

SCOPE OF WORK

NEW EQUIPMENT SHELTER FORT BLISS NATIONAL CEMETERY, EL PASO, TX 79916

- A. The Contractor: Shall furnish all labor, material, equipment, tools, supervision and engineering design services to erect an all metal, pre-engineered, equipment shelter that meets the contract specifications and drawings as described herein and the pre-engineered building manufacturer's requirements.
- B. The Work: The Work shall include, but shall not be limited to the following (not necessarily in the order indicated):
1. The Contractor's services shall consist of a single company capable of providing both Architectural/ Engineering (A/E) design services and construction services related to the design, development, and installation of a 2,500 square foot, single sloped roof, all metal equipment shelter.
 2. Locate all underground utilities and their depth and location prior to start of work. All utilities shall be traced and marked prior to any removal or demolition of work. Note: There are no underground utility drawings available for this area and the construction area is anticipated to be free of underground obstructions.
 3. Foundation Work:
 - a. The Contractor shall employ A/E engineering services to design the foundation system to accept a 25' wide x 100' long, pre-engineered metal equipment shelter that meets all the pre-engineered building manufacturer's requirements and will accommodate the existing soil and site conditions. It is the contractor's responsibility to determine the exact foundation requirement that is in accordance with all Federal, State, and local building codes for a building of this type, occupancy, dimension and location.
 - b. A soils report for the soils in the area of the project is included in the contract documents and is to be utilized for the foundation design.
 - c. Concrete compression testing shall be conducted by a certified Laboratory and shall include a 7-day and a 28-day compression testing. Concrete shall cure for a minimum of 7 days, before any construction can begin on the building.
 4. Pre-engineered Equipment Shelter Work:
 - a. Equipment Shelter Features and Dimensioning:
 - (1) The equipment shelter shall have a single slope standing seam metal roof (1:12 slope), metal wall panels on three (3) sides, with the open face along the front side (east side) of the shelter.
 - (2) The building width and length shown on the contract drawings represents the intended overall size of the equipment shelter (25' W x 100' L). The actual overall width and length of the shelter and the actual quantity and locations of the vertical support columns may be adjusted by the Contractor with the COR's approval to accommodate the pre-manufactured building manufacturer's standardized design and typical building dimensions to reduce both the material costs and design costs incurred by the Contractor.
 - (3) The preferred clearance between columns in each storage bay is 20'-0" with a minimum acceptable width between columns of 12'-0". The actual quantity and locations of the vertical support columns may be adjusted by the Contractor with the COR's approval to accommodate the pre-manufactured building manufacturer's standardized design and typical building dimensions to reduce both the material costs and design costs incurred by the Contractor.
 - (4) The minimum clearance height at the front of the building (east side) is 14'-0". The clearance may be increased slightly to accommodate the pre-manufactured building manufacturer's

SCOPE OF WORK

NEW EQUIPMENT SHELTER FORT BLISS NATIONAL CEMETERY, EL PASO, TX 79916

standardized design and typical building dimensions.

- b. The Contractor shall select a pre-engineered metal building manufacturer, which meets or exceeds the required specification requirements and provides the best fit based on the contract drawings. The pre-engineered metal building shall comply with or exceed the requirements of specification Section 13 34 19, "Metal Building Systems".
 - c. The Contractor is responsible to furnish all required materials, labors, equipment, and tools to perform all operations necessary to fabricate, erect and construct a prefabricated steel building, all primary and secondary structural framing members, bolted connections, roof and wall coverings, flashings, fasteners, closures, sealers and other items as specified by the contract drawings, specifications and the pre-engineered equipment shelter manufacturer's requirements.
 - d. The Contractor is responsible to order the pre-fabricated metal building and the building material at the earliest possible time to allow for preparation, submittal, and acceptance of the shop drawings by the owner and preparation of the foundation plan by the Contractor's design engineer.
 - e. It is the responsibility of the Contractor to ensure all fabricated materials meet the requirements of the accepted and approved shop drawings and they are true and straight. All materials shall be protected from damage during delivery, storage and installation. Materials that are damaged during the delivery, improper storage or improper installation shall be replaced at no cost to the government.
 - f. Materials shall be installed in strict accordance with the manufacturer's instructions. Care shall be used in assembling to avoid bumping, twisting, dropping, or otherwise damaging the materials.
 - g. All materials shall be new, undamaged and meet or exceed the specifications as detailed in drawings in this scope of work and as required by all Federal, State and local building codes.
- 5. The Contractor shall conduct site survey and field-verify all dimensions and information themselves to produce the required design documents. Verify all measurements as indicated on the contract drawings, foundation design drawings (prepared by the design engineer), and the shelter erection drawings as designed and instructed by the manufacturer. The contractor shall resolve and correct any discrepancies immediately at no additional cost to the Government.
 - 6. Thoroughly clean up the work area at the end of each day's work, and at completion of the project. Leave premises clean and free of waste, scrap, used equipment, or other material intentionally or incidentally delivered to the site by Contractor or Contractor's personnel.
 - 7. Upon completion of work, the Contractor Superintendent and the COR shall inspect the completed work for compliance with both the contract and the pre-engineered building manufacturer's requirements. COR shall report unsatisfactory conditions in writing to the Contracting Officer. The work shall not be accepted until all unsatisfactory conditions have been corrected to the satisfaction of the Contracting Officer and the COR.
 - 8. **STANDARDS OF EMPLOYEE CONDUCT:**
 - a. The National Cemetery Administration honors veterans with a final resting place and lasting memorials that commemorate their service to our Nation. National Cemeteries are national shrines. The standards of work, appearance, and procedures performed by the contractor at this cemetery shall reflect

SCOPE OF WORK

NEW EQUIPMENT SHELTER FORT BLISS NATIONAL CEMETERY, EL PASO, TX 79916

this nations concern for those interred there. Due to the sensitive mission of the cemetery, contractor personnel must exercise and exhibit absolute decorum, composure, and stability at all times.

b. Contractor personnel shall be required to adhere to the following standards of dress and conduct, as briefly mentioned here, while performing work in the National Cemetery. These standards and regulations are enforceable under Title 38, U.S.C., Part I, Chapter 9, Section 5901.

c. Clothing shall be presentable and suitable to the work while maintaining proper appearance and decorum indicative for a National Shrine. Uniform shirts and hats are preferred. Clothing shall be clean and cleanliness and personal hygiene are imperative. T-shirts and/or tank tops as outer garments are prohibited. Protective/safety clothing and shoes shall meet or exceed OSHA and state requirements.

d. Behavior and language must be appropriate, reverent, and respectful at all times.

e. Eating and drinking (except water) is prohibited in the work areas and within sight of a committal shelter during a service.

f. Use of intoxicating beverages, any tobacco products, and illegal drugs on the Cemetery premises is strictly prohibited.

g. Contractor personnel shall not lean, sit, or stand on or against headstones or monuments. No tools, equipment or other items will be placed or leaned on headstones or monuments.

h. The Contractor shall be responsible for maintaining satisfactory standards of personnel conduct and work performance and shall administer disciplinary action as required. The Contractor is expected to remove any employees from the Cemetery for cause, to include, but not limited to, safety violations, other misconduct in performance of duty under these specifications and/or conduct contrary to the best interests of the Government. If the Contractor fails to act in this regard, or the reason for a removal is immediately required to protect the interests of the Government, the COTR may direct the removal of an employee from the premises. Contractor objections to any such action will be referred to the Contracting Officer (CO) for final resolution; however, the Contractor will first immediately comply with COTR direction pending any CO final resolution at a later time or date. The Contractor will not be due any type of compensation for their costs incurred as a result of an employee being removed for cause; unless the removal is directed by the COTR, and is later found invalid and/or unreasonable by the Contracting Officer.

C. Time of Completion:

1. The Design period is 60 days, the Construction period is 60 days, and there are two (2), 10 day periods between the scheduled design submittals for government review for a Total Design/Construction Period of **140 days** after notice to proceed.

D. Code Compliance:

1. All work shall be accomplished in accordance with the latest edition of all Federal, State, and Local building codes including all other applicable codes, standards, regulations and requirements. In the case where two or more standards are applicable, the contractor shall ensure compliance with the more stringent of the standards.
2. Design Loads: Shall be in accordance with the manufacturer's standard design practices and applicable building codes. Design loads may include dead load, roof live loads, wind loads, seismic loads, collateral loads, auxiliary equipment loads, and/or other applied or specified loads.

E. Contractor Quality Control: The Job Site Superintendent will:

1. Inspect the quality of work performed.
2. Certify all required submittals meet the contract requirements.
3. Certify the completed work for payment and other purposes.

SCOPE OF WORK

NEW EQUIPMENT SHELTER FORT BLISS NATIONAL CEMETERY, EL PASO, TX 79916

F. Availability/Constraints of Site:

1. See contract specification: “*Section 01010, General Requirements*”.

G. Submittals After Award:

1. Submit complete sets of instructions for field procedures for erection and adjustment prior to construction to the COR.
 - a. The manufacturer shall supply the contractor with pre-engineered shop drawings; the said drawings shall show the dimensions, complete erection drawings with the proper identification and assemblage of the building component, all relevant details, along with the calculations booklet sealed and signed by an engineer registered in the State of Texas. A copy of the said material shall be provided to the COR.
 - b. The manufacturer’s shop drawings shall include the, product data and samples on all building skin and roof systems and shall be approved by the COR prior to ordering. Product data and samples on all color and material samples of all finished surfaces including the interior and exterior materials shall be approved by the COR prior to ordering. A copy of the product data and samples, as required, shall be submitted to the COR.
2. Prior to any installation, the contractor will be required to submit a foundation design for this building this is compliant with all Federal, State, and local building codes. Structural foundation drawings and calculations shall include the foundation design based on the reactions submitted by the manufacturer, reinforcement design, anchor bolt, base plates, along with all pertinent details, and shall be sealed and signed by the design engineer registered in the State of Texas. These plans shall be submitted along with the sealed and signed manufacturer’s erection drawings and calculations. It is the responsibility of the engineer of the record to verify that the loading criteria defined on the order document is adequate and modify as needed.
3. Drawing/Design Submittals:
 - a. The Contractor shall submit for government review and approval, bound paper copies and electronic copies of 60% and 100% complete design document packages consisting of detailed design analyses, plans and specifications for the accomplishment of all construction work. Contractor shall submit a signed and sealed 100% design package incorporating all corrections from the 60% review. Mobilization and construction effort will only be allowed to begin upon the receipt of signed and sealed 100% drawing/design package. All electronic copies shall be provided to the government in the native file format and PDF format.
 - b. Drawings: Hard copy (full size) - Final design drawings shall be on 24" x 36" sheets and electronic PDF copies - of final design drawings on 24" x 36" sheets. A graphic scale shall be shown on each sheet of the drawings.
 - c. 60% design shall include the following information:
 - Civil Plan
 - Structural Plan
 - Foundation plan
 - Foundation Details
 - Architectural Plan
 - Reflected Ceiling Plan
 - Roof Framing Plan, Elevations, and Details

SCOPE OF WORK

NEW EQUIPMENT SHELTER FORT BLISS NATIONAL CEMETERY, EL PASO, TX 79916

- Roof Sections
 - Roof Framing Plan
 - Foundation Sections
 - Building Sections
 - Building Wall Sections
 - Exterior Details
- d. 100% design shall include the following information:
- Cover, details, legends, abbreviations, general information
 - Structural
 - General Notes
 - Foundation and floor slab plan
 - Roof framing plan
 - Roof Details
 - Steel Shop Drawings
 - Architectural
 - Plan and Elevations
 - Wall details and Sections
 - General Finishes and Special Item Schedules
 - Structural Calculations
 - Specifications
- e. The 100% Submittals shall be stamped and sealed by a State of Texas licensed engineer.
- f. Deliverables for the 60% Design Review: 3 paper copies of drawings (24"x36") + 1 electronic copy of all associated documentation including the drawings (PDF).
- g. Deliverables for the 100% Design Review: 3 paper copies of drawings (24"x36") + 1 electronic copy of all associated documentation (PDF: drawings, calculations, specifications, etc.)
4. The Contractor/A-E is responsible for correction and clarification as may be necessary because of errors or omissions in the design.
5. Government Review: A design review shall be conducted by the COR for general conformance with design intent only and not for verification of dimensions or approval of means and methods of construction. The Contractor and the Contractor's design team are fully responsible for all engineering design, coordination, and for means and methods of construction. The COR may furnish the contractor review comments on the data submitted. The government's review is intended to be limited to functional aspects, with limited technical review of a general cursory nature only. Any review by the government of technical items shall not be construed to relieve the contractor of responsibility for technically correct and complete documents in compliance with applicable codes, industry standards, and the intent of this SOW.
- I. Warranty: In accordance with the contract requirements as stated in the contract specifications.
- J. Plans/details:
1. Reference Drawings: "New Equipment Shelter", Sheets X-1, A-1, and A-2.
 2. Specifications:

SCOPE OF WORK

NEW EQUIPMENT SHELTER FORT BLISS NATIONAL CEMETERY, EL PASO, TX 79916

- a. Section 00 01 10, "Table of Contents"
 - b. Section 00 01 15, "List of Drawings"
 - c. Section 01 00 00, "General Requirements"
 - d. Section 01 33 23, "Shop Drawings Product Data"
 - e. Section 01 74 19, "Construction Waste Management"
 - f. Section 03 30 53, "Cast-in-Place Concrete"
 - g. Section 13 34 19, "Metal Building Systems"
3. Soil Boring Test Data: "Geotechnical Investigation Report", dated February 28, 2001.
- K. Pre-bid Site Inspection: Contact the Cemetery Director at (915) 564-0201 to make site visit arrangements. Fort Bliss National Cemetery, 5200 Fred Wilson Boulevard, El Paso, TX 79916.
- L. POC: The Contracting Officer's Representative (COR) for this project is: James Porter, Foreman, Fort Bliss National Cemetery.
- M. Project completion: The project site shall be protected and/or restored to a condition equal to that existing prior to the commencement of work.

END OF SCOPE OF WORK