

SECTION 01 45 00 – QUALITY CONTROL

PART 1 - GENERAL

1.01 WORKMANSHIP

All materials and equipment shall be installed in a manner accepted by standard trade practice. Workmen skilled in the type of work required shall accomplish the installation.

1.02 TRAFFIC SAFETY

Special efforts shall be made not to interfere with traffic flow or create safety hazards to traffic.

1.03 ENVIRONMENTAL MANAGEMENT SYSTEM

Environmental Management System (EMS) is an ISO 14,001 tool used by the USAF to identify and mitigate threats to our environment. LRAFB's ultimate goal is to protect our environment (work environment and the natural environment) while accomplishing our mission. All *Contractors* working on LRAFB are expected to acknowledge their role in EMS while completing their mission. Threats associated with construction sites include, but are not limited to: hazardous materials, spills, equipment leaks, air-born dust, soil erosion, track-out, and lack of recycling. This will be communicated and documented initially for each project with monthly updates provided to the government *Contracting Officer's Representative*. *Contractor* shall sign a LRAFB supplied form monthly acknowledging that they have kept subcontractor's aware of EMS.

1.04 DEBRIS DISPOSAL

- A. Debris shall be removed from the Base promptly, and as feasible, all equipment and materials shall be removed or secured at the end of each day. The *Contractor* is responsible for the daily cleanup of all construction areas and construction debris that has escaped from the construction site.
- B. Work located on or near the airfield: It is imperative to maintain all work areas in a clean and orderly condition, subject to the satisfaction of the *Contracting Officer* and the *Contracting Officer's Representative*, to prevent Foreign Object Damage (FOD) to aircraft. Equipment, materials, etc. that can be transported by high winds shall be tied down and secured at all times when not in use during the day and secured at the end of each day. *Contractor* equipment and materials shall not be permitted to blow outside the construction site and the surrounding FOD fence. The *Contractor* shall promptly clean up all items (dirt, debris, etc.) that he, his employees or Subcontractors, drop onto areas traversed by aircraft. The use of sweeping equipment with metal bristled brooms is prohibited along the flight-line and on all airfield pavements.
- C. The *Contractor* shall exercise caution in not disturbing adjacent facilities, finishes, materials, grounds and other items not a part of this project. The *Contractor* shall clean daily all areas outside the project area of dirt, dust, and debris generated by this contract.
- D. The *Contractor* shall use designated haul routes for both delivery and removals. DESIGN-BUILD Firm to establish the Haul Route during Pre Design Meetings and site visits.
- E. The *Contractor* shall direct all concrete washings, or slurries resulting from saw cutting activities that contain Portland cement, to areas on the construction site where the sediments will be filtered out into the soil and not directed towards trees. Do not allow

washings to enter the storm drain system or any water course. The *Contractor* shall coordinate with the *Contracting Officer's Representative* prior to any concrete truck arriving on base to determine an appropriate wash out area. If concrete wash water cannot be directed to a suitable area on the construction site, it must be properly contained, collected, and disposed of as construction debris. Excess concrete not used in construction activities shall not be dumped, and must be removed and disposed of off base. Spills of concrete, concrete wash water, or chemicals used with exposed aggregate, must be contained and cleaned up immediately to prevent the spill from entering any part of the storm sewer system.

- F. All debris generated by the contract shall be properly disposed of by the *Contractor* off the base. Removal of debris and other material shall be handled, transported, stored, and disposed of by the *Contractor* and his Subcontractors in accordance with all applicable federal, state or local laws, ordinances, regulations, court orders or other types of rules or rulings having the effect of laws. These restrictions shall apply both on and off base.
- G. The *Contractor* shall submit with the regular progress reports a *Government* supplied *Contractor* Construction and Demolition Debris Report. This form lists the amount of materials disposed at a landfill, recycled or otherwise reused. This submittal is required before progress payments can be made and also applies to any debris by subcontractors.
- H. The *Contractor* shall take all precautions to prevent spillage of materials from *Contractor* vehicles on base pavements. The *Contractor* shall provide adequate labor and equipment to keep paved areas free of debris, and to contain loose materials at all times.

I. RECYCLING MATERIALS

1. The *Contractor* shall notify the *Contracting Officer's Representative* a minimum of two weeks prior to removing recyclable materials identified to be turned in to the *Government*. The *Contracting Officer's Representative* will arrange with the Recycling Center for *Government* furnished dumpsters to be placed near the construction site. Each type of material will be placed in separate dumpsters. The following recyclable materials are to be turned in to the *Government*.

- a. Electrical wire, conduit, junction boxes, etc.
- b. Metal pipe and plumbing fixtures
- c. Sheet metal, such as in ductwork and flashing
- d. Metal HVAC equipment (air handlers, chillers, pumps, condensers, etc.)
- e. Metal components from roofs, framing, siding, doors and windows and ceiling grids
- f. Window glass, except for wire reinforced safety glass.
- g. Cardboard
- h. All plastic that has the recycle emblem arrows (1, 2, 3, 4, etc.). This includes empty plastic pails, drums and shrink wrap.

2. All removed carpet shall be recycled and the *Contractor* shall provide written certification that the carpet was not placed in a landfill. *Contractor* certification shall indicate how the material was recycled and provide the address where it was delivered.

3. All removed ceiling tile shall be recycled and the *Contractor* shall provide written certification that the ceiling was not placed in a landfill. *Contractor* certification shall indicate how the material was recycled and provide the address where it was delivered.

1.05 CULTURAL RESOURCE MANAGEMENT

For the protection of cultural, historic and prehistoric resources, the *Contractor* shall submit a signed certification that the selected land borrow area is free of all materials of this type. This includes anything of an archeological nature as well as any Native American sites to include tribal burial grounds.

1.06 TEMPORARY EROSION CONTROL MEASURES

GENERAL: All construction that disturbs the ground cover, either natural or manmade, shall be subject to erosion control measures. The *Contractor* shall evaluate the scope of work to determine the level of erosion control measures to be implemented. As a minimum, the requirements of Section 01 57 23 STORM WATER POLLUTION PREVENTION MEASURES and LRAFB standard details shall be adhered to when developing and implementing temporary measures.

1.07 GROUNDS MAINTENANCE

The *Contractor* shall be responsible for up keep of building appearance, grass cutting and trimming, shrub trimming, weeding, etc within project limits. Grass cutting shall be completed every week during growing season.

1.08 WARRANTY REQUIREMENTS

The Contractor shall provide a standard Warranty of Construction for all work associated with this contract in accordance with FAR Clause 52.246-21 and any other additional warranties outlined within this Statement of Work/Specifications.

1.09 FINAL INSPECTION AND ACCEPTANCE OF WORK

As construction nears completion, the *Contracting Officer's Representative* and the *Contractor's* Quality Control representative and Superintendent shall thoroughly inspect the work and generate a deficiency (punch) list. When this list has been cleared, the *Contractor* shall request a preliminary inspection through the *Contracting Officer*, then the *Contracting Officer's Representative* will schedule the preliminary inspection using *Government* specialists of the systems installed under the Contract. When all deficiencies are corrected, the *Contractor* shall request a final inspection through the *Contracting Officer*, to be conducted by the *Contracting Officer* and *Contracting Officer's Representative*. For phased work, this process may be repeated for each phase.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION – QUALITY CONTROL