

SCOPE OF WORK
MOPAS Training Area Project
10-0162

- 1 The scope of work includes all effort required to prepare construction documents for the award of a lump sum construction contract. The following services are required:
 - Plans
 - Specifications
 - Cost Estimate
 - Record Drawings
 - Shop Drawings
 - Project Information Form
- 2 The estimated construction cost is \$1115000
- 3 Pre-final Submittal:
 - Provide web site for review and comments on plans and specifications.
- 4 Final Submittal:
 - Computer Aided Drafting files in DWG format and PDF format on CD-ROM.
 - Cost Estimate on CD-ROM
 - Specification files in Specs-intact format on CD-ROM
 - 2 sets of drawings, 1/2 size
 - Print out of corrected Specs-intact error verification form
 - Completed project information form (Division I)
- 5 The completed design is to be original. All portions of the completed design shall be in compliance with the IBC, NEC, Life Safety Code, standard industry practice, and all applicable UFC Criteria, especially UFC 3-600-10N - Fire Protection Engineering for Facilities and UFC 4-010-01 - DoD Minimum Antiterrorism Standards for Buildings.
- 6 Provide all required permit applications and fees.
- 7 Complete Appendix D of UFC 1-300-08, which shall be provided.
- 8 Complete all work no later than 60 days after award.
- 9 This project shall provide both renovation design and demolition for the following: The Renovate includes buildings M120 and M111. Demolish includes M110, SM-87, SM-93, and SM-86. Provide pavement design and overlay existing paved area per attachment. Provide other design items mentioned below.

M120 RENOVATION

- 10 M120 shall receive a complete renovation. This is a historic building and shall meet all of the requirements outlined in the Historical Guidelines.
Exterior Renovation
- 11 Remove and install new vinyl siding with like kind. Properly repair any damaged areas on exterior wall that may exist.
- 12 Remove all existing roof vents. Repair roof as needed.
- 13 Remove and replace damaged windows and window sills as needed.
- 14 Remove and install all new exterior doors.
- 15 Paint all paintable exterior surfaces.
- Interior Renovation (See attached conceptual floor plan for facility requirements)
- 16 Remove all interior walls and finishes as required. Design interior walls per the conceptual sketch and meet all code requirements. All new interior walls shall extend up to the structural ceiling (permanent walls).
- 17 Paint interior of building complete.
- 18 Remove all carpet and properly abate any asbestos containing material. Install heavy duty carpet throughout the building.
- 19 Heads shall be completely renovated. Install new tile, new water efficient fixtures, paint, etc.
- 20 Replace the existing exhaust fans in heads with new.
- 21 Upgrade the electrical utility as required to support the facility's electrical requirement.
- 22 Install new energy efficient lighting throughout facility.
- 23 Provide telephone and data to support the facility requirements.
- 24 Remove all window mounted air conditioning units and all associated components throughout the building. Turn equipment over to the Government.

- 25 Remove all fuel oil heaters, pumps, and associated components throughout the building.
- 26 Install new HVAC system throughout building. Install energy efficient split system heat pumps and all associated equipment.
- 27 Provide fire suppression/fire alarm system per code requirements.
- 28 Install new ceiling grid with Acoustical Ceiling Tiles.
- 29 Comply with the long-term energy reduction goals of EO 13424. Specifically, upon completion of the renovation, facility shall realize achievement of energy consumption levels that are at least 30% below the levels established in the ASHRAE 90.1-2004 standard. Provide before and after modeling results to verify that 30% reduction goal is being met by this scope of work; or at least coming as close as possible to the goal if 30% reduction is not practical.
 - a. Design Development Calculations: Designer/contractor shall submit an energy compliance report. Report should summarize ASHRAE base building, and proposed building, and how the proposed building outperforms the base building. Be specific. State percentage of gain by each feature. Submit the models as back up information. The energy analysis shall be presented, in person, to Base staff at 35% design.
- 30 Comply with the water conservation goals of EO 13424. Specifically, the renovation design for this facility shall demonstrate a 20% reduction in water consumption from existing baseline water usage of the building; or, if not practical, coming as close as possible to the 20% reduction goal.

M111 RENOVATION

- 31 Repair all damaged roof trusses and roof sheathing.
- 32 Repair exterior finishes as required to prohibit water intrusion.
- 33 Patch all holes/damaged areas in corrugated roof with new galvanized metal as required to ensure water tight roof.
- 34 Design male and female heads in M111. Refer to conceptual floor plan sketch.
 - a. Building does not have water or sewer. Install water and sewer to support the heads.
- 35 Install eyewash station in building.
- 36 Install energy efficient interior lighting throughout building.

37 Install exterior energy efficient lighting as required.

Demolish Structures

38 M110

39 SM-87

40 SM-93

41 SM-86

42 Pave and overlay the areas as shown on the map (to be provided).

Training Areas

43 Design covered shelter over training aids (rail car, high liner, bleachers provided by others) area per sketch (to be provided).

a. Design concrete pad to support the rail car, high liner, bleachers and roof structure. Coordinate with base for more information on concrete pad.

b. Shelter shall be approximately 110' long x 50' wide x 18' tall with a mono-slope roof. The interior of the shelter shall be free of obstructions to allow for training exercises and equipment mentioned above.

c. Provide lighting on interior of shelter for night training.

44 Construct a concrete pad under the existing wood tower SM152.

45 Remove and replace the existing tower ladder on SM 152 with an aluminum stair structure.

46 Install winch at tower SM152 (customer to provide specifications for winch).

47 Install lights under tower SM152 to support night training. Provide light switch at base of tower to control lights.

48 Install 110 Volt 20 amp service at top and bottom of tower.