability.
- Any expedited/rush fabrication or installation options.
- Warranty.
- Customer-furnished items.
- Site prerequisites.
- Assumptions.
- Exclusions.
- Proposed deviations from the supplied design basis.

Optional Additional Services

Vendors may separately identify any additional services they can provide beyond the required structural scope, such as:

- Cable-routing support.
- Equipment mounting assistance.
- General integration support.
- Final structural turnover support.

These services are optional and are not required for responsiveness to the base structural truss solicitation.

Motion-capture camera aiming, focusing, calibration, system validation, and operator training are not part of the required structural truss scope and may be procured separately.

Schedule Information Requested

Please provide:

- Estimated engineering duration.
- Estimated fabrication duration.
- Estimated ready-to-ship lead time from ARO.
- Estimated transit/delivery duration.
- Estimated onsite installation duration.
- Earliest available installation window.
- Major schedule dependencies.
- Activities that may be performed in parallel.
- Any expedited options available.

Vendor Response

Vendor should clearly identify:

- Proposed system configuration.
- Structural design basis.
- Engineering assumptions.
- Included materials.
- Included services.
- Installation scope.
- Customer responsibilities.
- Site prerequisites.
- Exclusions.
- Deviations.
- Schedule assumptions.
- Warranty.
- Total quoted price.