

**DIVISION 1  
GENERAL SPECIFICATIONS**

SECTION 01000

DESCRIPTION OF WORK

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

American National Standards Institute (ANSI):

ANSI C2 National Electric Safety Code

American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE):

Handbooks Handbooks Refrigeration Fundamentals  
HVAC System and Equipment  
HVAC Applications

Standards Ventilation for Acceptable Indoor Air  
Quality

Code of Federal Regulations (CFR)

29 CFR 1910 Occupational Safety and Health Standards  
- General Construction

29 CFR 1926 Occupational Safety and Health Standards  
- Construction Industry

Department of the Army, Corps of Engineers Manual (EM)

EM 385-1-1 Safety and Health Requirements Manual

Department of the Army, Corps of Engineers Regulation (ER):

ER 25-345-1 Military Publications System Operation  
and Maintenance Documentation

Department of the Army Regulation (AR)

AR 385-40 Accident Reporting Standards

Department of the Army Technical Manuals (TM)

TM 5-810-1 Mechanical Design, Heating, Ventilating,  
and Air Conditioning

TM 5-810-4 Compressed Air

TM 5-810-5 Plumbing

TM 5-811-1	Electric Power Supply and Distribution
TM 5-811-2	Electric Design, Interior Electrical System
TM 5-811-14	Coordinated Power systems Protection
TM 5-815-3	Heating, Ventilation, and Air Conditioning (HVAC)

Military Handbooks (MIL-HDBK):

MIL-HDBK-1008C	Fire Protection for Facilities Engineering, Design, and Construction
MIL-HDBK-1190	Facility Planning and Design Guide

National Institute of Technology and Standards

Handbook 135	Life Cycle Cost Analysis
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National Fire Protection Association, Inc. (NFPA):

NFPA 70	National Electric Code
NFPA 80	Doors and Windows
NFPA 101	Safety to Life from Fire in Building and Structures

Building Codes (52.9101 - 4000 TM)

American Institute of Steel Construction (AISC)

American Concrete Institute (ACI)

Uniform Building Code (UBC)

Uniform Plumbing Code (UPC)

Uniform Mechanical Code (UMC)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910, Publication V2206	OSHA General Industry Safety and Health Standards
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29 CFR 1926	OSHA Construction Industry Standards.
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One source of these regulations is OSHA Publication 2207, which includes a combination of both Parts 1910 and 1926 as they relate to construction safety and health. Contact the Superintendent of Documents, U.S. Government Printing

Office, Washington, D.C. 20402.

Tripler Army Medical Center (TAMC) Regulations

TAMC Reg 40-34	Management and Disposal of Regulated Medical Waste
TAMC Reg 40-35	Management and Disposal of Hazardous Waste
TAMC Reg 40-87	Hazardous Material/Waste Management Plan

Code of Federal Regulations (CFR)

National Emission Standards for Hazardous Air Pollutants (40 CFR, Part 61)

Federal Standard (Fed. Std. 313A, Material Safety Data sheets, Preparation and the Submission)

Federal Standard 795, Uniform Federal Accessibility Standards.

American Disability Act (ADA).

Installation Interior/Exterior Architectural Plans, USAG-HI.

1.2 GENERAL REQUIREMENTS

As described in other sections of this contract, the Government intends to award more than one contract. However, the Government reserves the right to award to only one contractor, if it is determined to be in its best interest. All references to "contract" in this section shall mean one of the multiple award contracts awarded to a successful Offeror.

These contract(s) will provide rapid response capability for maintenance, major repair and minor construction in a cost effective manner. The types of construction may include, but are not limited to, civil, architectural, mechanical, electrical, security, correction of safety concerns, asbestos and lead abatement, and structural.

- Civil construction such as, grading, water lines, sewer lines, paving/repaving roadways, sidewalks, parking lots, shore protection, stream bank stabilization, and dredging.
- Architectural construction such as, painting, roofing, renovation of interiors of existing buildings, new building construction.
- Mechanical construction such as, heating, ventilation, and air conditioning (HVAC) systems and components, refrigeration systems, material transport systems, automatic box conveyor systems, incinerators, fuel lines, elevators, escalators, dumb waiters, as well as plumbing systems including water, solid and hazardous waste control.
- Electrical construction such as, power and service supplies, distribution, and utilization systems (including lighting), power

generators and uninterrupted power supplies (UPS). Instrumentation work may include but is not limited to, plant management systems, using direct digital technology and fire alarm systems.

- Security construction such as, intrusion detection and surveillance systems.
- Correction of safety concerns such as, compliance with life safety codes, safety and hygiene, and fire suppression systems.
- Asbestos, lead-based paint, and petroleum-contaminated material abatement and disposal may be required.
- Structural effort may be required.
- Ancillary work necessary to support the repair project, such as demolition, or restoration of the work area to the condition prior to the repair action.

This objective will be achieved through the issuance of task orders under the terms of the contract.

### 1.3 DEFINITIONS

- Site Survey: An inspection of a facility to evaluate areas that need work.
- Site Survey Report: Documentation of the findings and recommendations resulting from the site survey and investigation of the proposed project.
- Feasibility Study: A study undertaken to determine the cost effectiveness of the proposed work.
- Proposal: Response to a Request for Proposal. A proposal may consist of conceptual plans for performance of the requested scope and/or costs to perform the requested scope.
- Work Plan: A detailed package consisting of the drawings, sketches, details, and/or specifications necessary to allow a third-party to perform the construction work.
- Construction: Execution of a set of plans, details, and specifications resulting in the repair or minor construction of a facility.
- Construction Task Order: A task order issued to perform work that includes construction and may include other types of work such as site survey, feasibility study, or work plan.
- Non-Construction Task Order: A task order issued to perform stand-alone work other than construction, i.e. site survey, feasibility study, work plan.

### 1.4 SUBMITTAL REQUIREMENTS

#### 1.4.1 Non-Construction Actions

All submittals related to non-construction actions are described in Section 00720. The requirement for these submittals will be stated in the task order.

#### 1.4.2 Construction-Related Actions

All submittals required for construction are described in Section 01330 and the various technical specifications that will be provided with the task order. The submittals listed on the Submittal Register found in Section 01330, Register: Main Register, shall be prepared to cover the requirements of the overall contract. The submittals listed on the Submittal Register, Register: Task Order, are required for each construction-related task order.

#### 1.4.3 Submittal Requirement

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with section 01330 SUBMITTAL PROCEDURES:

##### SD-01 Preconstruction Submittals

###### Organization Plan; G.

Provide a diagram depicting the proposed onsite management organization. The chart shall clearly identify lines of authority and areas of responsibility. Include a narrative description of how the onsite management team will operate, and the specific duties and responsibilities of the key individuals.

Identify the individuals proposed to fill the key onsite management positions listed in Section 01000. Provide resumes for each individual. Resumes must support the individual's qualifications to perform in the selected position.

Provide copies of letters of direction to each key personnel from an appropriate officer of the company.

If the information submitted in proposal Volume I, Factor I is current and complete, submit one copy of this information. However, if any of the proposal information is not current or requires revision, in addition to the copy of the proposal information, submit four copies of all additions and changes for Contracting Officer acceptance.

#### 1.4.4 Electronic Media Submittals

All electronic data submittals shall conform to the following requirements.

Required data shall be submitted on 3 1/2" double-sided high-density diskettes formatted to hold 1.44 MB of data, under the MS Windows 95 operating system, or higher. Alternatively, CD-ROMs may be used. They shall conform to industry standards used in the United States. All data shall be provided in English. A permanent exterior label shall be affixed to each diskette or CD-ROM submitted. The label shall indicate the type of

data, full contract and task order numbers, task order name, task order location, and data date.

All submitted electronic media (floppy disks, CD-ROMs, etc.) containing computer data shall be free of all known computer viruses at the time of delivery. A compatibility certification and the name(s) and release date(s) of the virus scanning software used to analyze the delivery media shall be furnished to the Government. The release or revision date of the virus scanning software shall be the most current version that has detected the latest known viruses at the time of delivery of the media. If analysis of the delivery media by the Government finds evidence of incompatibility with Government systems or virus infection, the media will be returned to the Contractor. The Contractor shall resubmit the media at no additional cost to the Government.

## PART 2 PRODUCTS (Not Applicable)

## PART 3 EXECUTION

### 3.1 GENERAL

a. The work ordered through this contract will be for medical facilities including hospitals, clinics, ancillary structures and related real property within the jurisdictional execution authority of the Corps of Engineers, U.S. Army Engineer District, Honolulu.

b. Each contract will be issued for a base period of 12 consecutive months from date of award, with provision for an additional 3 option periods, 12 consecutive months each. The combined total value of all task orders in all contracts issued will not exceed \$24 million. The award of an option period to any contractor is at the sole discretion of the Government.

c. Issuance of a task order for services and work plans will constitute the Notice to Proceed (NTP). The issuance of a construction task order will constitute NTP if sufficient bonding is available. If sufficient bonding is not available, NTP will be issued upon receipt of acceptable bonds. The task order performance period starts on the date the order is signed by the Contracting Officer/Ordering Officer or issuance of the NTP. Work on a task order shall commence immediately upon receipt of the signed task order or NTP.

d. Upon receipt of a task order NTP, the Contractor shall provide, all labor, materials, supplies, parts (to include system components), supervision, equipment, and related services, (except when specified as Government furnished), to perform all work in strict accordance with the terms, conditions, special contract requirements, specifications, drawings, attachments, and exhibits contained in the contract and task order or incorporated by reference. The scope of this contract covers a broad range of maintenance, major repair and minor construction work. The Contractor may be asked to meet milestones as required by the installation. Work will vary from site to site and may require extensive knowledge of the functional operation relating to the efficient use of the facility's equipment and support systems, and building structures. Some facilities may need to remain in full operation during the task order work. In these instances, the Contractor will be required to minimize interference with the daily

operations of the facilities.

e. In those task orders that the contractor is required to develop a "work plan" for proposed construction, the Contractor shall be familiar with, and all proposed work shall conform to, all applicable building and life safety codes (see paragraph REFERENCES). The Contractor shall be cognizant of any changes in the codes that impact the proposed work on the facility.

f. The Contractor's work and responsibility shall include all Contractor planning, programming, administration, and management necessary to provide all construction-related work (i.e. maintenance, repair, and/or construction) and other services as specified. The Contractor shall conduct all work in strict accordance with the contract and all applicable Federal, State, and local laws, regulations, codes, or directives. The Contractor shall provide related services such as preparing and submitting required reports, performing administrative work, and submitting necessary information as specified in this contract and within each task order. The Contractor shall ensure that all work performed meets the specified scope of work and any specifications or documents included with the individual task order.

g. The Contractor will be provided with a scope of work detailing the task(s) to be accomplished. The detail provided will vary from a general statement of what is required (with no drawings), to complete design documents (drawings and specifications), depending on the complexity and scope of the project. The Contractor will be required to use the information provided by the Government to prepare and submit a complete proposal reflecting the required task(s) to accomplish the provided scope of work, regardless of how much information is provided by the Government. Proposals may be requested requiring cost, time, and/or concept for the work. The submitted proposal shall be complete, to include all requested submittals and all cost factors, such as the labor, materials, equipment, and other costs, direct and indirect, necessary for performing the work required.

h. The Government will review all proposals and determine which contractor will be issued the work based on the proposal(s) received. The Government's objective is to issue task orders without negotiations. However, negotiations may be conducted if the Government determines it is necessary.

i. Upon issuance of a task order, the Contractor shall complete all work and services in accordance with the milestones established for each task order. Submittal dates, when applicable, will be included in the task order. Types and numbers of submittals, and dates and places for review meetings will also be stated in the task order.

### 3.2 PROJECT MANAGEMENT ORGANIZATION

#### 3.2.1 General

The Contractor is responsible for ensuring that the contract is adequately staffed to manage all of the work issued to it in full accordance and compliance with the contract requirements. The Contractor shall maintain a management staff with abilities and experience comparable to the staff listed in the pre-award management proposal.

#### 3.2.2 Organization Plan

The contractor shall submit an organization plan describing the onsite organization it intends to structure for managing this indefinite delivery, indefinite quantity contract. The plan shall include lines of authority, position responsibilities, and qualifications of the proposed staff. The project staff shall minimally consist of the key personnel listed below. Each of the individuals selected to fill these positions is subject to acceptance by the Contracting Officer.

### 3.2.3 Project Manager

The Project Manager shall be responsible for the contractor's overall management and coordination of this contract and shall be the central point of contact with the Government for performance of all work under this contract including warranty. The Project Manager shall oversee task order accomplishment, administer all instructions, and answer all questions from the Contracting Officer pertaining to the task orders during the life of the contract, including the warranty period. The Project Manager shall be responsible for the complete coordination of all work in this contract. The Project Manager will be responsible for ensuring that adequate internal controls and review procedures are followed in order to eliminate conflicts, errors and omissions, and for ensuring that all technical requirements are met. The Project Manager shall be assigned no other duties on this contract. Another individual may be designated to temporarily act for the Project Manager, however, forty-eight (48) hours advance notice in writing of such change shall be requested to the Contracting Officer, and no change shall be made without prior acceptance by the Contracting Officer.

The Project Manager shall have an accredited four-year college degree in engineering, related technical field, or business/management, and ten (10) years experience in managing and supervising Department of Defense construction projects of similar size and scope.

### 3.2.4 Project Engineer

A Project Engineer shall be assigned to assist the project manager with coordination and scheduling, and other management duties. The project engineer shall have no other duties but may be assigned to multiple task orders. This individual shall have an accredited four-year degree in engineering, or two (2) years experience in engineering or construction on Department of Defense projects similar in size and scope to this contract.

### 3.2.5 Project Superintendent

A Project Superintendent shall be assigned to each task order. This individual shall have a minimum of five (5) years experience as a superintendent on Department of Defense construction projects similar in size and scope to this contract. The project superintendent shall have overall responsibility for all operations on the task order, including coordination of multiple subcontractors, outages, and using agencies. The superintendent may have duties as task order QCR in addition to project supervision only if specifically allowed in the task order. Otherwise, the superintendent shall have no other duties, but may work on more than one task order at a time.

### 3.2.6 Quality Control

### 3.2.6.1 Contractor Quality Control System Manager (CQCSM)

The CQCSM shall have direct responsibility for the overall management of the contractor's entire Quality Control Program for this contract, as described in Section 01451. A staff of Quality Control Representatives shall support the CQCSM. All members of the CQC staff are subject to review and acceptance by the Contracting Officer.

### 3.2.6.2 Quality Control Representative (QCR)

A QCR shall be assigned to each task order and shall be physically present at the construction site at all times during construction. These individuals shall have responsibility for task order quality control and shall report directly to the CQCSM on all quality control matters. The QCR may have duties as task order superintendent in addition to quality control only if specifically allowed in the task order. Otherwise, the QCR shall have no other duties.

### 3.2.7 Safety

#### 3.2.7.1 Contract Safety Officer

The Contract Safety Officer shall have direct responsibility for the overall management of the contractor's Safety Program for the entire contract, as required by the US Army Corps of Engineers Safety and Health Requirements Manual, EM385-1-1, and other applicable safety standards. This individual shall have a minimum of five (5) years experience in safety on Department of Defense construction projects similar in size and scope to this contract. A staff of Site Safety Officers shall support the Contract Safety Officer. All members of the safety staff are subject to review and acceptance by the Contracting Officer.

#### 3.2.7.2 Site Safety Representative

A site safety representative shall be assigned to each task order and shall be onsite at all times during construction. These individuals shall have responsibility for site safety on the task order and shall report directly to the Contract Safety Officer on all safety matters. The Site Safety Representative shall have a minimum of three (3) years experience in safety on Department of Defense construction projects similar in size and scope to this contract. The site safety representative may be assigned other duties in the task order.

### 3.2.8 Additional Requirement

All of the above members of the Contractor's onsite management staff shall be familiar with the various codes and standards applicable to the facilities repair and construction tasks covered under this contract.

### 3.2.9 Organizational Changes

The Contractor shall maintain the onsite project management staff at full strength at all times. When it is necessary to make changes to the staff, the Contractor shall revise the Organization Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance prior to implementation.

### 3.3 CONTRACTOR RESPONSIBILITY

#### 3.3.1 General

Upon issuance of a task order, the Contractor shall provide all labor, tools, equipment, transportation, materials, and supervision (except as otherwise noted or provided) to safely and efficiently perform the work described in the task order.

#### 3.3.2 Task Order Execution

The Contractor shall be responsible for all work necessary to complete the task ordered, including site surveys, feasibility studies, calculations, work plans, construction work, equipment startups, and testing, repair, and/or training required for satisfactory completion of each individual task order.

#### 3.3.3 Codes and Standards

All task orders completed in this contract shall be performed in accordance with the latest edition of all applicable federal, state, and local laws and regulations, whichever is most stringent.

#### 3.3.4 Internal Controls

The Contractor shall maintain an internal control system for identification, preparation, reproduction, distribution, and maintenance of all documentation, schedules and information necessary for its internal management of the individual task orders and the total contract.

#### 3.3.5 Presentations and Meetings

The Contractor shall be responsible for attending all meetings required by contract and those required by each task order.

#### 3.3.6 Permits

The Contractor shall be responsible for identifying and obtaining all required permits from all Federal, State, local, or installation agencies prior to the start of work.

#### 3.3.7 Cooperation/Coordination with Installation Staff

The Contractor may be required to work in conjunction with various installation staff personnel. The Contractor's Project Manager shall provide a briefing to the installation staff prior to starting work. The briefing will provide the scope of work of the task order and a schedule for completing the work. While the Contractor is onsite and construction is underway, weekly coordination meetings will be conducted with the installation's points of contact. The purpose of these meetings will be to anticipate and schedule all operations where mutual effort by both groups is required.

### 3.4 CONTRACTOR SELECTION

#### 3.4.1 General

Work will be issued in the form of Task Orders using DD Form 1155, Order for Supplies or Services. The specific tasks to be performed will be identified in the task order documents. The Contracting Officer or Ordering Officer shall have the right to modify the requirements and performance periods of tasks in the task order. All task order submittals and end products are the property of the US Government. The Contracting Officer will be the final determining authority on the issuance of task orders.

### 3.4.2 Fixed Price Task Orders

#### 3.4.2.1 General

In accordance with the solicitation provisions, all Contractors will be afforded a fair opportunity to be considered for each task order issued under these IDIQ contracts. Unless one of the conditions identified in Special Contract Requirements, S-25, Award of Task Orders Under Multiple Award Contracts, subparagraph d applies, all task orders will be issued under these IDIQ contracts through the use of limited competition.

#### 3.4.2.2 Limited Competition Procedure

To facilitate the consistent and timely award of task orders, the following procedures will be used to the maximum extent practicable:

a) The Government will prepare and issue a request for proposal (RFP) for the proposed task order. RFP's may be written or oral. The RFP will describe the proposed Task Order work (may contain specifications and drawings relating to the Task Order work) and will identify a cut-off date/time before which the proposals must be submitted to the Contracting Officer. Upon receipt of an RFP, Contractors must submit a proposal. Each Contractor shall submit two complete copies of its proposal within a single sealed envelope. The Contractor shall identify on the outside of the envelope that the envelope contains the Contractor's proposal for the particular task order identified in the RFP.

b) All proposals will remain in the sealed envelopes until the date and time specified in the RFP. The Government's Evaluation Committee will open all envelopes on the specified date and time. The Evaluation Committee will evaluate the proposals submitted by all Contractors using the evaluation factors identified in paragraph 3.4.2.3 below.

c) The Government's objective is to issue task orders without negotiations. This determination will be made based on the recommendation of the Evaluation Committee. The Task Order will be issued to the selected Contractor and a letter sent to the non-selected Contractors informing them of the selection.

d) If issuance of a Task Order cannot be made without conducting discussions or negotiations, the Evaluation Committee will schedule discussions/negotiations with the Contractor(s) determined by the Evaluation Committee to be in the competitive range. At the conclusion of these sessions, the Contractor(s) will be instructed to provide revised proposals by a specified date and time. The revised proposals will be submitted and processed/evaluated as described in paragraphs a through c above. Based upon the recommendation of the Evaluation Committee, if the task order can then be issued without further discussions or negotiations, the task order

will be issued to the selected Contractor and a letter sent to the non-selected Contractors informing them of the selection.

e) Regardless of whether the task order is issued initially without any negotiations or issued after negotiations are conducted, if requested, the non-selected Contractors will be given an opportunity for a debriefing, at which time the reasons for non-selection will be reviewed.

#### 3.4.2.3 Evaluation Factors

In determining which contractor will be issued any given task order, the Government Evaluation Committee will consider one or more of the following factors. The importance of each factor will vary depending upon the status of the contracts and the specific services to be performed under the specific task order.

- a) The Contractor's proposed task order price;
- b) The Contractor's proposed performance schedule for the task order;
- c) Impact to ongoing contract work when the new task order is incorporated into the Contractor's schedule;
- d) The Contractor's demonstrated understanding of the proposed task order work;
- e) The Contractor's past performance under the contract for all completed task orders; the Contractor's past performance on similar or related task orders completed under the contract; and the Contractor's current performance on similar or related task orders issued under the contract; and
- f) The existence of ongoing or scheduled work by a Contractor in the location where the task order will be performed.

Evaluation factors a through d must be addressed in the Contractor's proposal. The contractor need not address factors e and f in its proposal. Evaluation factor e addresses the Contractor's performance under the contract (this information will be maintained within the Government's contract records). Evaluation factor f involves the location where the task order work will be performed (these conditions will be assessed by the Evaluation Committee).

#### 3.4.2.4 Proposal Submittal Requirements

The following information is provided to assist the Contractors in ensuring that proposals adequately address evaluation factors a through d.

- a) Proposals must reflect the total task order price and any separate prices for any optional or additive line items identified in the RFP. The proposed prices will be compared to each other as well as to the Government's Estimate for the task order.
- b) Proposals must contain a resource-loaded CPM (critical path method) schedule prepared in accordance with Specification Section 01320, "Project Schedule." The contractor's CPM schedule will be used to validate the contractor's proposed performance duration for the task order. The

submitted CPM schedule will be reviewed by the Evaluation Committee to evaluate the reasonableness of the Contractor's proposed task order duration and will serve as an additional indicator of the Contractor's understanding of the proposed task order work. The schedule shall include an assumed date of issue for the Task Order (normally seven (7) calendar days after the proposal submission cut-off date), include all significant features of the work, and result in a complete task order performance duration that can be used regardless of the exact date the task order is issued.

c) In addition to the CPM schedule for the specific task order, the Contractor shall also provide a separate resource-loaded CPM schedule that reflects all ongoing contract task order work that reflects how the Contractor proposes to incorporate the new task order with the ongoing task orders. The Government prefers that new task order work be accomplished with the ongoing contract work without delaying the completion of any of the ongoing, previously established task orders. However, if any ongoing task orders must be delayed as a result of incorporating the new task order into the schedule, the Contractor shall specifically identify the task orders that will be affected, the resulting delays, and the costs associated with those delays so that the affected task order schedules and the contract schedule can be modified appropriately should the Contractor be issued the work.

d) The schedules submitted by the Contractor will be used by the Evaluation Committee to evaluate the reasonableness of the Contractor's proposed task order schedule and duration, the impact of incorporating the new task order work into the ongoing contract schedule, and to indicate the Contractor's understanding of the proposed task order. The Contractor shall also provide sufficient cost detail within its price proposal to allow the Evaluation Committee to render a judgment concerning the Contractor's understanding of the proposed task order work.

#### 3.4.2.4.1 Profit Determination

The required method for calculating profit on all task orders and modifications on this contract will be the EFARS 15.9 "Alternate Structured Approach to Weighted Guidelines Method." A sample worksheet is included at the end of this section as Attachment 1. Include a copy of the completed worksheet with all task order and modification proposals.

#### 3.4.2.5 Notification of Non-Selection

Based upon the recommendation of the Evaluation Committee and subject to the availability of funding, a Task Order will be issued to one Contractor as the result of any given RFP. Within seventy-two (72) hours of issuing the task order, the Contracting Officer will send written notification to the non-selected Contractors of the selection. The non-selected Contractors will be afforded an opportunity for a debriefing if a written request is submitted to the Contracting Officer within seventy-two (72) hours after receiving the notice of non-selection. If the non-selected Contractors do not submit a written debriefing request within this timeframe, no debriefing will be conducted.

#### 3.4.2.6 Non-Selection Debriefing

If the non-selected Contractors request a debriefing within seventy-two (72)

hours after receiving the notice of non-selection, a debriefing will be scheduled. During the subsequent debriefing, the Evaluation Committee's reasons for non-selection for that specific task order will be reviewed with the non-selected Contractor(s). The purpose of the debriefing is not to change the Government's selection for that task order, but instead is intended to allow the contractor to identify and improve any identifiable weak areas in its proposal for subsequent task orders. Non-selection for award of any given task order shall not be subject to the Contract Disputes Act of 1978

#### 3.4.2.7 Task Order Issue

The selected contractor will be issued a fixed-price, lump sum task order. The task order documents will identify the performance requirements, including any milestones and the required final completion date.

#### 3.4.2.8 Notice to Proceed

The task order performance period starts on the date the order is signed by the Contracting Officer/Ordering Officer or receipt of NTP (if sufficient bonding is not available). Work on a task order shall commence immediately upon receipt of the signed task order or NTP.

#### 3.4.3 Quality of Work Plans

When tasked to produce a work plan, contractors shall be responsible for ensuring the level of detail and quality provided in their work plans are sufficient to allow construction of the project by another contractor. Receipt of a task order to prepare a work plan will not automatically guarantee a contractor the task order to execute the construction. Furthermore, upon completion of construction from a contractor-prepared work plan, the government will evaluate the quality of the work plan. This evaluation will be factored into the task order performance evaluation of the work plan preparer and may affect the preparer's ability to obtain future task orders.

#### 3.5 SUBMITTED SURVEYS, STUDIES, PROPOSALS, AND WORK PLANS

All submittals made in conjunction with this contract shall become the property of the Government.

#### 3.6 ENVIRONMENTAL PROTECTION

All work shall be performed in accordance with Section 01430, Environmental Protection.

##### 3.6.1 Smoking Policy

There will be no smoking within any Government facilities. However, if approved by the facility manager, a smoking area may be designated a minimum of 50 feet away from the facility and all material storage areas.

#### 3.7 ASBESTOS AND/OR LEAD-BASED PAINT ABATEMENT (REMOVAL OR ENCAPSULATION)

When work is in areas suspected of containing asbestos, OSHA Standard 29 CFR 1910.1001 shall apply. OSHA Standard 29 CFR 1926.1101 requires that asbestos be presumed to be present in all facilities constructed before

1980. Under this standard, where insulating or surfacing materials cannot be identified not to be or not to contain asbestos, they will be assumed to be or contain asbestos and appropriate safety procedures shall be taken. The contractor shall, when tasked to do so in the task order, undertake the sampling and testing required to make this determination as well as carry out the resultant abatement . The provisions of OSHA Standard 29 CFR 1926.22 shall apply to the handling of lead-based paint. The Contractor shall identify and abate lead-based paint when required to do so by the task order.

### 3.8 SITE SECURITY

The contractor is responsible for ensuring security at the worksite. The contractor shall maintain the site and all other contractor-controlled areas in such a manner as to minimize the risk of theft, vandalism, injury, or accident. The contractor shall comply with all Base security regulations.

### 3.9 PUBLIC AFFAIRS

The contractor shall not disclose any data generated or reviewed under this contract to any parties outside the contract. All requests for information concerning site conditions shall be referred to the Contracting Officer or Ordering Officer for comment.

END OF SECTION 01000

EFARS 15.9 "Alternate Structured Approach to Weighted Guidelines Method"

PROJECT TITLE:

CONTRACT No.:

TASK ORDER No.:

PROFIT FOR:

ESTIMATED BY:

FACTOR (a)	RATE (b)	WEIGHT (c)	VALUE (b x c)
1. Degree of Risk	20		
Very low		0.030	
Mod low		0.050	
Average		0.075	
Mod high		0.110	
High		0.120	
2. Relative Difficulty of Work	15		
Very simple		0.030	
Simple		0.040	
Average		0.075	
Complex		0.110	
Very complex		0.120	
3. Size of Job	15		
< \$100,000		0.120	
0.1 - 1.0 million		0.110	
1.0 - 2.0 million		0.100	
2.0 - 2.5 million		0.090	
2.5 - 3.5 million		0.080	
3.5 - 4.0 million		0.070	
4.0 - 4.5 million		0.060	
4.5 - 5.0 million		0.050	
5.0 - 10.0		0.040	
> 10 million		0.030	
4. Periods of Performance	15		
Short (< 30 days)		0.030	
Mod short		0.050	
Average		0.080	
Mod long		0.100	
Long (> 2 years)		0.120	
5. Contractor's Investment	5		
None		0.030	
Little		0.050	
Average		0.070	
Mod high		0.090	
High		0.120	
6. Assistance by Government	5		
None		0.120	
Small		0.090	
Moderate		0.070	
Mod large		0.050	
Large		0.030	
7. Subcontracting	25		
0%		0.120	
0% - 20%		0.100	
20% - 40%		0.080	
40% - 60%		0.050	
60% - 80%		0.030	
		TOTAL PROFIT	

## SECTION 01200 - PROJECT MEETINGS

### PART I - GENERAL

#### 1.1 PRECONSTRUCTION CONFERENCE

After the award of the contract and prior to the start of any task orders, an authorized representative of the Contracting Officer will schedule and conduct a preconstruction conference. The Contractor's Project Manager, CQC System Manager (CQCSM), and Project Safety Officer will attend this meeting. The Contractor is encouraged to have an officer of his company at this conference. This conference will be held at the location specified by the Contracting Officer's authorized representative.

The contractor shall bring the following submittals to this meeting:

- Organization Plan
- Accident Prevention Plan
- Quality Control Plan
- Submittal Register, ENG Form 4288

A completed submittal transmittal form, ENG Form 4025, shall accompany each submittal.

#### 1.2 PREWORK CONFERENCE

A prework conference will be held for all construction-type task orders. This meeting will be scheduled after the Notice to Proceed for the task order, but prior to the start of construction. This meeting will be held at the location and time specified by the Contracting Officer's Representative. The contractor's CQC System Manager, Project Safety Officer, and the individuals assigned to manage the task order, the Quality Control Representative, Site Safety Officer and Superintendent are required to attend this meeting.

The contractor shall bring the following submittals to this meeting:

- Site-Specific Safety and Health Plan
- Task Order-Specific Quality Control Plan
- Environmental Protection Plan
- Construction Schedule
- Submittal Register, ENG Form 4288

A completed submittal transmittal form, ENG Form 4025, shall accompany each submittal.

#### 1.3 COORDINATION MEETINGS

##### 1.3.1 Quality Control

Prior to the start of task order construction, a quality control coordination meeting must be held. In this meeting, the Government and contractor will discuss the contractor's task-specific quality control plan and come to a mutual understanding of the system details. This meeting may be held concurrently with the prework conference.

##### 1.3.2 Safety

Prior to the start of task order construction, a safety coordination meeting must be held. In this meeting, the Government and contractor will discuss the contractor's site-specific safety and health plan and come to a mutual understanding of the system details. This meeting may be held concurrently with the prework conference.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

-- End of Section --

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## DIVISION 01 - GENERAL REQUIREMENTS

## SECTION 01312

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## SECTION 01312

## QUALITY CONTROL SYSTEM (QCS)

## 1.1 GENERAL

The Government will use the Resident Management System for Windows (RMS) to assist in its monitoring and administration of this contract. The Contractor shall use the Government-furnished Construction Contractor Module of RMS, referred to as QCS, to record, maintain, and submit various information throughout the contract period. This joint Government-Contractor use of RMS and QCS will facilitate electronic exchange of information and overall management of the contract. QCS provides the means for the Contractor to input, track, and electronically share information with the Government in the following areas:

- Administration
- Finances
- Quality Control
- Submittal Monitoring
- Scheduling
- Import/Export of Data

## 1.1.1 Applicability

QCS shall be used on the contract as well as all construction task orders.

## 1.1.2 Correspondence and Electronic Communications

For ease and speed of communications, both Government and Contractor will, to the maximum extent feasible, exchange correspondence and other documents in electronic format. Correspondence, pay requests and other documents comprising the official contract record shall also be provided in paper format, with signatures and dates where necessary. Paper documents will govern, in the event of discrepancy with the electronic version.

## 1.1.3 Other Factors

Particular attention is directed to Contract Clause, "Schedules for Construction Contracts", Contract Clause, "Payments", Section 01320, PROJECT SCHEDULE, Section 01330, SUBMITTAL PROCEDURES, and Section 01451, CONTRACTOR QUALITY CONTROL, which have a direct relationship to the reporting to be accomplished through QCS. Also, there is no separate payment for establishing and maintaining the QCS database; all costs associated therewith shall be included in the task order pricing for the work.

## 1.2 QCS SOFTWARE

QCS is a Windows-based program that can be run on a stand-alone personal computer or on a network. The Government will make available the QCS software to the Contractor after award of the construction contract. Prior to the Pre-Construction Conference, the Contractor shall be responsible to download, install and use the latest version of the QCS software from the

Government's RMS Internet Website, (<http://winrms.usace.army.mil/contractor's.htm>). Upon specific justification and request by the Contractor, the Government can provide QCS on 3-1/2 inch high-density diskettes or CD-ROM. Any program updates of QCS will be made available to the Contractor via the Government RMS Website as they become available.

### 1.3 SYSTEM REQUIREMENTS

The following listed hardware and software is the minimum system configuration that the Contractor shall have to run QCS:

#### **Hardware**

IBM-compatible PC with 200 MHz Pentium or higher processor  
32+ MB RAM

4 GB hard drive disk space for sole use by the QCS system

3 1/2 inch high-density floppy drive

Compact disk (CD) Reader

Color monitor

Laser printer compatible with HP LaserJet III or better, with minimum 4 MB installed memory.

Connection to the Internet, minimum 28 BPS

#### **Software**

MS Windows 95 or newer version operating system (MS Windows NT 4.0 or newer is recommended)

Word Processing software compatible with MS Word 97 or newer

Internet browser

The Contractor's computer system shall be protected by virus protection software that is regularly upgraded with all issued manufacturer's updates throughout the life of the contract.

Electronic mail (E-mail) compatible with MS Outlook

### 1.4 RELATED INFORMATION

#### 1.4.1 QCS User Guide

After contract award, the Contractor shall download instructions for the installation and use of QCS from the Government RMS Internet Website. In case of justifiable difficulties, the Government will provide the Contractor with a CD-ROM containing these instructions.

#### 1.4.2 Contractor Quality Control (CQC) Training

The use of QCS will be discussed with the Contractor's QC System Manager in the course entitled, "Construction Quality Management For Contractors" (Section 01451).

#### 1.5 CONTRACT DATABASE

Prior to the pre-construction conference, the Government will provide the Contractor with basic contract award data to use for QCS. The Government will provide data updates to the Contractor as needed, generally by files attached to E-mail. These updates will generally consist of submittal reviews, correspondence status, QA comments, and other administrative and QA data.

#### 1.6 DATABASE MAINTENANCE

The Contractor shall establish, maintain, and update data for the contract in the QCS database throughout the duration of the contract. The Contractor shall establish and maintain the QCS database at the Contractor's site office. Data updates to the Government shall be submitted by E-mail with file attachments, e.g., daily reports, schedule updates, payment requests. If permitted by the Contracting Officer, a data diskette or CD-ROM may be used instead of E-mail (see Paragraph DATA SUBMISSION VIA COMPUTER DISKETTE OR CD-ROM). The QCS database typically shall include current data on the following items:

##### 1.6.1 Administration

###### 1.6.1.1 Contractor Information

The database shall contain the Contractor's name, address, telephone numbers, management staff, and other required items. Within 14 calendar days of receipt of QCS software from the Government, the Contractor shall deliver Contractor administrative data in electronic format via E-mail.

###### 1.6.1.2 Subcontractor Information

The database shall contain the name, trade, address, phone numbers, and other required information for all subcontractors. A subcontractor must be listed separately for each trade to be performed. Each subcontractor/trade shall be assigned a unique Responsibility Code, provided in QCS. Within 14 calendar days of receipt of QCS software from the Government, the Contractor shall deliver subcontractor administrative data in electronic format via E-mail.

###### 1.6.1.3 Correspondence

All Contractor correspondence to the Government shall be identified with a serial number. Correspondence initiated by the Contractor's site office shall be prefixed with "S". Letters initiated by the Contractor's home (main) office shall be prefixed with "H". Letters shall be numbered starting from 0001. (e.g., H-0001 or S-0001). The Government's letters to

the Contractor will be prefixed with "C".

#### 1.6.1.5 Equipment

The Contractor's QCS database shall contain a current list of equipment planned for use or being used on the jobsite, including the most recent and planned equipment inspection dates.

#### 1.6.1.7 Management Reporting

QCS includes a number of reports that Contractor management can use to track the status of the project. The value of these reports is reflective of the quality of the data input, and is maintained in the various sections of QCS. Among these reports are: Progress Payment Request worksheet, QA/QC comments, Submittal Register Status, Three-Phase Inspection checklists.

#### 1.6.2 Finances

##### 1.6.2.1 Pay Activity Data

The QCS database shall include a list of pay activities that the Contractor shall develop in conjunction with the construction schedule. The sum of all pay activities shall be equal to the total contract/task order amount, including modifications. Pay activities shall be grouped by Contract Line Item Number (CLIN), and the sum of the activities shall equal the amount of each CLIN. The total of all CLINs equals the Contract Amount.

##### 1.6.2.2 Payment Requests

All progress payment requests shall be prepared using QCS. The Contractor shall complete the payment request worksheet and include it with the payment request. The work completed under the task order, measured as percent or as specific quantities, shall be updated at least monthly. After the update, the Contractor shall generate a payment request report using QCS. The Contractor shall submit the payment requests with supporting data by E-mail with file attachment(s). If permitted by the Contracting Officer, a data diskette may be used instead of E-mail. A signed paper copy of the approved payment request is also required, which shall govern in the event of discrepancy with the electronic version.

#### 1.6.3 Quality Control (QC)

QCS provides a means to track implementation of the 3-phase QC Control System, prepare daily reports, identify and track deficiencies, document progress of work, and support other contractor QC requirements. The Contractor shall maintain this data on a daily basis. Entered data will automatically output to the QCS-generated daily report. The Contractor shall provide the Government a task-specific quality control plan within the time required in Section 01451, CONTRACTOR QUALITY CONTROL. Within seven calendar days of Government acceptance, the Contractor shall submit a data diskette or CD-ROM reflecting the information contained in the accepted task-specific quality control Plan: schedule, pay activities, features of work, submittal register, QC requirements, and equipment list.

#### 1.6.3.1 Daily Contractor Quality Control (CQC) Reports.

QCS includes the means to produce the Daily CQC Report. The Contractor may use other formats to record basic QC data. However, the Daily CQC Report generated by QCS shall be the Contractor's official report. Data from any supplemental reports by the Contractor shall be summarized and consolidated onto the QCS-generated Daily CQC Report. Daily CQC Reports shall be submitted as required by Section 01451, CONTRACTOR QUALITY CONTROL. Reports shall be submitted electronically to the Government using E-mail or diskette within 24 hours after the date covered by the report. Use of either mode of submittal shall be coordinated with the Government representative. The Contractor shall also provide the Government a signed, printed copy of the daily CQC report.

#### 1.6.3.2 Deficiency Tracking.

The Contractor shall use QCS to track deficiencies. Deficiencies identified by the Contractor will be numerically tracked using QC punch list items. The Contractor shall maintain a current log of its QC punch list items in the QCS database. The Government will log the deficiencies it has identified using its QA punch list items. The Government's QA punch list items will be included in its export file to the Contractor. The Contractor shall regularly update the correction status of both QC and QA punch list items.

#### 1.6.3.3 Three-Phase Control Meetings

The Contractor shall maintain scheduled and actual dates and times of preparatory and initial control meetings in QCS.

#### 1.6.3.4 Accident/Safety Tracking.

The Government will issue safety comments, directions, or guidance whenever safety deficiencies are observed. The Government's safety comments will be included in its export file to the Contractor. The Contractor shall regularly update the correction status of the safety comments. In addition, the Contractor shall utilize QCS to advise the Government of any accidents occurring on the jobsite. This brief supplemental entry is not to be considered as a substitute for completion of mandatory reports, e.g., ENG Form 3394 and OSHA Form 200.

#### 1.6.3.5 Features of Work

The Contractor shall include a complete list of the features of work in the QCS database. A feature of work may be associated with multiple pay activities. However, each pay activity (see subparagraph "Pay Activity Data" of paragraph "Finances") will only be linked to a single feature of work.

#### 1.6.3.6 QC Requirements

The Contractor shall develop and maintain a complete list of QC testing, transferred and installed property, and user training requirements in QCS. The Contractor shall update all data on these QC requirements as work

progresses, and shall promptly provide this information to the Government via QCS.

#### 1.6.4 Submittal Management

The Government will provide the initial submittal register, ENG Form 4288, SUBMITTAL REGISTER, in electronic format via QCS. Thereafter, the Contractor shall maintain a complete list of all submittals, including completion of all data columns. Dates on which submittals are received and returned by the Government will be included in its export file to the Contractor. The Contractor shall use QCS to track and transmit all submittals. ENG Form 4025, submittal transmittal form, and the submittal register update, ENG Form 4288, shall be produced using QCS. RMS will be used to update, store and exchange submittal registers and transmittals, but will not be used for storage of actual submittals.

#### 1.6.5 Schedule

The Contractor shall develop a construction schedule consisting of pay activities, in accordance with Contract Clause "Schedules for Construction Contracts", or Section 01320, PROJECT AND CONSTRUCTION SCHEDULES, as applicable. This schedule shall be input and maintained in the QCS database either manually or by using the Standard Data Exchange Format (SDEF) (see Section 01320 PROJECT SCHEDULE). The updated schedule data shall be included with each pay request submitted by the Contractor.

#### 1.6.6 Import/Export of Data

QCS includes the ability to export Contractor data to the Government and to import submittal register and other Government-provided data, and schedule data using SDEF.

#### 1.7 IMPLEMENTATION

Contractor use of QCS as described in the preceding paragraphs is mandatory. The Contractor shall ensure that sufficient resources are available to maintain its QCS database, and to provide the Government with regular database updates. QCS shall be an integral part of the Contractor's management of quality control.

#### 1.8 DATA SUBMISSION VIA COMPUTER DISKETTE OR CD-ROM

The Government-preferred method for Contractor's submission of updates, payment requests, correspondence and other data is by E-mail with file attachment(s). For locations where this is not feasible, the Contracting Officer may permit use of computer diskettes or CD-ROM for data transfer. Data on the disks or CDs shall be exported using the QCS built-in export function. If used, diskettes and CD-ROMs will be submitted in accordance with the following:

##### 1.8.1 File Medium

The Contractor shall submit required data on 3-1/2 inch double-sided high-density diskettes formatted to hold 1.44 MB of data, capable of running

under Microsoft Windows 95 or newer. Alternatively, CD-ROMs may be used. They shall conform to industry standards used in the United States. All data shall be provided in English.

#### 1.8.2 Disk or CD-ROM Labels

The Contractor shall affix a permanent exterior label to each diskette and CD-ROM submitted. The label shall indicate in English, the QCS file name, full contract and task order numbers, task order name, project location, data date, name and telephone number of person responsible for the data.

#### 1.8.3 File Names

The Government will provide the file names to be used by the Contractor with the QCS software.

#### 1.9 MONTHLY COORDINATION MEETING

The Contractor shall update the QCS database each workday. At least monthly, the Contractor shall generate and submit an export file to the Government with schedule update and progress payment request. As required in Contract Clause "Payments", at least one week prior to submittal, the Contractor shall meet with the Government representative to review the planned progress payment data submission for errors and omissions. The Contractor shall make all required corrections prior to Government acceptance of the export file and progress payment request. Payment requests accompanied by incomplete or incorrect data submittals will be returned. The Government will not process progress payments until an acceptable QCS export file is received.

#### 1.10 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the requirements of this specification. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification.

-- End of Section --

## SECTION 01320

### PROJECT AND CONSTRUCTION SCHEDULES

#### PART 1 GENERAL

##### 1.1 Definitions

The Project Schedule shall be contract comprehensive, and shall track the progress of all open task orders in a single network analysis system. The Project Schedule shall be prepared and maintained in accordance with the provisions of this section.

A Construction Schedule shall be prepared and maintained for each task order. Construction schedules may be in the form of a progress chart using ENG Form 2454, *Construction Progress Chart*, only under the conditions noted below. Construction Progress Charts shall be in accordance with the provisions of FAR 52.246-15, *Schedules for Construction Contracts*.

##### 1.2 Applicability

The requirements of this section apply to the contract Project Schedule and the construction schedules of all task orders valued at \$100,000 or more, and with a duration greater than 120 calendar days, unless otherwise noted in the task order. Task orders that do not meet these minimums may use Progress Charts.

All references to Project Schedule in this section shall mean the same as task order construction schedule for those task orders that exceed the minimum criteria stated above.

##### 1.3 Level of Detail

The contract Project Schedule shall minimally include an activity for each feature of work in each task order. The activities in each task order shall be banded.

##### 1.4 Task Order Dependencies

Where a task order activity(ies) is/are impacted by an activity(ies) from another task order, this interrelationship shall be indicated in the contract Project Schedule.

##### 1.5 Electronic Schedule Requirement

The Project Schedule to be prepared by the Contractor shall be electronically prepared using software capable of generating a data file in the Standard Data Exchange Format (SDEF). The Project Schedule shall consist of a network analysis system as described below. In preparing this system the scheduling of Construction is the sole responsibility of the contractor. The requirement for the system is included to assure adequate planning in the execution of the work and to assist the Contracting Officer in appraising the reasonableness of the proposed schedule and evaluating progress of the work for the purposes of payment.

##### 1.6 SUBMITTALS

Government acceptance is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

#### SD-01 Preconstruction Submittals

Preliminary Project Schedule ; G.  
Initial Project Schedule ; G.  
Periodic Schedule Updates ; G.

Four copies of the schedules showing codes, values, categories, numbers, items, etc., as required.

Periodic schedule updates of both project and construction schedules shall be submitted monthly, including schedules prepared on ENG Form 2454.

#### SD-06 Test Reports

Narrative Report.  
Schedule Reports.

Four copies of the reports showing numbers, descriptions, dates, float, starts, finishes, durations, sequences, etc., as required, shall be included with each schedule or schedule update submittal.

#### SD-07 Certificates

Qualifications ; G.

Documentation showing qualifications of personnel preparing schedule reports.

### 1.7 QUALIFICATIONS

The Contractor shall designate an authorized representative who shall be responsible for the preparation of all required project schedule reports. This person shall have previously created and reviewed computerized schedules using the software selected by the Contractor. Qualifications of this individual shall be submitted to the Contracting Officer for review with the Preliminary Project Schedule submission

## PART 2 PRODUCTS (Not Applicable)

## PART 3 EXECUTION

### 3.1 GENERAL

Pursuant to the Contract Clause, SCHEDULE FOR CONSTRUCTION CONTRACTS, a Project Schedule as described below shall be prepared. The scheduling of construction shall be the responsibility of the Contractor. Contractor management personnel shall actively participate in its development. Subcontractors and suppliers working on the project shall also contribute in developing and maintaining an accurate Project Schedule. The accepted Project Schedule shall be used to measure the progress of the work, to aid

in evaluating time extensions, and to provide the basis of all progress payments.

### 3.2 BASIS FOR PAYMENT

The schedule shall be the basis for measuring Contractor progress. Lack of an accepted schedule or scheduling personnel shall result in an inability of the Contracting Officer to evaluate Contractor progress for the purposes of payment. Failure of the Contractor to provide all information, as specified below, shall result in the disapproval of the entire Project Schedule submission and the inability of the Contracting Officer to evaluate Contractor progress for payment purposes. In the case where Project Schedule revisions have been directed by the Contracting Officer and those revisions have not been included in the Project Schedule, then the Contracting Officer may hold retainage up to the maximum allowed by contract, each payment period, until revisions to the Project Schedule have been made.

### 3.3 ELECTRONIC PROJECT SCHEDULE

The computer software system utilized by the Contractor to produce the Project Schedule shall be capable of providing all requirements of this specification. Failure of the Contractor to meet the requirements of this specification shall result in the disapproval of the schedule. Manually generated schedules will not be accepted.

The system noted below is capable of generating a file in the Standard Data Exchange Format (SDEF). All electronic data submittals shall be in SDEF. SDEF information is available from the Contracting Officer.

Vendor/System with SDEF support:

Primavera Systems                      PRIMAVERA PROJECT PLANNER (P3)

#### 3.3.1 Use of the Critical Path Method

The Critical Path Method (CPM) of network calculation shall be used to generate the Project Schedule. The Contractor shall provide the Project Schedule in either the Precedence Diagram Method (PDM) or the Arrow Diagram Method (ADM).

#### 3.3.2 Level of Detail Required

With the exception of the preliminary schedule submission, the Project Schedule shall include an appropriate level of detail. Failure to develop or update the Project Schedule or provide data to the Contracting Officer at the appropriate level of detail, as specified by the Contracting Officer, shall result in the disapproval of the schedule. The Contracting Officer will use, but is not limited to, the following conditions to determine the appropriate level of detail to be used in the Project Schedule.

##### 3.3.2.1 Activity Durations

Contractor submissions shall follow the direction of the Contracting Officer regarding reasonable activity durations. Reasonable durations are those that allow the progress of activities to be accurately determined between

payment periods (usually less than 2 percent of all non-procurement activities' Original Durations shall be greater than 20 days).

#### 3.3.2.2 Procurement Activities

Tasks related to the procurement of long lead materials or equipment shall be included as separate activities in the project schedule. Long lead materials and equipment are those materials that have a procurement cycle of over 90 days. Examples of procurement process activities include, but are not limited to: submittals, approvals, procurement, fabrication, delivery, installation, start-up, and testing.

#### 3.3.2.3 Government Activities

Government and other agency activities that could impact progress shall be shown. These activities include, but are not limited to: approvals, inspections, utility tie-in, Government Furnished Equipment (GFE) and notice to proceed for phasing requirements.

#### 3.3.2.4 Responsibility

All activities shall be identified in the project schedule by the party responsible to perform the work. Responsibility includes, but is not limited to, the subcontracting firm, contractor work force, or government agency performing a given task. The responsible party for each activity shall be identified by the Responsibility Code.

#### 3.3.2.5. Work Areas

All activities shall be identified in the project schedule by the work area in which the activity occurs. Activities shall not be allowed to cover more than one work area. The work area of each activity shall be identified by the Work Area Code.

#### 3.3.2.6 Modification or Claim Number

Any activity that is added or changed by contract modification or used to justify claimed time shall be identified by a mod or claim code that changed the activity. Activities shall not belong to more than one modification or claim item. The modification or claim number of each activity shall be identified by the Mod or Claim Number.

#### 3.3.2.7 Bid Item

All activities shall be identified in the project schedule by the Contract/Task Order Line Item to which the activity belongs. An activity shall not contain work in more than one line item. The line item for each appropriate activity shall be identified by the Bid Item Code.

#### 3.3.2.5 Feature of Work

All activities shall be identified in the project schedule according to the feature of work to which the activity belongs. Feature of work refers, but is not limited to a work breakdown structure for the project. The feature of work for each activity shall be identified by the Feature of Work Code.

#### 3.3.3 Scheduled Project Completion

The schedule interval shall extend from notice-to-proceed to the contract completion date.

#### 3.3.3.1 Project Start Date

The schedule shall start no earlier than the date that the Notice to Proceed (NTP) was acknowledged. The Contractor shall include as the first activity in the project schedule an activity called "Start Project". The "Start Project" activity shall have: an "ES" constraint, a constraint date equal to the date that the NTP was acknowledged, and a zero day duration.

#### 3.3.3.2 Constraint of Last Activity

Completion of the last activity in the schedule shall be constrained by the contract completion date. Calculation on project updates shall be such that if the early finish of the last activity falls after the contract completion date, then the float calculation shall reflect a negative float on the critical path. The Contractor shall include as the last activity in the project schedule an activity called "End Project". The "End Project" activity shall have: an "LF" constraint, a constraint date equal to the completion date for the project, and a zero day duration.

#### 3.3.3.3 Early Project Completion

In the event the project schedule shows completion of the project prior to the contract completion date, the Contractor shall identify those activities that have been accelerated and/or those activities that are scheduled in parallel to support the Contractor's "early" completion. Contractor shall specifically address each of the activities noted at every project schedule update period to assist the Contracting Officer in evaluating the Contractor's ability to actually complete prior to the contract period.

#### 3.3.4 Interim Completion Dates

Contractually specified interim completion dates shall also be constrained to show negative float if the early finish date of the last activity in that phase falls after the interim completion date. The required completion date of each task order shall be identified as interim completion dates on the Project Schedule.

#### 3.3.5 Default Progress Data Disallowed

Actual Start and Finish dates shall not be automatically updated by default mechanisms that may be included in CPM scheduling software systems. Actual Start and Finish dates on the CPM schedule shall match those dates provided from Contractor Quality Control Reports. Failure of the Contractor to document the Actual Start and Finish dates on the Daily Quality Control report for every in-progress or completed activity and ensure that the data contained on the Daily Quality Control reports is the sole basis for schedule updating shall result in the disapproval of the Contractor's schedule and the inability of the Contracting Officer to evaluate Contractor progress for payment purposes.

#### 3.3.6 Out-of-Sequence Progress

Activities that have posted progress without predecessors being completed (Out-of-Sequence Progress) will be allowed only on a case-by-case acceptance of the Contracting Officer. The Contracting Officer may direct that changes in schedule logic be made to correct any or all out-of-sequence work.

#### 3.3.7 Extended Non-Work Periods

Designation of Holidays to account for non-work periods of over 5 days will not be allowed. Non-work periods of over 5 days shall be identified by addition of activities that represent the delays. Modifications to the logic of the project schedule shall be made to link those activities that may have been impacted by the delays to the newly added delay activities.

#### 3.3.8 Negative Lags

Lag durations contained in the project schedule shall not have a negative value.

### 3.4 PROJECT SCHEDULE SUBMISSIONS

The Contractor shall provide the submissions as described below. The data disk, reports, and network diagrams required for each submission are contained in paragraph SUBMISSION REQUIREMENTS.

#### 3.4.1 Preliminary Project Schedule Submission

The Preliminary Project Schedule, defining the Contractor's planned operations for the first 90 calendar days shall be submitted for approval within 20 calendar days after Notice to Proceed is acknowledged. The accepted preliminary schedule shall be used for payment purposes not to exceed 90 calendar days after Notice to Proceed.

#### 3.4.2 Initial Project Schedule Submission

The Initial Project Schedule shall be submitted for acceptance within 60 calendar days after Notice to Proceed. The schedule shall provide a reasonable sequence of activities, which represent work through the entire project and shall be at a reasonable level of detail.

#### 3.4.3 Periodic Schedule Updates

Based on the result of progress meetings, specified in "Periodic Progress Meetings," the Contractor shall submit periodic schedule updates. These submissions shall enable the Contracting Officer or to assess Contractor's progress. If the Contractor fails or refuses to furnish the information and project schedule data, which in the judgment of the Contracting Officer or authorized representative, is necessary for verifying the contractor's progress, the Contractor shall be deemed not to have provided an estimate upon which progress payment may be made.

#### 3.4.4 Standard Activity Coding Dictionary

The Contractor shall submit, with the Initial Project Schedule, a coding scheme that shall be used throughout the project for all activity codes contained in the schedule. The coding scheme submitted shall list the values for each activity code category and translate those values into project specific designations. For example, a Responsibility Code Value,

"ELE", may be identified as "Electrical Subcontractor." Activity code values shall represent the same information throughout the duration of the contract. Once accepted with the Initial Project Schedule submission, changes to the activity coding scheme must be accepted by the Contracting Officer.

### 3.5 SUBMISSION REQUIREMENTS

The following items shall be submitted by the Contractor for the initial submission, and every periodic project schedule update throughout the life of the project:

#### 3.5.1 Data Disks

Two data disks or two sets of data disks containing the project schedule shall be provided. Data on the disks shall be in the Standard Data Exchange Format (SDEF), in accordance with ER-1-1-11, PROGRESS, SCHEDULES, AND NETWORK ANALYSIS SYSTEMS, Appendix A, Standard Data Exchange Format Specification (attached at the end of this Project Schedule specification.

##### 3.5.1.1 File Medium

Required data shall be submitted on 3.5-inch disks, formatted to hold 1.44 MB of data, under the MS-Windows operating system.

##### 3.5.1.2 Disk Label

A permanent exterior label shall be affixed to each disk submitted. The label shall indicate the type of schedule (Initial, Update, or Change), full contract number, project name, project location, data date, name and telephone number or person responsible for the schedule, and the operating system and version used to format the disk.

##### 3.5.1.3 File Name

Each file submitted shall have a name related to either the schedule data date, project name, or contract number. The Contractor shall develop a naming convention that will ensure that the names of the files submitted are unique. The Contractor shall submit the file naming convention to the Contracting Officer for approval.

#### 3.5.2 Narrative Report

A Narrative Report shall be provided with each update of the project schedule. This report shall be provided as the basis of the Contractor's progress payment request. The Narrative Report shall include: a description of activities along the critical path(s), a description of current and anticipated problem areas or delaying factors and their impact, and an explanation of corrective actions taken.

#### 3.5.3 Accepted Changes Verification

Only project schedule changes that have been previously accepted by the Contracting Officer shall be included in the schedule submission. The Narrative Report shall specifically reference, on an activity by activity basis, all changes made since the previous period and relate each change to documented, accepted schedule changes.

#### 3.5.4 Schedule Reports

The format for each activity for the schedule reports listed below shall contain: Activity Numbers, Activity Description, Original Duration, Remaining Duration, Early Start Date, Early Finish Date, Late Start Date, Late Finish Date, Total Float. Actual Start and Actual Finish Dates shall be printed for those activities in progress or completed.

##### 3.5.4.1 Activity Report

A list of all activities sorted according to activity number and then sorted according to Early Start Date. For completed activities the Actual Start Date shall be used as the secondary sort.

##### 3.5.4.2 Logic Report

A list of Preceding and Succeeding activities for every activity in ascending order by activity number and then sorted according to Early Start Date. For completed activities the Actual Start Date shall be used as the secondary sort.

##### 3.5.4.3 Total Float Report

A list of all activities sorted in ascending order of total float. Activities that have the same amount of total float shall be listed in ascending order of Early Start Dates.

##### 3.5.4.4 Earnings Report

A compilation of the Contractor's Total Earnings on the project from the Notice to Proceed until the most recent Monthly Progress Meeting. This report shall reflect the Earnings of specific activities based on the agreements made in the field and approved between the Contractor and Contracting Officer at the most recent Monthly Progress Meeting. Provided that the Contractor has provided a complete schedule update, this report shall serve as the basis of determining Contractor Payment. Activities shall be grouped by bid item and sorted by activity numbers. This report shall: sum all activities in a bid item and provide a bid item percent; and complete and sum all bid items to provide a total project percent complete. The printed report shall contain, for each activity: Activity Number, Activity Description, Original Budgeted Amount, Total Quantity, Quantity to Date, Percent Complete (based on cost), Earnings to Date.

#### 3.5.5 Network Diagram

The network diagram shall be required on the initial schedule submission, on monthly schedule update submissions, whenever any logic changes have occurred, to include addition or deletion of activities due to modifications to the task order scope, or issuance of new task orders. The network diagram shall depict and display the order and interdependence of activities and the sequence in which the work is to be accomplished. The activity or event number, description, duration, and estimated earned value shall be shown on the diagram. The Contracting Officer will use, but is not limited to, the following conditions to review compliance with this paragraph:

##### 3.5.5.1 Continuous Flow

Diagrams shall show a continuous flow from left to right with no arrows from right to left. The activity or event number, description, duration, and estimated earned value shall be shown on the diagram.

#### 3.5.5.2 Project Milestone Dates

Dates shall be shown on the diagram for start of project, any contract required interim completion dates, and contract completion dates.

#### 3.5.5.3 Critical Path

The critical path shall be clearly shown.

#### 3.5.5.4 Banding

Activities shall be grouped to assist in the understanding of the activity sequence. Typically, this flow will group activities by work area and/or responsibility.

#### 3.5.5.5 S-Curves

A graph of anticipated earnings (S-Curves) showing cumulative for the duration of the project. The vertical scale shall show earnings/percent complete from 0%-100%. The horizontal scale shall be a time scale showing the calendar months of the project. Three curves shall be plotted on the same graph; the earnings/percent complete based on early finish dates; the earnings/percent complete based on late finish dates; the actual earnings/percent complete to date.

#### 3.5.5.6. Bar Chart

A bar chart covering the previous month's activities and progress, and the planned activities over 3 months projected into the future. The chart shall also include actual and anticipated earnings.

### 3.6 PERIODIC PROGRESS MEETINGS

Progress meetings to discuss payment shall include a monthly onsite meeting or other regular intervals mutually agreed to at the preconstruction conference. During this meeting the Contractor shall describe, on an activity by activity basis, all proposed revisions and adjustments to the project schedule required to reflect the current status of the project. The Contracting Officer will accept activity progress, proposed revisions, and adjustments as appropriate.

#### 3.6.1 Meeting Attendance

The Contractor's Project Manager and Scheduler shall attend the regular progress meeting.

#### 3.6.2 Update Submission Following Progress Meeting

A complete update of the project schedule containing all accepted progress, revisions, and adjustments, based on the regular progress meeting, shall be submitted not later than 4 working days after the monthly progress meeting.

### 3.6.3 Progress Meeting Contents

Update information, including Actual Start Dates, Actual Finish Dates, Remaining Durations, and Cost-to-Date shall be subject to the approval of the Contracting Officer. The following is a minimum set of items that the Contractor shall address, on an activity by activity basis, during each progress meeting.

#### 3.6.3.1 Start and Finish Dates

The Actual Start and Actual Finish dates for each activity currently in-progress or completed activities.

#### 3.6.3.2 Time Completion

The estimated Remaining Duration for each activity in-progress. Time-based progress calculations must be based on Remaining Duration for each activity.

#### 3.6.3.3 Cost Completion

The earnings for each activity started. Payment will be based on earnings for each in-progress or completed activity. Payment for individual activities will not be made for work that contains quality defects. A portion of the overall project amount may be retained based on delays of activities.

#### 3.6.3.4 Logic Changes

All logic changes pertaining to Notice to Proceed on change orders, change orders to be incorporated into the schedule, contractor proposed changes in work sequence, corrections to schedule logic for out-of-sequence progress, lag durations, issuance of task orders, and other changes that have been made pursuant to contract provisions shall be specifically identified and discussed.

#### 3.6.3.5 Other Changes

Other changes required due to delays in completion of any activity or group of activities include: 1) delays beyond the Contractor's control, such as strikes and unusual weather. 2) delays encountered due to submittals, Government Activities, deliveries or work stoppages which make re-planning the work necessary, and 3) a schedule which does not represent the actual prosecution and progress of the work.

### 3.7 REQUESTS FOR TIME EXTENSIONS

In the event the Contractor requests an extension of the task order completion date, he shall furnish such justification, project schedule data and supporting evidence as the Contracting Officer may deem necessary for a determination as to whether or not the Contractor is entitled to an extension of time under the provisions of the contract. Submission of proof of delay, based on revised activity logic, duration, and costs (updated to the specific date that the delay occurred) is obligatory to any acceptance.

#### 3.7.1 Justification of Delay

The project schedule shall clearly display that the Contractor has used, in full, all the float time available for the work involved with this request. The Contracting Officer's determination as to the number of allowable days of task order extension shall be based upon the project schedule updates in effect for the time period in question, and other factual information. Actual delays that are found to be caused by the Contractor's own actions, which result in the extension of the schedule, will not be a cause for a time extension to the task order completion date.

### 3.7.2 Submission Requirements

The Contractor shall submit a justification for each request for a change in the task order completion date of under 2 weeks based upon the most recent schedule update at the time of the Notice to Proceed or constructive direction issued for the change. Such a request shall be in accordance with the requirements of other appropriate Contract Clauses and shall include, as a minimum:

- a. A list of affected activities, with their associated project schedule activity number.
- b. A brief explanation of the causes of the change.
- c. An analysis of the overall impact of the changes proposed.
- d. A sub-network of the affected area.

Activities impacted in each justification for change shall be identified by a unique activity code contained in the required data file.

### 3.7.3 Additional Submission Requirements

For any requested time extension of over 2 weeks, the Contracting Officer may request an interim update with revised activities for a specific change request. The Contractor shall provide this disk within 4 days of the Contracting Officer's request.

## 3.8 DIRECTED CHANGES

If Notice to Proceed (NTP) is issued for changes prior to settlement of price and/or time, the Contractor shall submit proposed schedule revisions to the Contracting Officer within 2 weeks of the NTP being issued. The proposed revisions to the schedule will be accepted by the Contracting Officer prior to inclusion of those changes within the project schedule. If the Contractor fails to submit the proposed revisions, the Contracting Officer may furnish the Contractor suggested revisions to the project schedule. The Contractor shall include these revisions in the project schedule until revisions are submitted, and final changes and impacts have been negotiated. If the Contractor has any objections to the revisions furnished by the Contracting Officer, the Contractor shall advise the Contracting Officer within 2 weeks of receipt of the revisions. Regardless of the objections, the Contractor shall continue to update the schedule with the Contracting Officer's revisions until a mutual agreement in the revisions is reached. If the Contractor fails to submit alternative revisions within 2 weeks of receipt of the Contracting Officer's proposed revisions, the Contractor will be deemed to have concurred with the

Contracting Officer's proposed revisions. The proposed revisions will then be the basis for an equitable adjustment for performance of the work.

### 3.9 OWNERSHIP OF FLOAT

Float available in the schedule, at any time, shall not be considered for the exclusive use of either the Government or the Contractor.

-- End Of Section --

SECTION 01330

SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SUBMITTAL IDENTIFICATION

Submittals required are identified by SD numbers and titles as follows:

- SD-01 Preconstruction Submittals
- SD-02 Shop Drawings
- SD-03 Product Data
- SD-04 Samples
- SD-05 Design Data
- SD-06 Test Reports
- SD-07 Certificates
- SD-08 Manufacturer's Instructions
- SD-09 Manufacturer's Field Reports
- SD-10 Operation and Maintenance Data
- SD-11 Closeout Submittals

1.2 SUBMITTAL CLASSIFICATION

Submittals are classified as follows:

1.2.1 Government Approved/Accepted

Governmental approval/acceptance is required for extensions of design, critical materials, deviations, equipment whose compatibility with the entire system must be checked, and other items as designated by the Contracting Officer. Within the terms of the Contract Clause entitled "Specifications and Drawings for Construction," they are considered to be "shop drawings."

1.2.2 Information Only

All submittals not requiring Government approval will be for information only. They are not considered to be "shop drawings" within the terms of the Contract Clause referred to above.

1.3 APPROVED/ACCEPTED SUBMITTALS

The Contracting Officer's approval/acceptance of submittals shall not be construed as a complete check, but will indicate only that the general

method of construction, materials, detailing and other information are satisfactory. Approval/Acceptance will not relieve the Contractor of the responsibility for any error that may exist, as the Contractor under the CQC requirements of this contract is responsible for dimensions, the design of adequate connections and details, and the satisfactory construction of all work. After submittals have been approved/accepted by the Contracting Officer, no resubmittal for the purpose of substituting materials or equipment will be considered unless accompanied by an explanation of why a substitution is necessary.

#### 1.4 DISAPPROVED SUBMITTALS

The Contractor shall make all corrections required by the Contracting Officer and promptly furnish a corrected submittal in the form and number of copies specified for the initial submittal. If the Contractor considers any correction indicated on the submittals to constitute a change to the contract, a notice in accordance with the Contract Clause "Changes" shall be given promptly to the Contracting Officer.

#### 1.5 WITHHOLDING OF PAYMENT

Payment for materials incorporated in the work will not be made if required approvals/acceptances have not been obtained.

#### 1.6 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with this section:

##### SD-01 Preconstruction Submittals

Submittal Register (ENG Form 4288); G.  
Monthly Updates (ENG Form 4288)

Four copies of the completed ENG Form 4288, for the contract and for each task order.

One copy of the monthly updates for each task order shall be submitted together with the monthly progress payment requests. One copy of the update for the contract shall be submitted with each task order update.

#### PART 2 PRODUCTS (Not Applicable)

#### PART 3 EXECUTION

##### 3.1 GENERAL

The Contractor shall make submittals as required by the specifications. The Contracting Officer may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Units of weights and measures used on all submittals shall be the same as those used in the contract drawings. Each submittal shall be complete and in sufficient detail to allow ready determination of compliance with contract requirements. Prior to submittal,

all items shall be checked and approved by the Contractor's Quality Control (CQC) representative and each item shall be stamped, signed, and dated by the CQC representative indicating action taken. Proposed deviations from the contract requirements shall be clearly identified. Submittals shall include items such as: Contractor's, manufacturer's, or fabricator's drawings; descriptive literature including (but not limited to) catalog cuts, diagrams, operating charts or curves; test reports; test cylinders; samples; O&M manuals (including parts list); certifications; warranties; and other such required submittals. Submittals requiring Government approval shall be scheduled and made prior to the acquisition of the material or equipment covered thereby. Samples remaining upon completion of the work shall be picked up and disposed of in accordance with manufacturer's Material Safety Data Sheets (MSDS) and in compliance with existing laws and regulations.

### 3.2 SUBMITTAL REGISTER (ENG FORM 4288)

#### 3.2.1 REQUIREMENT

The contractor shall be responsible for preparing and maintaining a submittal register for the overall contract and one for each task order, in accordance with the provisions of this specification. The overall contract submittal register shall include all Division 1 submittals that apply to the entire contract, i.e. Accident Prevention Plan and Quality Control Plan, etc. In addition, each task order shall have its own submittal register that includes all of the administrative and technical submittals required for that particular task order.

#### 3.2.2 CONTRACT SUBMITTAL REGISTER

The submittal register (ENG Form 4288) for the overall contract shall be submitted within 14 calendar days of contract award or during the preconstruction conference, whichever comes first. The Contractor shall use the government-provided software, QCS (see Section 01312), to create the ENG Form 4288. The contractor is responsible for completing the columns labeled: Activity Number, Transmittal Number, and Contract Schedule Dates on the submittal register form. A copy of the form with the required contract submittals is furnished to the Contractor at the end of this section. Updates to the submittal register showing the Contractor action codes and actual submittal dates with Government action codes and action dates shall be submitted monthly together with the monthly payment request, or until all submittals have been satisfactorily completed.

#### 3.2.3 TASK ORDER SUBMITTAL REGISTER

At the end of this section is a copy of the submittal register listing those administrative submittals required for each task order. The contractor shall complete the columns listed in paragraph 3.2.2. In addition, each construction task order will include one set of ENG Form 4288 listing items of equipment and materials for which submittals are required by the specifications. This list may not be all inclusive and additional submittals may be required. The Contractor shall use the government-provided software, QCS (see Section 01312), to create the ENG Form 4288. The completed Submittal Register shall be submitted to the Contracting Officer for approval within 14 calendar days after task order Notice to Proceed. The submit dates and need dates in the submittal register shall be coordinated with the dates in the Contractor's progress schedule. Updates to the submittal register showing the Contractor action codes and actual

submittal dates with Government action codes and action dates shall be submitted monthly together with the monthly payment request, or until all submittals have been satisfactorily completed. When the progress schedule is revised, the submittal register shall also be revised and both resubmitted for approval. The approved submittal register will serve as a scheduling document for submittals and will be used to control submittal actions throughout the contract period.

### 3.3 SCHEDULING

Submittals covering component items forming a system or items that are interrelated shall be scheduled to be coordinated and submitted concurrently. Certifications to be submitted with the pertinent drawings shall be so scheduled. Adequate time (a minimum of 30 calendar days exclusive of mailing time) shall be allowed and shown on the register for review and approval by the Government. No delay damages or time extensions will be allowed for time lost in incorrect, incomplete and/or late submittals. An additional 15 calendar days shall be allowed and shown on the register for review and approval of submittals for food service equipment and refrigeration and HVAC control systems.

### 3.4 TRANSMITTAL FORM (ENG FORM 4025)

#### 3.4.1 USE

A transmittal form (ENG Form 4025) shall be used for submitting both Government approved and information only submittals in accordance with the instructions on the reverse side of the form. The Contractor shall use the government-provided software, QCS (see Section 01312), to create the ENG Form 4025. A separate transmittal form shall be used for each specification section. This form shall be properly completed by filling out all the heading blank spaces and identifying each item submitted. Special care shall be exercised to ensure proper listing of the specification paragraph and/or sheet number of the contract drawings pertinent to the data submitted for each item.

#### 3.4.2 NUMBERING

Transmittals shall be numbered. The transmittal number shall consist of 2 parts, the specification number and the sequence number, e.g. 01330-001. Each specification section shall begin with the sequence number, 001. Resubmittals shall be identified by a decimal number appended to the original transmittal number, e.g. 01330-001.1.

### 3.5 SUBMITTAL PROCEDURE

Submittals shall be made as follows:

#### 3.5.1 PROCEDURES

Submittals to the Contracting Officer are required in the number of copies identified in paragraphs 3.7 and 3.8 and shall be submitted to the appropriate field office as identified in the task order:

U.S. Army Corps of Engineer District, Honolulu  
Fort Shafter Resident Office  
Bldg 230

### 3.5.2 DEVIATIONS

- a. For submittals that include proposed deviations requested by the Contractor, the column "variation" on ENG Form 4025 shall be checked. The Contractor shall set forth in writing the reason for any deviations and annotate such deviations on the submittal. The Government reserves the right to rescind inadvertent approval of submittals containing unnoted deviations.
- b. In cases where "trade names or equal" are used in the plans and/or Technical Specifications, any "equal" substitution by the Contractor is considered a variance and will require the Government's approval. Approval action by the Contracting Officer will not relieve the Contractor of his quality control responsibility and compliance with the contract, except for those specific portions of the submittal which clearly highlight the departures from the contract, and which are brought to the attention of the Government. The Contractor shall be responsible for all corrective actions, when submittals containing provisions of non-compliance with the contract are not specifically brought to the Government's attention. Any associated cost or time loss from such corrective actions shall not be made subject to a claim against the Government.
- c. Variations from the contract requirements may require an appropriate contract modification prior to acceptance by the Government; however, such pending action shall not be a basis of claim for time or additional cost against the Government, since the Contractor still has the option to comply with the original contract requirements. If the variation is of a minor nature and does not affect a change in cost or time of performance, a modification may not be issued. All variations shall meet the standards set by the contract documents.

### 3.6 COORDINATION OF LAYOUTS

The Contractor Quality Control (CQC) organization is responsible for insuring that the shop drawings and submittals of the different trades are coordinated in order that space conflicts during installation/construction of mechanical, electrical, architectural, civil, structural and other items of work are avoided. The Contractor shall be required to prepare/develop coordinated working layout drawings prior to commencement of any feature of work, at any contractor tier, unless otherwise directed by the Contracting Officer. These layout drawings shall be reviewed and certified by the CQC organization prior to the start of work in any area. The CQC shall insure that layout drawings indicate all necessary features of work, providing for a coordinated arrangement of the various installations, giving full consideration for access to installed equipment/systems and the future maintenance of these items. Interference between equipment and systems or construction materials which cannot be resolved between Contractor and subcontracting tiers shall be resolved by the Contracting Officer at no additional cost to the Government, if it is determined that adequate space was available and installations could have been accommodated within the designated construction area through properly coordinated layout drawings. One (1) CQC certified copy of all layout drawings shall be available for Government's review five (5) working days prior to scheduled commencement of the work. Submission shall be made upon Government's request.

3.7 CONTROL OF SUBMITTALS

The Contractor shall carefully control his procurement operations to ensure that each individual submittal is made on or before the Contractor scheduled submittal date shown on the approved "Submittal Register."

3.8 GOVERNMENT APPROVED SUBMITTALS

Upon completion of review of submittals requiring Government approval, the submittals will be identified as having received approval by being so stamped and dated. 3 copies of the submittal will be retained by the Contracting Officer and 1 copy of the submittal will be returned to the Contractor.

3.9 INFORMATION ONLY SUBMITTALS

Submittals provided For Information Only (FIO) to the Government shall be submitted in three (3) copies, including resubmittals. Normally submittals for information only will not be returned. Approval of the Contracting Officer is not required on information only submittals. The Government reserves the right to require the Contractor to resubmit any item found not to comply with the contract. This does not relieve the Contractor from the obligation to furnish material conforming to the plans and specifications; will not prevent the Contracting Officer from requiring removal and replacement of nonconforming material incorporated in the work; and does not relieve the Contractor of the requirement to furnish samples for testing by the Government laboratory or for check testing by the Government in those instances where the technical specifications so prescribe.

3.10 STAMPS

Stamps used by the Contractor on the submittal data to certify that the submittal meets contract requirements shall be similar to the following:

CONTRACTOR
(Firm Name)
_____ Approved
_____ Approved with corrections as noted on submittal data and/or attached sheets(s).
SIGNATURE: _____
TITLE: _____
DATE: _____

-- End Of Section --

<b>SUBMITTAL REGISTER</b>				(ER 415-1-10)				TITLE AND LOCATION Proposed MEDCOM IDIQ				DATE 08 Mar 2002			
				CONTRACTOR				CONTRACT NUMBER				DACA83-02-R-0006 NA			
ACTIVITY No.	TRANS-MITTAL No.	ITEM No.	SPEC PARAGRAPH No.	DESCRIPTION OF SUBMITTAL	TYPE OF SUBMITTAL	CLASSIFICATION	REVIEWER	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		GOVERNMENT ACTION		
						FIO or GA	OFFICE / NAME	SUBMIT NEEDED BY	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	SUBMIT TO CORPS	CODE	DATE	
<b>SECTION - 01000</b>				<b>Description of Work</b>											
		1	01000 3.2.2	Organization Plan	SUBMITTALS	GA									
<b>SECTION - 01320</b>				<b>Project Schedule</b>											
		1	01320	Contract Schedule	SCHEDULES	FIO									
		2	01320	Periodic Schedule Update	SCHEDULES	FIO									
		3	01320 1.2	Qualifications	STATEMENTS	FIO									
<b>SECTION - 01330</b>				<b>Submittal Procedures</b>											
		1	01330 3.2	ENG Form 4288, Submittal Registe	SCHEDULES	FIO									
<b>SECTION - 01451</b>				<b>Contractor Quality Control</b>											
		1	01451 3.2	Quality Control Plan	STATEMENTS	GA									
<b>SECTION - 01900</b>				<b>MISCELLANEOUS PROVISIONS</b>											
		1	01900 1.4.2	Accident Prevention Plan	SUBMITTALS	GA									

<b>SUBMITTAL REGISTER</b>				(ER 415-1-10)		TITLE AND LOCATION Proposed MEDCOM IDIQ			DATE 08 Mar 2002								
CONTRACTOR						CONTRACT NUMBER			DACA83-02-R-0006 NA								
ACTIVITY No.	TRANS-MITTAL No.	ITEM No.	SPEC PARAGRAPH No.	DESCRIPTION OF SUBMITTAL	TYPE OF SUBMITTAL	CLASSIFICATION	REVIEWER	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		GOVERNMENT ACTION				
						FIO or GA	OFFICE / NAME	SUBMIT NEEDED BY	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	SUBMIT TO CORPS	CODE	DATE			
<b>SECTION - 00800</b>				<b>Special Clauses</b>													
		1	00800 52.236-4(d)	Roster of employees	SUBMITTALS	FIO											
		2	00800 52.236-4(d)	List of Automotiv e Vehicles	SUBMITTALS	FIO											
		3	00800 S-36.10	Warranty Implementation	STATEMENTS	FIO											
<b>SECTION - 01320</b>				<b>Project Schedule</b>													
		1	01320 3.4.1	Preliminary Project Schedule	SUBMITTALS	GA											
		2	01320 3.4.2	Initial Project Schedule	SUBMITTALS	GA											
		3	01320 3.4.3	Periodic Schedule Update	SCHEDULES	GA											
		4	01320 3.5.2	Narrative Report	REPORTS	FIO											
		5	01320 3.5.4	Schedule Reports	REPORTS	FIO											
<b>SECTION - 01330</b>				<b>Submittal Procedures</b>													
		1	01330 3.2	ENG Form 4288, Submittal Registe	SCHEDULES	GA											
<b>SECTION - 01430</b>				<b>ENVIRONMENTAL PROTECTION</b>													
		1	01430 1.3	Environmental Protection Plan	STATEMENTS	GA											
<b>SECTION - 01451</b>				<b>Contractor Quality Control</b>													
		1	01451 3.2	Task-Specific Quality Control Pl	STATEMENTS	GA											
<b>SECTION - 01900</b>				<b>MISCELLANEOUS PROVISIONS</b>													
		1	01900 1.3	As-Built Drawings	DRAWINGS	FIO											
		2	01900 1.1	Progress Chart	SCHEDULES	GA											
		3	01900 1.1	Inspection of Existing Condition	STATEMENTS	FIO											
		4	01900 1.1	Dust Control	STATEMENTS	GA											
		5	01900 1.1	Excavation/Trenching Clearance	RECORDS	FIO											
		6	01900 1.1	Condition of Contractor's Op/Sto	RECORDS	FIO											
		7	01900 1.4.3	Site-Specific Safety and Health	SUBMITTALS	GA											

RANGE : ALL

REGISTER : TASK ORDER

SORT : SECTION & ITEM

SECTION 01430

ENVIRONMENTAL PROTECTION

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

STATE OF HAWAII DEPARTMENT OF HEALTH (HIDOH)

HIDOH, Chapter 43	Administrative Rules, Title 11, Community Noise Control for Oahu
HIDOH, Chapter 59	Administrative Rules, Ambient Air Quality Standards
HIDOH, Chapter 60	Administrative Rules, Air Pollution Control

Tripler Army Medical Center (TAMC) Regulations

TAMC Reg 40-35	Management and Disposal of Hazardous Waste
TAMC Reg 40-87	Hazardous Material/Waste Management Plan

1.2 GENERAL REQUIREMENTS

This section covers prevention of environmental pollution and damage as the result of construction operations under this contract and for those measures set forth in the TECHNICAL REQUIREMENTS. For the purpose of this specification, environmental pollution and damage is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to man; or degrade the utility of the environment for aesthetic, cultural and/or historical purposes. The control of environmental pollution and damage requires consideration of air, water, and land, and includes management of visual aesthetics, noise, solid waste, radiant energy and radioactive materials, as well as other pollutants.

1.2.1 Subcontractors

Assurance of compliance with this section by subcontractors will be the responsibility of the Contractor.

1.2.2 Notification

The Contracting Officer will notify the Contractor in writing of any observed noncompliance with the aforementioned Federal, State or local laws or regulations, permits, and other elements of the Contractor's environmental protection plan. The Contractor shall, after receipt of such notice, inform the Contracting Officer of proposed corrective action and

take such action as may be approved. If the Contractor fails to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No time extensions will be granted or costs or damages allowed to the Contractor for any such suspension.

### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

#### SD-01 Preconstruction Submittals

##### Environmental Protection Plan ; G.

Within 14 calendar days of receipt of task order Notice to Proceed, the Contractor shall submit in writing an environmental protection plan. Approval of the Contractor's plan will not relieve the Contractor of his responsibility for adequate and continuing control of pollutants and other environmental protection measures. An environmental protection plan is required for all construction-type task orders, It shall include but not be limited to the following:

- a. A list of Federal, State, and local laws, regulations, and permits concerning environmental protection, pollution control and abatement that are applicable to the Contractor's proposed operations and the requirements imposed by those laws, regulations, and permits.
- b. Methods for protection of features to be preserved within authorized work areas. The Contractor shall prepare a listing of methods to protect resources needing protection; i.e., trees, shrubs, vines, grasses and ground cover, landscape features, air and water quality, fish and wildlife, soil, historical, archeological, and cultural resources.
- c. Procedures to be implemented to provide the required environmental protection and to comply with the applicable laws and regulations. The Contractor shall set out the procedures to be followed to correct pollution of the environment due to accident, natural causes, or failure to follow the procedures set out in accordance with the environmental protection plan.
- d. Location of the solid waste disposal area.
- e. Drawings showing locations of any proposed temporary excavations or embankments for haul roads, stream crossings, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials.
- f. Environmental monitoring plans for the job site, including land, water, air, and noise monitoring.
- g. Traffic control plan.

h. Methods of protecting surface and ground water during construction activities.

i. Work area plan showing the proposed activity in each portion of the area and identifying the areas of limited use or nonuse. Plan should include measures for marking the limits of use areas.

j. Plan of borrow area(s).

k. Training for his personnel during the construction period.

## PART 2 PRODUCTS (NOT APPLICABLE)

## PART 3 EXECUTION

### 3.1 PROTECTION OF ENVIRONMENTAL RESOURCES

The environmental resources within the project boundaries and those affected outside the limits of permanent work under this contract shall be protected during the entire period of this contract. The Contractor shall confine his activities to areas defined by the drawings and specifications.

#### 3.1.1 Land Resources

Prior to the beginning of any construction, the Contractor shall identify all land resources to be preserved within the Contractor's work area. Except in areas indicated on the drawings or specified to be cleared, the Contractor shall not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and land forms without special permission from the Contracting Officer. No ropes, cables, or guys shall be fastened to or attached to any trees for anchorage unless specifically authorized. Where such special emergency use is permitted, the Contractor shall provide effective protection for land and vegetation resources at all times as defined in the following subparagraphs.

##### 3.1.1.1 Work Area Limits

Prior to any construction, the Contractor shall mark the areas that are not required to accomplish all work to be performed under the task order. Isolated areas within the general work area that are to be saved and protected shall also be marked or fenced. Monuments and markers shall be protected before construction operations commence. Where construction operations are to be conducted during darkness, the markers shall be visible. The Contractor shall convey to his personnel the purpose of marking and/or protection of all necessary objects.

##### 3.1.1.2 Protection of Landscape

Trees, shrubs, vines, grasses, land forms and other landscape features indicated and defined on the drawings to be preserved shall be clearly identified by marking, fencing, or wrapping with boards, or any other approved techniques.

##### 3.1.1.3 Reduction of Exposure of Unprotected Erodible Soils

Earthwork brought to final grade shall be finished as indicated and specified. Side slopes and back slopes shall be protected as soon as practicable upon completion of rough grading. All earthwork shall be planned and conducted to minimize the duration of exposure of unprotected soils. Except in instances where the constructed feature obscures borrow areas, quarries, and waste material areas, these areas shall not initially be cleared in total. Clearing of such areas shall progress in reasonably sized increments as needed to use the areas developed as approved by the Contracting Officer.

#### 3.1.1.4 Protection of Disturbed Areas

Such methods as necessary shall be utilized to effectively prevent erosion and control sedimentation, including but not limited to the following:

a. Retardation and Control of Runoff: Runoff from the construction site shall be controlled by construction of diversion ditches, benches, and berms to retard and divert runoff to protected drainage courses, and any measures required by area wide plans approved under Paragraph 208 of the Clean Water Act.

b. Erosion and Sedimentation Control Devices: The Contractor shall construct or install all temporary and permanent erosion and sedimentation control features as indicated on the drawings. Temporary erosion and sediment control measures such as berms, dikes, drains, sedimentation basins, grassing, and mulching shall be maintained until permanent drainage and erosion control facilities are completed and operative.

c. Sediment Basins: When indicated in the task order, Sediment from construction areas shall be trapped in temporary or permanent sediment basins in accordance with basin plans shown on the drawings. The basins shall accommodate the runoff of a local 5-year storm. After each storm, the basins shall be pumped dry and accumulated sediment shall be removed as necessary to maintain basin effectiveness. Overflow shall be controlled by paved weir or by vertical overflow pipe, draining from the surface. The collected topsoil sediment shall be reused for fill on the construction site, and/or conserved (stockpiled) for use at another site(s). The Contractor shall institute effluent quality monitoring programs as required by State and local environmental agencies.

#### 3.1.1.5 Contractor Facilities and Work Areas

a. Location of Field Offices, Storage, and Other Contractor Facilities: The Contractors' field offices, staging areas, stockpile storage, and temporary buildings shall be placed in areas designated on the task order drawings or as directed by the Contracting Officer. Temporary movement or relocation of Contractor facilities shall be made only on approval by the Contracting Officer.

b. Borrow Areas on Government Property: When allowed in the task order, Borrow areas shall be managed to minimize erosion and to prevent sediment from entering nearby waters.

c. Spoil Areas on Government Property: When allowed in the task order, Spoil areas shall be managed and controlled to limit spoil to areas designated on the drawings and prevent erosion of soil or sediment from

entering nearby waters. Spoil areas shall be developed in accordance with the grading plan indicated on the task order drawings.

d. Temporary Excavations and Embankments: Temporary excavations and embankments for plant and/or work areas shall be controlled to protect adjacent areas from despoilment.

### 3.1.2 Disposal of Wastes

Disposal of wastes shall be as specified in Section 01900 MISCELLANEOUS PROVISIONS, the task order, and as specified hereinafter.

#### 3.1.2.1 Solid Wastes

Solid wastes (excluding clearing debris) shall be placed in containers that are emptied on a regular schedule. All handling and disposal shall be conducted to prevent contamination. Segregation measures shall be employed such that no hazardous or toxic waste will become commingled with solid waste. The Contractor shall transport all solid waste off Government property and dispose of it in compliance with Federal, State, and local requirements for solid waste disposal.

#### 3.1.2.2 Chemical Wastes:

*(For work in all areas other than Kwajalein:)* Chemical wastes shall be stored in corrosion resistant containers, removed from the work area and disposed of in accordance with Federal, State, and local laws and regulations.

*(For work on Kwajalein only:)* Chemicals shall be dispensed in a way to adequately ensure no spillage to ground or water. Periodic inspections of dispensing areas to identify leakage and initiate corrective action shall be performed and documented. This documentation will be periodically reviewed by the Government. Chemical waste shall be collected in corrosion resistant containers with care taken to ensure compatibility. Collection drums shall be monitored and removed to a staging or storage area when contents are within six inches of the top. All waste shall be disposed of in accordance with Federal and local laws and regulations.

#### 3.1.2.3 Hazardous Wastes:

The Contractor shall take sufficient measures to prevent spillage of hazardous and toxic materials during dispensing and shall collect waste in suitable containers observing compatibility. The Contractor shall transport all hazardous waste off Government property and dispose of it in compliance with Federal and local laws and regulations. Spills of hazardous or toxic materials shall be immediately reported to the Contracting Officer. Cleanup and cleanup costs due to spills shall be the responsibility of the Contractor.

### 3.1.3 Historical, Archeological, and Cultural Resources

Existing historical, archeological, and cultural resources within the Contractor's work area will be so designated by the Contracting Officer if any has been identified. The Contractor shall take precautions to preserve all such resources as they existed at the time they were pointed out to him. The Contractor shall provide and install all protection for these resources

so designated and shall be responsible for their preservation during this contract. If during excavation or other construction activities in areas with existing or known resources, as well as in any other work area, any previously unidentified or unanticipated resources are discovered or found, all activities that may damage or alter such resources shall be temporarily suspended. These resources or cultural remains (prehistoric or historic surface or subsurface) include but are not limited to: any human skeletal remains or burials; artifacts; shell, midden, bone, charcoal, or other deposits; rocks or coral alignments, paving, wall, or other constructed features; and any indication of agricultural or other uses. Upon such discovery or find, the Contractor shall immediately notify the Contracting Officer. When so notified, the Contracting Officer will initiate action so that prompt and proper data recovery can be accomplished. In the mean time, recording and preservation of historical and archeological finds during construction activities shall be reported in accordance with the SPECIAL CONTRACT REQUIREMENTS.

#### 3.1.4 Water Resources

The Contractor shall keep construction activities under surveillance, management, and control to avoid pollution of surface and ground waters. Special management techniques as set out below shall be implemented to control water pollution by the listed construction activities that are included in this contract.

*(For work on Kwajalein only:)* In particular, toxic or hazardous chemicals shall not be applied to soil or vegetation in a manner that may cause contamination of the fresh water reserve.

##### 3.1.4.1 Washing and Curing Water

Waste waters directly derived from construction activities shall not be allowed to enter water areas. These waste waters shall be collected and placed in retention ponds where suspended material can be settled out or the water evaporates so that pollutants are separated from the water.

*(For work on Kwajalein only:)* Analysis shall be performed and results reviewed and approved by the Government before water in retention ponds is discharged.

##### 3.1.4.4 Monitoring of Water Areas:

Monitoring of water areas affected by construction activities shall be the responsibility of the Contractor. All water areas affected by construction activities shall be monitored by the Contractor.

#### 3.1.5 Fish and Wildlife Resources

The Contractor shall keep construction activities under surveillance, management and control to minimize interference with, disturbance to and damage of fish and wildlife. Species that require specific attention along with measures for their protection will be listed by the Contractor prior to beginning of construction operations.

#### 3.1.6 Air Resources

The Contractor shall keep construction activities under surveillance, management and control to minimize pollution of air resources. All activities, equipment, processes, and work operated or performed by the Contractor in accomplishing the specified construction shall be in strict accordance with HDOH, Chapter 59, HDOH, Chapter 60, (for work performed in Hawaii only) and all Federal emission and performance laws and standards. Ambient Air Quality Standards set by the Environmental Protection Agency shall be maintained for those construction operations and activities specified in this section. Special management techniques as set out below shall be implemented to control air pollution by the construction activities that are included in the task order.

#### 3.1.6.1 Particulates

a. Dust particles, aerosols, and gaseous by-products from all construction activities, processing and preparation of materials, such as from asphaltic batch plants, shall be controlled at all times, including weekends, holidays and hours when work is not in progress.

b. The Contractor shall maintain all excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and all other work areas within or outside the project boundaries free from particulates which would cause the air pollution standards mentioned in paragraph Air Resources, herein before, to be exceeded or which would cause a hazard or a nuisance. Sprinkling, chemical treatment of an approved type, light bituminous treatment, baghouse, scrubbers, electrostatic precipitators or other methods will be permitted to control particulates in the work area. Sprinkling, to be efficient, must be repeated at such intervals as to keep the disturbed area damp at all times. The Contractor must have sufficient competent equipment available to accomplish this task. Particulate control shall be performed as the work proceeds and whenever a particulate nuisance or hazard occurs.

#### 3.1.6.2 Hydrocarbons and Carbon Monoxide

Hydrocarbons and carbon monoxide emissions from equipment shall be controlled to Federal and State allowable limits at all times.

#### 3.1.6.3 Odors

Odors shall be controlled at all times for all construction activities, processing and preparation of materials.

#### 3.1.6.4 Monitoring of Air Quality

Monitoring of air quality shall be the responsibility of the Contractor. All air areas affected by the construction activities shall be monitored by the Contractor.

#### 3.1.7 Sound Intrusions

The Contractor shall keep construction activities under surveillance, and control to minimize damage to the environment by noise. The Contractor shall comply with the provisions of HDOH, Chapter 43 (for work in Hawaii only).

### 3.2 POST CONSTRUCTION CLEANUP

The Contractor shall clean up area(s) used for construction.

### 3.3 RESTORATION OF LANDSCAPE DAMAGE

The Contractor shall restore all landscape features damaged or destroyed during construction operations outside the limits of the approved work areas. Such restoration shall be in accordance with the plan submitted for approval by the Contracting Officer. This work will be accomplished at the Contractor's expense.

### 3.4 MAINTENANCE OF POLLUTION CONTROL FACILITIES

The Contractor shall maintain all constructed facilities and portable pollution control devices for the duration of the contract or for that length of time construction activities create the particular pollutant.

### 3.5 TRAINING OF CONTRACTOR PERSONNEL IN POLLUTION CONTROL

The Contractor shall train his personnel in all phases of environmental protection. The training shall include methods of detecting and avoiding pollution, familiarization with pollution standards, both statutory and contractual, and installation and care of facilities (vegetative covers, and instruments required for monitoring purposes) to ensure adequate and continuous environmental pollution control.

-- End Of Section --

SECTION 01451

CONTRACTOR QUALITY CONTROL SYSTEM MANAGER

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- |             |   |
|-------------|---|
| ASTM D 3740 | (1996) Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction |
| ASTM E 329  | (1995b) Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction   |

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

- |               |  |
|---------------|--|
| ISO/IEC 17025 | (1999) General Requirements for the Competence of Testing and Calibration Laboratories |
|---------------|--|

U.S. ARMY CORPS OF ENGINEERS

- |                |  |
|----------------|--|
| EM 200-1-1     | (1994) Environmental Quality - Validation of Analytical Chemical Laboratories  |
| EM 200-1-6     | (1997) Environmental Quality - Chemical Quality Assurance for Hazardous, Toxic and Radioactive Waste (HTRW) Projects         |
| EM 1110-2-1906 | (1986) Laboratory Soils Testing  |
| ER 1110-1-261  | (1999) Engineering and Design - Quality Assurance of Laboratory Testing Procedures   |
| ER 1110-1-263  | (1998) Engineering and Design - Chemical Data Quality Management for Hazardous, Toxic, Radioactive Waste Remedial Activities |

1.2 DEFINITIONS

The Contractor's **Quality Control Program** shall apply to the entire contract, including individual task orders. The Contractor is responsible for quality control and shall establish and maintain an effective quality control program in compliance with the Contract Clause titled "Inspection of Construction." The quality control program shall consist of plans, procedures, and organization necessary to produce an end product that

complies with the contract requirements. The program shall cover all construction operations, both onsite and offsite, and shall be keyed to the proposed construction sequence.

The Contractor shall develop and implement a **Quality Control Plan** that documents the methods and procedures to be used to ensure quality construction throughout the contract.

Quality control on each task order shall be governed by a **Task Order-Specific Quality Control Plan**.

### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Quality Control Plan; G.

Task Order-Specific Quality Control Plan; G.

### 1.2 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program, and all costs associated therewith shall be included in the applicable unit prices or lump-sum prices contained in the Bidding Schedule.

## PART 2 PRODUCTS (NOT APPLICABLE)

## PART 3 EXECUTION

### 3.1 GENERAL

The project superintendent will be held responsible for the quality of work on the job and is subject to removal by the Contracting Officer for non-compliance with quality requirements specified in the contract and task order. The project superintendent in this context shall mean the individual with the responsibility for the overall management of the task order including quality and production.

### 3.2 QUALITY CONTROL PLAN

#### 3.2.1 Contract Quality Control

The Contractor shall furnish for review by the Government, not later than 30 days after contract award, the Contractor Quality Control (CQC) Plan proposed to implement the requirements of the Contract Clause titled "Inspection of Construction." The plan shall identify personnel, procedures, control, instructions, test, records, and forms to be used. The Government will consider an interim plan for the first 90 days of operation. Construction will be permitted to begin only after acceptance of the CQC Plan or acceptance of an interim task order-specific plan applicable to the particular feature of work to be started. Work outside of the features of work included in an accepted interim plan will not be permitted to begin

until acceptance of a CQC Plan or another interim plan containing the additional features of work to be started.

### 3.2.2 Task Order-Specific Quality Control

The task order-specific quality control (QC) plan shall be submitted to the Contracting Officer for acceptance not later than 14 days, or an agreed to shorter period, after receipt of the task order notice to proceed. The task order-specific quality control plan shall be developed such that it applies to the specific conditions of the individual task order. Work on task orders shall not commence prior to receiving the Contracting Officer's written acceptance of both the contract Quality Control Plan and the task order-specific quality control plan.

### 3.2.3 Content of the CQC Plan

The CQC Plan shall include, as a minimum, the following to cover all construction operations, both onsite and offsite, including work by subcontractors, fabricators, suppliers, and purchasing agents:

- a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff shall implement the three phase control system for all aspects of the work specified. The staff shall include a CQC System Manager who shall report to the project superintendent.
- b. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the contract. The CQC System Manager shall issue letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities. Copies of these letters shall also be furnished to the Government.
- c. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents. These procedures shall be in accordance with Section 01330 SUBMITTAL PROCEDURES.
- d. For all proposed QC materials testing laboratories the contractor must submit the current Certificate of Accreditation and Scope of Accreditation (Test Procedures/Methods Approved) from one of the nationally recognized accreditation authority listed in paragraph 3.7.2.1.a(1). The submitted accreditations shall include the test methods required by the Contract, and must be less than 2 years old. The contractor shall also submit proof that an audit of the laboratory was performed by an HED (or Materials Testing Center, Vicksburg, MS, MTC) Audit Team within the past 3 years, or have the laboratory audited by HED or MTC if not yet done, or if expired.
- e. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.

f. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures shall establish verification that identified deficiencies have been corrected.

g. Reporting procedures, including proposed reporting formats.

#### 3.2.4 Content of the Task Order-Specific Quality Control Plan

The Task Order-Specific Quality Control Plan shall include, as a minimum, the following to cover all task order construction operations, both onsite and offsite, including work by subcontractors, fabricators, suppliers, and purchasing agents:

a. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function. Technicians responsible for sampling and testing of concrete shall be certified by the American Concrete Institute (ACI) or the Concrete Technicians Association of Hawaii (CTAH). Proof of certification shall be included in the task specific-quality control Plan. Personnel qualifications may be furnished incrementally as the work progresses, but in no case, less than fourteen (14) calendar days before personnel are required on the job.

b. A copy of the letter to the Quality Control Representative (QCR) signed by the CQCSM which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the QCR, including authority to stop work which is not in compliance with the contract. A copy of this letter shall also be furnished to the Government.

c. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test.

d. A list of the definable features of work. A definable feature of work is a task that is separate and distinct from other tasks, has separate control requirements, and may be identified by different trades or disciplines, or it may be work by the same trade in a different environment. Although each section of the specifications may generally be considered as a definable feature of work, there are frequently more than one definable features under a particular section. This list will be agreed upon during the coordination meeting.

#### 3.2.3 Acceptance of Plan

Acceptance of the Contractor's plans is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in his CQC Plan, task order-specific QC plan, and operations including removal of personnel, as necessary, to obtain the quality specified.

#### 3.2.4 Notification of Changes

After acceptance of the CQC and task order-specific QC Plans, the Contractor shall notify the Contracting Officer in writing of any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

#### 3.3 COORDINATION MEETINGS

After the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the CQC Plan, the Contractor shall meet with the Contracting Officer or Authorized Representative and discuss the Contractor's quality control program. The CQC Plan shall be submitted for review a minimum of 7 calendar days prior to the Coordination Meeting. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting will be prepared by the Government and signed by both the Contractor and the Contracting Officer's Representative. The minutes shall become a part of the contract file. There may be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings and/or address deficiencies in the CQC system or procedures that may require corrective action by the Contractor.

During the pre-work conference for each task order, the contractor and the Government will discuss the details and implementation of the task order-specific QC plan. The contractor's task order-specific QC plan shall be submitted at this meeting.

#### 3.4 QUALITY CONTROL ORGANIZATION

##### 3.4.1 General

The requirements for the CQC organization are a CQC System Manager (CQCSM), Quality Control Representatives (QCR), and sufficient number of additional qualified personnel to ensure contract compliance. The Contractor shall provide a QCR on each task order who shall be at the site at all times during progress of the work and with complete authority to take any action necessary to ensure compliance with the contract. All CQC staff members shall be subject to acceptance by the Contracting Officer.

##### 3.4.2 CQC System Manager

The Contractor shall identify as CQC System Manager an individual within the onsite work organization who shall be responsible for overall management of CQC on the contract and have the authority to act in all CQC matters for the Contractor. The CQC System Manager shall be a construction person with a minimum of five (5) years experience in quality control on Department of Defense construction projects similar in size and scope to this contract. The CQC System Manager shall be employed by the prime Contractor. The CQC System Manager shall be assigned no other duties. An alternate for the CQC System Manager shall be identified in the plan to serve in the event of the System Manager's absence. The requirements for the alternate shall be the same as the designated CQC System Manager.

##### 3.4.3 Quality Control Representative

The Contractor shall identify as Quality Control Representative (QCR) an individual within the onsite work organization who shall be responsible for management of CQC on the task order and have the authority to act in all CQC matters on the task order for the Contractor. The QCR shall be a construction person with a minimum of three (3) years experience in quality control on Department of Defense construction projects similar in size and scope to the task order. The QCR shall be on the site at all times during construction and shall be employed by the prime Contractor. The QCR may have duties as task order superintendent in addition to quality control only if specifically allowed in the task order. Otherwise, the QCR shall have no other duties. An alternate for the QCR shall be identified in the plan to serve in the event of the QCR's absence. The requirement for the alternate shall be the same as for the designated QCR.

### 3.4.3 CQC Personnel

In addition to CQC personnel specified elsewhere in the contract, the Contractor shall provide as part of the CQC organization specialized personnel to assist the CQC System Manager and QCR. Unless otherwise stated in the task order, these individuals, when required, may be employees of the prime or subcontractor; shall be responsible to the CQC System Manager and QCR; be physically present at the construction site during work on their areas of responsibility; have the necessary education and/or experience in accordance with the experience matrix listed herein.

#### Experience Matrix

	<u>Area</u>	<u>Qualifications</u>
a.	Civil	Graduate Civil Engineer with 2 years experience in the type of work being performed on this project or technician with 5 yrs related experience
b.	Mechanical	Graduate Mechanical Engineer with 2 yrs experience or person with 5 yrs related experience
c.	Electrical	Graduate Electrical Engineer with 2 yrs related experience or person with 5 yrs related experience
d.	Structural	Graduate Structural Engineer with 2 yrs experience or person with 5 yrs related experience
e.	Architectural	Graduate Architect with 2 yrs experience or person with 5 yrs related experience
f.	Environmental	Graduate Environmental Engineer with 3 yrs experience
g.	Submittals	Submittal Clerk with 1 yrs

experience

- h. Occupied family housing      Person, customer relations type, coordinator experience
- i. Concrete, Pavements and Soils Materials Technician with 2 yrs experience for the appropriate area

If it is subsequently determined by the Contracting Officer that the minimum contract CQC requirements are not being met, the Contractor may be required to provide additional staff personnel to the CQC organization at no cost to the Government.

#### 3.4.4 Additional Requirement

The CQC System Manager, all Quality Control Representatives, and any alternates shall have completed the course entitled "Construction Quality Management For Contractors" within the past 5 years. This course is periodically offered at the General Contractors Association of Hawaii.

#### 3.4.5 Organizational Changes

The Contractor shall maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, the Contractor shall revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance.

#### 3.5 SUBMITTALS

Submittals shall be made as specified in Section 01330 SUBMITTAL PROCEDURES. The CQC organization shall be responsible for certifying that all submittals are in compliance with the contract requirements.

#### 3.6 CONTROL

Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. The CQC System Manager or QCR shall conduct at least three phases of control for each definable feature of work as follows:

##### 3.6.1 Preparatory Phase

This phase shall be performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. This phase shall include:

- a. A review of each paragraph of applicable specifications.
- b. A review of the contract drawings.
- c. A check to assure that all materials and/or equipment have been tested, submitted, and approved.

- d. Review of provisions that have been made to provide required control inspection and testing.
- e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the contract.
- f. A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
- g. A review of the appropriate activity hazard analysis to assure safety requirements are met.
- h. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
- i. A check to ensure that the portion of the plan for the work to be performed has been accepted by the Contracting Officer.
- j. Discussion of the initial control phase.
- k. The Government shall be notified at least 2 workdays in advance of beginning the preparatory control phase for construction on Oahu. For construction in areas other than Oahu, a minimum of 7 calendar days advance notice is required. This phase shall include a meeting conducted by the QCR and attended by the superintendent, other QOC personnel (as applicable), and the foreman responsible for the definable feature. The results of the preparatory phase actions shall be documented by separate minutes prepared by the QCR and attached to the daily QOC report. The Contractor shall instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

### 3.6.2 Initial Phase

This phase shall be accomplished at the beginning of a definable feature of work. The following shall be accomplished:

- a. A check of work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.
- b. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing.
- c. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
- d. Resolve all differences.
- e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.

f. The Government shall be notified at least 1 workday in advance of beginning the initial phase for construction on Oahu. For construction in areas other than Oahu, a minimum of 7 calendar days advance notice is required. Separate minutes of this phase shall be prepared by the QCR and attached to the daily CQC report. Exact location of initial phase shall be indicated for future reference and comparison with follow-up phases.

g. The initial phase should be repeated for each new crew to work onsite, or any time acceptable specified quality standards are not being met.

### 3.6.3 Follow-up Phase

Daily checks shall be performed to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the particular feature of work. The checks shall be made a matter of record in the CQC documentation. Final follow-up checks shall be conducted and all deficiencies corrected prior to the start of additional features of work that may be affected by the deficient work. The Contractor shall not build upon nor conceal non-conforming work.

### 3.6.4 Additional Preparatory and Initial Phases

Additional preparatory and initial phases shall be conducted on the same definable features of work if the quality of on-going work is unacceptable, if there are changes in the applicable CQC staff, onsite production supervision or work crew, if work on a definable feature is resumed after a substantial period of inactivity, or if other problems develop.

## 3.7 TESTS

### 3.7.1 Testing Procedure

The Contractor shall perform specified or required tests to verify that control measures are adequate to provide a product that conforms to contract requirements. Upon request, the Contractor shall furnish to the Government duplicate samples of test specimens for possible testing by the Government. Testing includes operation and/or acceptance tests when specified. The Contractor shall obtain the services of an industry-recognized testing laboratory accepted by the Honolulu Engineer District (HED), or may establish a testing laboratory at the project site acceptable to the Contracting Officer. No accepted Contractor's Quality Control (CQC) laboratory may act as both CQC materials testing laboratory and the Government's Quality Assurance (QA) laboratory on the same project. Additionally, tests contractually required to be performed by an industry-recognized testing laboratory shall not be accomplished by the Contractor-established on-site laboratory.

The Contractor's testing procedures shall include the following activities and shall record and provide the following data:

- a. Verify that testing procedures comply with contract requirements.

b. Verify that facilities and testing equipment are available and comply with testing standards.

c. Check test instrument calibration data against certified standards.

d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.

e. Results of all tests taken, both passing and failing tests, shall be recorded on the CQC report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test shall be given. If approved by the Contracting Officer, actual test reports may be submitted later with a reference to the test number and date taken. An information copy of tests performed by an offsite or commercial test facility shall be provided directly to the Contracting Officer. Failure to submit timely test reports as stated may result in nonpayment for related work performed and disapproval of the test facility for this contract.

### 3.7.2 Testing Laboratories

#### 3.7.2.1 Validation Requirements

Validation of QC laboratories is required to ensure that the QC laboratory is qualified to perform the tests required for this contract. Validation of a laboratory will consist of both inspection and validation audit

a. Inspection: An On-site examination of a laboratory will be performed by a Corps of Engineers audit team. The standards of acceptability are as follows:

(1) Materials Testing Laboratory: (Aggregate, Concrete, Bituminous Materials, Soil and Rock) Laboratories providing testing of these materials will be validated for compliance with ASTM E 329, ASTM D 3740, Engineer Manual EM 1110-2-1906, or project specifications, as applicable.

The QC testing laboratory performing the actual testing on the project must be accredited by one of the following laboratory accreditation authorities:

ICBO Evaluation Service, Inc. (ICBO ES)  
Cement and Concrete Reference Laboratory (CCRL)  
American Assoc. of State Highway & Transportation Officials (AASHTO)  
National Voluntary Laboratory Accreditation Program (NVLAP)  
American Association for Laboratory Accreditation (A2LA)  
Materials Testing Center (MTC)-USACE Waterways Experiment Station (WES)

(2) Materials Testing Laboratory: (Steel and Other Construction Materials) Laboratories providing testing of these materials will be validated to ensure capability to perform tests required for project specifications and for compliance with ASTM E 329.

(3) Water Quality Laboratory: Laboratories engaged in routine (non-hazardous) analysis of water, wastewater, sludge, sediment, and other samples for chemical analysis will be inspected to ensure capability to perform analyses and have quality control procedures, as described in ER 1110-1-261 as appropriate. State and municipal certified laboratories performing these tests will be accepted. The use of analytical methods for procedures not addressed in ER 1110-1-261 will be evaluated by USACE Chemistry Quality Assurance Branch (CQAB), Omaha, Nebraska for conformance with project or program requirements.

(4) HTRW/Environmental Laboratory: Chemical quality assurance is required to ensure analytical data generated for this project meet high quality data satisfying the project specific data quality objectives, in accordance with ER 1110-1-263 and EM 200-1-6. Analytical laboratories within the 50 United State of America and its territories are required to obtain a USACE (Corps of Engineers) laboratory validation prior to start of field work or sample analyses and maintain the validation status throughout the response activities as outlined in EM 200-1-1, and at least every two years thereafter. Outside these areas, the analytical laboratory shall be certified to meet or exceed ISO/IEC 17025 requirements and be acceptable to the Contracting Officer, and in accordance to the current HED written policies and procedures establishing the validation method and certification period.

b. Validation Audit and Process: Validation is the process that HED uses to verify that the laboratory is qualified to perform required test procedures in this contract. A laboratory may be validated by auditing if it has been accredited by one of the accrediting agencies listed above within the past two years in accordance with ASTM E 329. The audit will be performed by either HED or MTC as follows:

(1) Auditing by HED: Provided a Hawaii laboratory has a current certification from one of the agencies listed in paragraph 3.7.2.1.a(1), a validation is obtained by an on-site laboratory validation inspection by the HED Audit Team for materials laboratories testing aggregate, cement, concrete, bituminous materials, soil and rock. There is no cost for this HED audit validation but allow a minimum 14 days advance notice for scheduling purposes.

Point of contact for obtaining a HED validation audit is:

- (I) Harley D. Rowe, (808) 438-1344, or
- (II) Raymond W. Kong, (808) 438-6953

at the following address:

U.S. Army Corps of Engineers  
Bldg. 230, ATTN: CEPOH-EC-CQ  
Ft. Shafter, Hawaii 96858-5440

For materials laboratories testing other than those listed in 3.7.2.1.a(1), the Contractor's laboratory must meet the requirements specified, subject to review and acceptance by the Government.

(2) Auditing or Inspection by MTC: If a validated laboratory is unavailable or the Contractor desires to use a laboratory that has not been previously validated that doesn't qualify under the requirements of paragraph 3.7.2.1.b, Contractor shall coordinate with the Corps of Engineers Material Testing Center (MTC) to obtain validation and must pay all associated costs. Inspection by MTC may be required after auditing if one or more of the critical testing procedures required by the project specification were not included in the agency inspection report or if there is any concern that the laboratory may not be able to provide required services. The Contractor is cautioned that the validation process is complicated and lengthy, requires an onsite inspection by MTC staff, correction of identified deficiencies, and the submittal and approval of significant documentation. Estimate a minimum of 60 days to schedule an inspection and receive validation. Cost of onsite inspections is \$2500 plus travel time and expenses from Vicksburg MS. Cost of audit is \$1500. If an onsite inspection is required following an audit, the cost of the inspection will be \$1500 plus travel time and expenses. The Contractor will be invoiced for actual travel costs and shall submit payment directly to the MTC made payable to the ERDC Finance and Accounting Officer prior to the scheduling of the inspection and/or audit. Costs are subject to change. For current costs, and obtaining inspection/audit request forms, access the MTC web site:  
<http://www.wes.army.mil/SL/MTC/mtc.htm>

Point of contact at MTC is:

Daniel Leavell, telephone (601) 634-2496,  
fax (601) 634-4656,  
email: [daniel.a.leavell@erdc.usace.army.mil](mailto:daniel.a.leavell@erdc.usace.army.mil)

Address:

U.S. Army Corps of Engineers  
Materials Testing Center  
Waterways Experiment Station  
3909 Hall Ferry Road  
Vicksburg, MS 39180-6199

The Contractor shall furnish the Contracting Officer with a copy of all correspondence and submittals to the MTC for purposes of laboratory validation.

c. Validation Requirements

(1) An initial validation by HED must be performed prior to performance of testing and at least every three (3) years thereafter of all laboratories used by the contractor for testing aggregate, concrete, bituminous materials, soils, rock, and other construction materials,

(2) Laboratories performing water quality, wastewater, sludge, and sediment testing must be validated at least every eighteen (18) months.

(3) Any laboratory may be revalidated at any time at the discretion of the Corps of Engineers when conditions are judged to differ substantially from the conditions when last validated.

### 3.7.2.2 Capability Check

The Government reserves the right to check laboratory equipment in the proposed laboratory for compliance with the standards set forth in the contract specifications and to check the laboratory technician's testing procedures and techniques. Laboratories utilized for testing soils, concrete, asphalt, and steel shall meet criteria detailed in ASTM D 3740 and ASTM E 329.

### 3.7.2.3 Capability Recheck

If the selected laboratory fails the capability check, the Contractor shall reimburse the Government for each succeeding recheck of the laboratory or the checking of a subsequently selected laboratory. Such costs will be deducted from the contract amount due the Contractor.

### 3.7.3 Onsite Laboratory

The Government reserves the right to utilize the Contractor's control testing laboratory and equipment to make quality assurance tests and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

### 3.7.4 Furnishing or Transportation of Samples for Testing

Costs incidental to the transportation of samples or materials shall be borne by the Contractor. Samples of materials for test verification and acceptance testing by the Government shall be delivered to a testing laboratory on the Island of Oahu, State of Hawaii, designated by the Contracting Officer. Coordination for each specific test, exact delivery location, and dates will be made through the Government field office.

## 3.8 COMPLETION INSPECTION

### 3.8.1 Punch-Out Inspection

Near the completion of all work or any increment thereof established by a completion time stated in the Special Clause entitled "Commencement, Prosecution, and Completion of Work," or stated elsewhere in the specifications, the CQC System Manager shall conduct an inspection of the work and develop a punch list of items which do not conform to the approved drawings and specifications. Such a list of deficiencies shall be included in the CQC documentation, as required by paragraph DOCUMENTATION below, and shall include the estimated date by which the deficiencies will be corrected. The CQC System Manager, QCR, or staff shall make a second inspection to ascertain that all deficiencies have been corrected. Once this is accomplished, the Contractor shall notify the Government that the facility is ready for the Government Pre-Final inspection.

### 3.8.2 Pre-Final Inspection

The Government will perform this inspection to verify that the facility is complete and ready to be occupied. The QCR shall develop a punch list of items that do not conform to the contract documents. The Government will review the punch list and add to or correct the items listed. The QCR shall incorporate Government comments and provide a Pre-Final Punch List. The Contractor's CQC System Manager or QCR shall ensure that all items on this

list have been corrected before notifying the Government to schedule a Final inspection with the customer. Any items noted on the Pre-Final inspection shall be corrected in a timely manner. These inspections and any deficiency corrections required by this paragraph shall be accomplished within the time slated for completion of the entire work or any particular increment thereof if the project is divided into increments by separate completion dates.

### 3.8.3 Final Acceptance Inspection

The Contractor's Quality Control Inspection personnel, plus the superintendent or other primary management person, and the Contracting Officer's Representative shall be in attendance at this inspection. Additional Government personnel including, but not limited to, those from Base/Post Civil Facility Engineer user groups, and major commands may also be in attendance. The Contractor shall notify the Contracting Officer at least 14 days prior to the proposed final acceptance inspection and shall include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining work to be performed under the contract, will be complete and acceptable by the date scheduled for the final acceptance inspection. The final acceptance inspection will be formally scheduled by the Contracting Officer based upon results of the Pre-Final inspection. Failure of the Contractor to have all contract work acceptably complete for this inspection will be cause for the Contracting Officer to bill the Contractor for the Government's additional inspection cost in accordance with the contract clause titled "Inspection of Construction".

### 3.9 DOCUMENTATION

The Contractor shall maintain current records providing factual evidence that required quality control activities and/or tests have been performed on each task order. These records shall include the work of subcontractors and suppliers and shall be prepared using government-provided software, QCS (see Section 01312), that includes, as a minimum, the following information:

- a. Contractor/subcontractor and their area of responsibility.
- b. Operating plant/equipment with hours worked, idle, or down for repair.
- c. Work performed each day, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.
- d. Test and/or control activities performed with results and references to specifications/drawings requirements. The control phase should be identified (Preparatory, Initial, Follow-up). List deficiencies noted along with corrective action.
- e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
- f. Submittals reviewed, with contract reference, by whom, and action taken.

- g. Off-site surveillance activities, including actions taken.
- h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
- i. Instructions given/received and conflicts in plans and/or specifications.
- j. Contractor's verification statement.

These records shall indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. These records shall cover both conforming and deficient features and shall include a statement that equipment and materials incorporated in the work and workmanship comply with the contract. Unless otherwise directed by the Contracting Officer the original and one copy of these records in report form shall be furnished to the Government daily within 24 hours after the date covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, one report shall be prepared and submitted for every 7 days of no work and on the last day of a no work period. All calendar days shall be accounted for throughout the life of the contract. The first report following a day of no work shall be for that day only. Reports shall be signed and dated by the CQC System Manager or QCR. The report from the CQC System Manager or QCR shall include copies of test reports and copies of reports prepared by all subordinate quality control personnel.

### 3.10 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

-- End Of Section --

## SECTION 01500

### TEMPORARY CONSTRUCTION FACILITIES

#### 1.1 GENERAL REQUIREMENTS

##### 1.1.1 Site Plan

The Contractor shall prepare a site plan indicating the proposed location and dimensions of any area to be fenced and used by the Contractor, the number of trailers to be used, avenues of ingress/egress to the fenced area and details of the fence installation. Any areas that may have to be graveled to prevent the tracking of mud shall also be identified. The Contractor shall also indicate if the use of a supplemental or other staging area is desired.

##### 1.1.2 Identification of Employees

The Contractor shall be responsible for furnishing to each employee and for requiring each employee engaged on the work to display identification as approved and directed by the Contracting Officer. Prescribed identification shall immediately be delivered to the Contracting Officer for cancellation upon release of any employee. When required, the Contractor shall obtain and provide fingerprints of persons employed on the project. Contractor and subcontractor personnel shall wear identifying markings on hard hats clearly identifying the company for whom the employee works.

##### 1.1.3 Employee Parking

Contractor employees shall park privately owned vehicles in an area designated by the Contracting Officer. This area will be within reasonable walking distance of the construction site. Contractor employee parking shall not interfere with existing and established parking requirements of the military installation.

#### 1.2 AVAILABILITY AND USE OF UTILITY SERVICES

##### 1.2.1 Payment for Utility Services *(covered in Section 00800, S-36.21)*

##### 1.2.2 Meters and Temporary Connections *(covered in Section 00800, S-36.21)*

##### 1.2.3 Sanitation

The Contractor shall provide and maintain within the construction area minimum field-type sanitary facilities approved by the Contracting Officer. Government toilet facilities will not be available to Contractor's personnel.

##### 1.2.4 Telephone

The Contractor shall make arrangements and pay all costs for telephone facilities desired.

#### 1.3 BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN

#### 1.3.1 Bulletin Board

Immediately upon beginning of work, the Contractor shall provide a weatherproof glass-covered bulletin board not less than 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the contract, Wage Rate Information poster, and other information approved by the Contracting Officer. The bulletin board shall be located at the project site in a conspicuous place easily accessible to all employees, as approved by the Contracting Officer. Legible copies of the aforementioned data shall be displayed until work is completed. Upon completion of work the bulletin board shall be removed by and remain the property of the Contractor.

#### 1.3.2 Project and Safety Signs

The requirements for the signs, their content, and location shall be as shown on the task order drawings. The signs shall be erected within 15 days after receipt of the notice to proceed. The data required by the safety sign shall be corrected daily, with light colored metallic or non-metallic numerals. Upon completion of the project, the signs shall be removed from the site.

#### 1.4 PROTECTION AND MAINTENANCE OF TRAFFIC

During construction the Contractor shall provide access and temporary relocated roads as necessary to maintain traffic. The Contractor shall maintain and protect traffic on all affected roads during the construction period except as otherwise specifically directed by the Contracting Officer. Measures for the protection and diversion of traffic, including the provision of watchmen and flagmen, erection of barricades, placing of lights around and in front of equipment and the work, and the erection and maintenance of adequate warning, danger, and direction signs, shall be as required by the State and local authorities having jurisdiction. The traveling public shall be protected from damage to person and property. The Contractor's traffic on roads selected for hauling material to and from the site shall interfere as little as possible with public traffic. The Contractor shall investigate the adequacy of existing roads and the allowable load limit on these roads. The Contractor shall be responsible for the repair of any damage to roads caused by construction operations.

##### 1.4.1 Haul Roads

The Contractor shall, at its own expense, construct access and haul roads necessary for proper prosecution of the work under this contract. Haul roads shall be constructed with suitable grades and widths; sharp curves, blind corners, and dangerous cross traffic shall be avoided. The Contractor shall provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic. The method of dust control, although optional, shall be adequate to ensure safe operation at all times. Location, grade, width, and alignment of construction and hauling roads shall be subject to approval by the Contracting Officer. Lighting shall be adequate to assure full and clear visibility for full width of haul road and work areas during any night work operations. Upon completion of the work, haul roads designated by the Contracting Officer shall be removed.

##### 1.4.2 Barricades

The Contractor shall erect and maintain temporary barricades to limit public access to hazardous areas. Such barricades shall be required whenever safe public access is prevented by construction activities or as otherwise necessary to ensure the safety of both pedestrian and vehicular traffic. Barricades shall be securely placed, clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

## 1.5 CONTRACTOR'S TEMPORARY FACILITIES

### 1.5.1 Administrative Field Offices

Government office and warehouse facilities may not be available to the Contractor's personnel.

### 1.5.2 Storage Area

The Contractor shall construct a temporary 6 foot high chain link fence around trailers and materials. The fence shall include plastic strip inserts, colored brown, so that visibility through the fence is obstructed. Fence posts may be driven, in lieu of concrete bases, where soil conditions permit. Trailers, materials, or equipment shall not be placed or stored outside the fenced area unless such trailers, materials, or equipment are assigned a separate and distinct storage area by the Contracting Officer away from the vicinity of the construction site but within the military boundaries. Trailers, equipment, or materials shall not be open to public view with the exception of those items that are in support of ongoing work on any given day. Materials shall not be stockpiled outside the fence in preparation for the next day's work. At the end of each work day mobile equipment, such as tractors, wheeled lifting equipment, cranes, trucks, and like equipment, shall be parked within the fenced area.

### 1.5.3 Supplemental Storage Area

Upon Contractor's request, the Contracting Officer will designate another or supplemental area for the Contractor's use and storage of trailers, equipment, and materials. This area may not be in close proximity of the construction site but shall be within the military boundaries. Fencing of materials or equipment will not be required at this site; however, the Contractor shall be responsible for cleanliness and orderliness of the area used and for the security of any material or equipment stored in this area.

### 1.5.4 Appearance of Trailers

Trailers utilized by the Contractor for administrative or material storage purposes shall present a clean and neat exterior appearance and shall be in a state of good repair. Trailers that, in the opinion of the Contracting Officer, require exterior painting or maintenance will not be allowed on the military property.

### 1.5.5 Maintenance of Storage Area

Fencing shall be kept in a state of good repair and proper alignment. Should the Contractor elect to traverse with construction equipment or other vehicles grassed or unpaved areas which are not established roadways, such areas shall be covered with a layer of gravel as necessary to prevent rutting and the tracking of mud onto paved or established roadways; gravel

gradation shall be at the Contractor's discretion. Grass located within the boundaries of the construction site shall be mowed for the duration of the project. Grass and vegetation along fences, buildings, under trailers, and in areas not accessible to mowers shall be edged or trimmed neatly.

#### 1.5.6 Security Provisions

The Contractor shall be responsible for the security of its own equipment; in addition,

#### 1.6 TEMPORARY PROJECT SAFETY FENCING

As soon as practicable, but not later than 15 days after the date established for commencement of work, the Contractor shall furnish and erect temporary project safety fencing at the work site. The safety fencing shall be a high visibility orange colored, high density polyethylene grid or approved equal, a minimum of 42 inches high, supported and tightly secured to steel posts located on maximum 10 foot centers, constructed at the approved location. The safety fencing shall be maintained by the Contractor during the life of the task order and, upon completion and acceptance of the work, shall become the property of the Contractor and shall be removed from the work site.

#### 1.7 CLEANUP

Construction debris, waste materials, packaging material and the like shall be removed from the work site daily. Any dirt or mud that is tracked onto paved or surfaced roadways shall be cleaned away. Materials resulting from demolition activities that are salvageable shall be stored within the fenced area described above or at the supplemental storage area. Stored material not in trailers, whether new or salvaged, shall be neatly stacked when stored.

#### 1.8 RESTORATION OF STORAGE AREA

Upon completion of the project and after removal of trailers, materials, and equipment from within the fenced area, the fence shall be removed and will become the property of the Contractor. Areas used by the Contractor for the storage of equipment or material, or other use, shall be restored to the original or better condition. Gravel used to traverse grassed areas shall be removed and the area restored to its original condition, including top soil and seeding as necessary.

\*\*\* End of Section 01500 \*\*\*

SECTION 01780

TASK ORDER CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

As-Built Drawings.

Drawings showing final as-built conditions of the project. The final CADD as-built drawings shall consist of one set of electronic CADD drawing files in the specified format, one set of full-size hard-copy reproducibles, 2 sets of full-size prints from the reproducibles, and one set of the Government accepted working as-built drawings. (CADD as-builts will not be required if the Government does not provide the Contractor with CADD files of the original task order drawings.)

SD-03 Product Data

As-Built Record of Equipment and Materials.

Two copies of the record listing the as-built materials and equipment incorporated into the construction of the project.

Warranty Management Plan.

One set of the warranty management plan containing information relevant to the warranty of materials and equipment incorporated into the construction project, including the starting date of warranty of construction. The Contractor shall furnish with each warranty the name, address, and telephone number of each of the guarantor's representatives nearest to the project location.

Warranty Tags.

Two record copies of the warranty tags showing the layout and design.

Final Clean-Up.

Two copies of the listing of completed final clean-up items.

1.2 PROJECT RECORD DOCUMENTS

1.2.1 As-Built Drawings

This paragraph covers as-built drawings complete, as a requirement of the contract. The terms "drawings," "contract drawings," "drawing files," "working as-built drawings" and "final as-built drawings" refer to contract drawings that are revised to be used for final as-built drawings.

#### 1.2.1.1 Government Furnished Materials

When available, one set of electronic CADD files in the specified software and format will be provided by the Government at the pre-work meeting for task orders requiring CADD file as-built drawings.

#### 1.2.1.2 Working As-Built and Final As-Built Drawings

The Contractor shall maintain 2 sets of paper drawings by red-line process to show the as-built conditions during the prosecution of the project. These working as-built marked drawings shall be kept current on a daily basis and at least one set shall be available on the jobsite at all times. Changes from the task order plans that are made in the work or additional information which might be uncovered in the course of construction shall be accurately and neatly recorded as they occur by means of details and notes. At the final inspection or upon beneficial occupancy of the facility by the user, whichever comes first. The Contractor shall provide one of the two sets of working as-built drawings to the COR for turnover with the facility. This set will serve as an advance/interim working set for the occupant of the completed facility; until such time that the final as-built drawings are furnished to them. The working as-built marked drawings and final as-built drawings will be jointly reviewed for accuracy and completeness by the Contracting Officer and the Contractor prior to submission of each monthly pay estimate. If the Contractor fails to maintain the working and final as-built drawings as specified herein, the Contracting Officer will deduct from the monthly progress payment an amount representing the estimated cost of maintaining the as-built drawings. This monthly deduction will continue until an agreement is reached between the Contracting Officer and the Contractor regarding the accuracy and completeness of updated drawings. The working and final as-built drawings shall show, but shall not be limited to, the following information:

a. The actual location, kinds and sizes of all sub-surface utility lines. In order that the location of these lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, the as-built drawings shall show, by offset dimensions to two permanently fixed surface features, the end of each run including each change in direction. Valves, splice boxes and similar appurtenances shall be located by dimensioning along the utility run from a reference point. The average depth below the surface of each run shall also be recorded.

b. The location and dimensions of any changes within the building structure.

c. Correct grade, elevations, cross section, or alignment of roads, earthwork, structures or utilities if any changes were made from contract plans.

d. Changes in details of design or additional information obtained from working drawings specified to be prepared and/or furnished by the Contractor; including but not limited to fabrication, erection, installation

plans and placing details, pipe sizes, insulation material, dimensions of equipment foundations, etc.

e. The topography, invert elevations and grades of drainage installed or affected as part of the project construction.

f. Changes or modifications that result from the final inspection.

g. Where contract drawings or specifications present options, only the option selected for construction shall be shown on the final as-built drawings.

h. If borrow material for this project is from sources on Government property, or if Government property is used as a spoil area, the Contractor shall furnish a contour map of the final borrow pit/spoil area elevations.

i. Systems designed or enhanced by the Contractor, such as HVAC controls, fire alarm, fire sprinkler, and irrigation systems.

j. Modifications (change order price shall include the Contractor's cost to change working and final as-built drawings to reflect modifications) and compliance with the following procedures.

(1) Directions in the modification for posting descriptive changes shall be followed.

(2) A Modification Circle shall be placed at the location of each deletion.

(3) For new details or sections which are added to a drawing, a Modification Circle shall be placed by the detail or section title.

(4) For minor changes, a Modification Circle shall be placed by the area changed on the drawing (each location).

(5) For major changes to a drawing, a Modification Circle shall be placed by the title of the affected plan, section, or detail at each location.

(6) For changes to schedules or drawings, a Modification Circle shall be placed either by the schedule heading or by the change in the schedule.

(7) The Modification Circle size shall be 1/2 inch diameter unless the area where the circle is to be placed is crowded. Smaller size circle shall be used for crowded areas.

#### 1.2.1.3 Drawing Preparation

The as-built drawings shall be modified as may be necessary to correctly show the features of the project as it has been constructed by bringing the contract set into agreement with Government accepted working as-built drawings, and adding such additional drawings as may be necessary. These working as-built marked drawings shall be neat, legible and accurate. These drawings are part of the permanent records of this project and shall be returned by the Contractor to the Contracting Officer after final acceptance

by the Government. Any drawings damaged or lost by the Contractor shall be satisfactorily replaced by the Contractor at no expense to the Government.

#### 1.2.1.4 Computer Aided Design and Drafting (CADD) Drawings

Only personnel proficient in the preparation of Microstation CADD drawings shall be employed to modify the task order drawings or prepare additional new drawings. Additions and corrections to the task order drawings shall be equal in quality and detail to that of the originals. Line colors, line weights, lettering, layering conventions, and symbols shall be the same as the original line colors, line weights, lettering, layering conventions, and symbols. If additional drawings are required, they shall be prepared using the specified electronic file format applying the same graphic standards specified for original drawings. The title block and drawing border to be used for any new final as-built drawings shall be identical to that used on the contract drawings. Additions and corrections to the contract drawings shall be accomplished using CADD files. The Contractor will be furnished Microstation CADD files and pen table. The electronic files will be supplied on compact disc, read-only memory (CD-ROM). The Contractor shall be responsible for providing all program files and hardware necessary to prepare final as-built drawings. The Contracting Officer will review final as-built drawings for accuracy and the Contractor shall make required corrections, changes, additions, and deletions.

a. CADD colors shall be the "base" colors of red, green, and blue. Color code for changes shall be as follows:

(1) Deletions (red) - Deleted graphic items (lines) shall be colored red with red lettering in notes and leaders.

(2) Additions (Green) - Added items shall be drawn in green with green lettering in notes and leaders.

(3) Special (Blue) - Items requiring special information, coordination, or special detailing or detailing notes shall be in blue.

b. All changes to the contract drawing files shall be made on the level as the original item. There shall be no deletions of existing lines; existing lines shall be over struck in red. Additions shall be in green with line weights the same as the drawing.

c. When final revisions have been completed, the cover sheet drawing shall show the wording "RECORD DRAWING AS-BUILT" followed by the name of the Contractor in letters at least 3/16 inch high. All other task order drawings shall be marked either "as-built" drawing denoting no revisions on the sheet or "Revised As-Built" denoting one or more revisions. Original task order drawings shall be dated in the revision block.

d. Within 10 days after Government acceptance of all of the working as-built drawings for a task order, the Contractor shall prepare the final CADD as-built drawings for that task order and submit two sets of blue/black-line prints of these drawings for Government review. The Government will promptly return one set of prints annotated with any necessary corrections. Within 10 days the Contractor shall revise the CADD files accordingly at no additional cost and submit one set of final prints. The submittal shall consist of one set of electronic files on compact disc,

read-only memory (CD-ROM), one set of full-size hard-copy reproducibles, two sets of prints and one set of the Government annotated and accepted working as-built drawings. They shall be complete in all details and identical in form and function to the task order drawing files supplied by the Government. Any transactions or adjustments necessary to accomplish this are the responsibility of the Contractor. The Government reserves the right to reject any drawing files it deems incompatible with the customer's CADD system. Paper prints, drawing files and storage media submitted will become the property of the Government upon final acceptance. Failure to submit final as-built drawing files or working as-built marked drawings as specified shall be cause for withholding any payment due the Contractor under this contract. Acceptance of final as-built drawings shall be accomplished before final payment is made to the Contractor.

#### 1.2.1.6 Payment

No separate payment will be made for as-built drawings required under this contract, and all costs accrued in connection with such drawings shall be considered a subsidiary obligation of the Contractor.

#### 1.2.2 As-Built Record of Equipment and Materials

The Contractor shall furnish one copy of the preliminary record of equipment and materials used on the project 15 days prior to final inspection. This preliminary submittal will be reviewed and returned 2 days after final inspection with Government comments. Two sets of the final record of equipment and materials shall be submitted 10 days after final inspection. The designations shall be keyed to the related area depicted on the contract drawings. The record shall list the following data:

##### RECORD OF DESIGNATED EQUIPMENT AND MATERIALS DATA

Description	Specification Section	Manufacturer and Catalog, Model, and Serial Number	Composition and Size	Where Used
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#### 1.2.3 Final Approved Shop Drawings

The Contractor shall furnish final approved project shop drawings 30 days after transfer of the completed facility.

#### 1.2.5 Real Property Equipment

The Contractor shall furnish a list of installed equipment furnished under each task order. The list shall include all information usually listed on manufacturer's name plate. The "EQUIPMENT-IN-PLACE LIST" shall include, as applicable, the following for each piece of equipment installed: description of item, location (by room number), model number, serial number, capacity, name and address of manufacturer, name and address of equipment supplier, condition, spare parts list, manufacturer's catalog, and warranty. A draft list shall be furnished at time of transfer. The final list shall be furnished 30 days after transfer of the completed facility.

### 1.3 WARRANTY MANAGEMENT

### 1.3.1 Warranty Management Plan

The Contractor shall develop a warranty management plan. At least 30 days before the planned pre-warranty conference, the Contractor shall submit the warranty management plan for Government approval. The warranty management plan shall include all required actions and documents to assure that the Government receives all warranties to which it is entitled, in accordance with the Contract Clause, WARRANTY OF CONSTRUCTION. The plan shall be in narrative form and contain sufficient detail to render it suitable for use by future maintenance and repair personnel, whether tradesmen, or of engineering background, not necessarily familiar with this contract. The term "status" as indicated below shall include due date and whether item has been submitted or was accomplished. Warranty information made available during the construction phase shall be submitted to the Contracting Officer for approval prior to each monthly pay estimate. Approved information shall be assembled in a binder and shall be turned over to the Government upon acceptance of the work. The construction warranty period shall begin on the date of project acceptance and shall continue for the full product warranty period. A joint 4 month and 9 month warranty inspection shall be conducted, measured from time of acceptance, by the Contractor, Contracting Officer and the Customer Representative. Information contained in the warranty management plan shall include, but shall not be limited to, the following:

a. Roles and responsibilities of all personnel associated with the warranty process, including points of contact and telephone numbers within the organizations of the Contractors, subcontractors, manufacturers or suppliers involved.

b. Listing and status of delivery of all Certificates of Warranty for extended warranty items, to include roofs, HVAC balancing, pumps, motors, transformers, and for all commissioned systems such as fire protection and alarm systems, sprinkler systems, lightning protection systems, etc.

c. A list for each warranted equipment, item, feature of construction or system indicating:

1. Name of item.
2. Model and serial numbers.
3. Location where installed.
4. Name and phone numbers of manufacturers or suppliers.
5. Names, addresses and telephone numbers of sources of spare parts.
6. Warranties and terms of warranty. This shall include one-year overall warranty of construction. Items that have extended warranties shall be indicated with separate warranty expiration dates.
7. Cross-reference to warranty certificates as applicable.
8. Starting point and duration of warranty period.
9. Summary of maintenance procedures required to continue the warranty in force.
10. Cross-reference to specific pertinent Operation and Maintenance manuals.
11. Organization, names and phone numbers of persons to call for warranty service.
12. Typical response time and repair time expected for various warranted equipment.

d. The Contractor's plans for attendance at the 4 and 9 month post-construction warranty inspections conducted by the Government.

e. Procedure and status of tagging of all equipment covered by extended warranties.

f. Copies of instructions to be posted near selected pieces of equipment where operation is critical for warranty and/or safety reasons.

#### 1.3.2 Performance Bond

The Contractor's Performance Bond shall remain in effect throughout the construction period, and during the life of any guaranty required under the Contract Performance Bond, Standard Form 25.

a. In the event the Contractor fails to commence and diligently pursue any construction warranty work required, the Contracting Officer will have the work performed by others. After completion of the construction warranty work, charges will be made to the remaining construction warranty funds of expenses which the Government incurred while performing the work, including, but not limited to administrative expenses.

b. In the event sufficient funds are not available to cover the construction warranty work performed by the Government, at the Contractor's expense, the Contracting Officer will have the right to recoup expenses from the bonding company.

c. Following oral or written notification of required construction warranty repair work, the Contractor shall respond in a timely manner. Written verification will follow oral instructions. Failure of the Contractor to respond will be cause for the Contracting Officer to proceed against the Contractor.

#### 1.3.3 Pre-Warranty Conference

Prior to task order completion, and at a time designated by the Contracting Officer, the Contractor shall meet with the Contracting Officer to develop a mutual understanding with respect to the requirements of this section. Communication procedures for Contractor notification of construction warranty defects, priorities with respect to the type of defect, reasonable time required for Contractor response, and other details deemed necessary by the Contracting Officer for the execution of the construction warranty shall be established/reviewed at this meeting. In connection with these requirements and at the time of the Contractor's quality control completion inspection, the Contractor shall furnish the name, telephone number and address of a licensed and bonded company that is authorized to initiate and pursue construction warranty work action on behalf of the Contractor. This point of contact will be located within the local service area of the warranted construction, shall be continuously available, and shall be responsive to Government inquiry on warranty work action and status. This requirement does not relieve the Contractor of any of its responsibilities in connection with other portions of this provision.

#### 1.3.4 Contractor's Response to Construction Warranty Service Requirements

Following oral or written notification by the Contracting Officer, the Contractor shall respond to construction warranty service requirements in

accordance with the "Construction Warranty Service Priority List" and the three categories of priorities listed below. The Contractor shall submit a report on any warranty item that has been repaired during the warranty period. The report shall include the cause of the problem, date reported, corrective action taken, and when the repair was completed. If the Contractor does not perform the construction warranty within the timeframes specified, the Government will perform the work and back charge the construction warranty payment item established.

a. First Priority Code 1. Perform onsite inspection to evaluate situation, and determine course of action within 4 hours, initiate work within 6 hours and work continuously to completion or relief.

b. Second Priority Code 2. Perform onsite inspection to evaluate situation, and determine course of action within 8 hours, initiate work within 24 hours and work continuously to completion or relief.

c. Third Priority Code 3. All other work to be initiated within 3 work days and work continuously to completion or relief.

d. The "Construction Warranty Service Priority List" is as follows:

Code 1-Air Conditioning Systems(1) Recreational support.  
(2) Air conditioning leak in part of building, if causing damage.  
(3) Air conditioning system not cooling properly.

Code 1-Doors(1) Overhead doors not operational, causing a security, fire, or safety problem.  
(2) Interior, exterior personnel doors or hardware, not functioning properly, causing a security, fire, or safety problem.

Code 3-Doors(1) Overhead doors not operational.  
(2) Interior/exterior personnel doors or hardware not functioning properly.

Code 1-Electrical(1) Power failure (entire area or any building operational after 1600 hours).  
(2) Security lights  
(3) Smoke detectors

Code 2-Electrical(1) Power failure (no power to a room or part of building).  
(2) Receptacle and lights (in a room or part of building).

Code 3-ElectricalStreet lights.

Code 1-Gas(1) Leaks and breaks.  
(2) No gas to family housing unit or cantonment area.

Code 1-Heat(1) Area power failure affecting heat.  
(2) Heater in unit not working.

Code 2-Kitchen Equipment(1) Dishwasher not operating properly.  
(2) All other equipment hampering preparation of a meal.

Code 1-Plumbing(1) Hot water heater failure.  
(2) Leaking water supply pipes.

Code 2-Plumbing(1) Flush valves not operating properly.  
(2) Fixture drain, supply line to commode, or any water pipe leaking.  
(3) Commode leaking at base.

Code 3 -Plumbing/Leaky faucets.

Code 3-Interior(1) Floors damaged.  
(2) Paint chipping or peeling.  
(3) Casework.

Code 1-Roof Leaks Temporary repairs will be made where major damage to property is occurring.

Code 2-Roof Leaks Where major damage to property is not occurring, check for location of leak during rain and complete repairs on a Code 2 basis.

Code 2-Water (Exterior)No water to facility.

Code 2-Water (Hot)No hot water in portion of building listed.

Code 3-All other work not listed above.

#### 1.3.5 Warranty Tags

At the time of installation, each warranted item shall be tagged with a durable, oil and water resistant tag approved by the Contracting Officer. Each tag shall be attached with a copper wire and shall be sprayed with a silicone waterproof coating. The date of acceptance and the QC signature shall remain blank until project is accepted for beneficial occupancy. The tag shall show the following information.

- a. Type of product/material\_\_\_\_\_.
- b. Model number\_\_\_\_\_.
- c. Serial number\_\_\_\_\_.
- d. Contract number\_\_\_\_\_.
- e. Warranty period\_\_\_\_\_ from\_\_\_\_\_ to\_\_\_\_\_.
- f. Inspector's signature\_\_\_\_\_.
- g. Construction Contractor\_\_\_\_\_.
- Address\_\_\_\_\_.
- Telephone number\_\_\_\_\_.
- h. Warranty contact\_\_\_\_\_.
- Address\_\_\_\_\_.
- Telephone number\_\_\_\_\_.

i. Warranty response time priority code\_\_\_\_\_.

j. WARNING - PROJECT PERSONNEL TO PERFORM ONLY OPERATIONAL MAINTENANCE DURING THE WARRANTY PERIOD.

#### 1.4 MECHANICAL TESTING, ADJUSTING, BALANCING, AND COMMISSIONING

Prior to final inspection and transfer of the completed facility; all reports, statements, certificates, and completed checklists for testing, adjusting, balancing, and commissioning of mechanical systems shall be submitted to and approved by the Contracting Officer as specified in applicable technical specification sections.

#### 1.5 OPERATION AND MAINTENANCE MANUALS

Operating and Maintenance (O&M) manuals shall be provided as required in the applicable sections of the technical specifications. O&M manuals shall be submitted for review and acceptance a minimum of 30 calendar days prior to any required training. O&M manuals must be approved prior to scheduling required training.

At least one copy of the submitted O&M manuals shall contain original, color catalog cuts, instructions or other required contents. The manuals shall be assembled in an appropriately sized 3-ring binder, clearly labeled on the front cover and spine with the contract and task order name and number and the applicable system/equipment. The contents of the manual shall be tabbed and a Table of Contents provided. All pages shall be numbered.

#### 1.6 FINAL CLEANING

The premises shall be left broom clean. Stains, foreign substances, and temporary labels shall be removed from surfaces. Carpet and soft surfaces shall be vacuumed. Equipment and fixtures shall be cleaned to a sanitary condition. Filters of operating equipment shall be cleaned. Debris shall be removed from roofs, drainage systems, gutters, and downspouts. Paved areas shall be swept and landscaped areas shall be raked clean. The site shall have waste, surplus materials, and rubbish removed. The project area shall have temporary structures, barricades, project signs, and construction facilities removed. A list of completed clean-up items shall be submitted on the day of final inspection.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

-- End Of Section --

SECTION 01900

MISCELLANEOUS PROVISIONS

1 GENERAL

The provisions of this section shall apply to each task order, as applicable. Additional special provisions for each task order will be provided, as required, with the task order.

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

CORPS OF ENGINEERS

EM 385-1-1 US Army Corps of Engineers Safety and Health Requirements Manual

Tripler Army Medical Center (TAMC) Regulations

TAMC Reg 40-34 Management and Disposal of Regulated Medical Waste

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Pre Construction Submittals

Progress Chart; G.

Progress Charts may be used on task orders valued at less than \$100,000 and with durations less than 4 months. Construction schedules for Task Orders that exceed these criteria shall be prepared using a network analysis system as described in Section 01320.

The Contractor shall prepare and submit for approval by the Contracting Officer a progress chart in accordance with the CONTRACT CLAUSE entitled "SCHEDULE FOR CONSTRUCTION CONTRACTS" 7 calendar days prior to initiation of any work on a task order. Any material change to the progress chart must be approved in writing in advance by the Contracting Officer. Any proposed changes to the approved schedule shall be requested by the Contractor in writing a minimum of fourteen (14) calendar days prior to the proposed change.

Accident Prevention Plan; G.

Site-Specific Safety and Health Plan (SSHP); G.

SD-02 Shop Drawings

As-Built Drawings.

SD-06 Test Reports

Inspection of Existing Conditions.

A written report with color photographs noting the condition of the existing facilities at the time of the inspection. One copy of the report including photographs shall be submitted to the Contracting Officer, prior to construction.

SD-06 Test Records

Dust Control; G.

Method(s) of dust control.

Excavation/Trenching Clearance.

Prior to start of any excavation or trenching work, the Contractor shall obtain clearance, in writing, from the appropriate communications agency and base or area engineer. Copies of all correspondence shall be provided the Contracting Officer. Normal coordination time for obtaining the necessary permits is approximately fifteen (15) calendar days. The Contractor shall advise the Contracting Officer promptly when it appears that the normal coordination time will be exceeded.

Condition of Contractor's Operation or Storage Area.

The Contractor shall submit to the Contracting Officer photographs and/or videos depicting the condition of the Contractor's Operation or Storage Area.

1.3 CONTRACTOR QUALITY CONTROL

To assure compliance with contract requirements, the Contractor shall establish and maintain quality control for materials and work covered by all sections of the TECHNICAL REQUIREMENTS in accordance with Section 01451 CONTRACTOR QUALITY CONTROL. Records shall be maintained for all operations, including sampling and testing.

1.4 SAFETY

1.4.1 General

Site activities performed in conjunction with this contract may pose safety hazards that require specialized expertise to effectively address and eliminate. The Contractor shall be responsible for preparing and implementing an effective safety and health program throughout the entire duration of the contract, including any option period(s).

1.4.2 Accident Prevention Plan (APP)

The contractor shall prepare an Accident Prevention Plan in accordance with the provisions of FAR 52.236-13 (Section 00700) and Section 00800,

paragraph S-36.18. The Accident Prevention Plan shall address the contractor's overall safety program for the entire contract. The APP shall consist of the forms and documents listed in Section 00800, S36.18, ACCIDENT PREVENTION PLAN, covering the overall safety considerations for the contract as a whole.

#### 1.4.3 Site-Specific Safety and Health Plan (SSHP)

Upon issuance of each task order, the contractor shall prepare a site-specific safety and health plan addressing the safety aspects specific to the work ordered. Work on task orders shall not commence prior to receiving the Contracting Officer's written acceptance of both the contract Accident Prevention Plan and the site-specific safety and health plan.

The SSHP shall be prepared in accordance with the requirements specified in this section and shall comply with all federal, state, and local health and safety requirements, e.g., the Occupational Safety and Health Administration (OSHA) requirements (29 CFR 1910 and 1926) and the U.S. Army Corps of Engineers Safety and Health Requirements Manual (EM 385-1-1). The SSHP shall address those elements that are specific to the task order site that have potential for negative effects on the safety and health of workers, the public, and other personnel on site.

An Activity Hazard Analysis (AHA), POD Form 184-R, rev 16 Oct 98, shall be submitted for all phases of construction specific to the task order and worksite. Work on a construction phase cannot begin until the AHA is submitted and accepted.

The SSHP shall identify the individual responsible for jobsite safety. This individual shall be present at the jobsite at all times during construction. Copies of the accepted SSHP and Accident Prevention Plan shall be available at the jobsite at all times. The location of these plans shall be known to all workers. All workers shall receive a safety briefing covering applicable sections of these plans prior to the start of construction.

Daily safety and health inspections shall be conducted to determine if site operations are conducted in accordance with the accepted SSHP and contract requirements. Results and observations made during these inspections shall be noted in the contractor's daily report.

#### 1.5 AS-BUILT DRAWINGS

As-built drawings shall be in accordance with Section 01780, CLOSEOUT SUBMITTALS.

#### 1.6 DUST CONTROL

When Section 02220, Demolition, is included in the task order, dust control shall be in accordance with Section 02220 DEMOLITION. Otherwise, the following shall apply: The amount of dust resulting from the Contractor's work shall be controlled to prevent the spread of dust to occupied portions of the construction site and to avoid creation of a nuisance in the surrounding area. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions such as flooding and pollution. Measures shall also be taken for dust control along haul routes and equipment parking areas.

## 1.7 PROTECTION

The Contractor shall take all necessary precautions to ensure that no damages to private or public property will result from his operations. Any such damages shall be repaired or property replaced by the Contractor in accordance with the CONTRACT CLAUSES entitled "PERMITS AND RESPONSIBILITIES" and "PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS", without delay, and at no cost to the Government.

### 1.7.1 Warning Signs and Barricades

The Contractor shall be responsible for posting warning signs or erecting temporary barricades to provide for safe conduct of work and protection of property.

### 1.7.2 Protection of Grassed and Landscaped Areas

The Contractor's vehicles shall be restricted to paved roadways and driveways. Vehicles shall not be driven or parked on grassed and/or landscaped areas except when absolutely necessary for the performance of the work and approved in advance by the Contracting Officer. Grassed or landscaped areas damaged by the Contractor shall be restored to their original condition without delay and at no cost to the Government.

### 1.7.3 Protection of Trees and Plants

Where necessary, tree branches and plants interfering with the work may be temporarily tied back by the Contractor to permit accomplishment of the work in a convenient manner, so long as they will not be permanently damaged thereby. If this is not feasible, they may be pruned, subject to written approval by the Contracting Officer.

### 1.7.4 Protection of Building From the Weather

The interior of the building and all materials and equipment shall be protected from the weather at all times.

## 1.8 RESTORATION WORK

Existing conditions or areas damaged or disturbed by the Contractor's operations shall be restored to their original condition, or near original condition as possible, to the satisfaction of the Contracting Officer.

## 1.9 REMOVAL AND DISPOSAL

When Section 02220, Demolition, is included in the task order, removal and disposal shall be in accordance with Section 02220 DEMOLITION. Otherwise, the following shall apply: The Contractor shall salvage or recycle waste to the maximum extent practical as it relates to the capabilities of local industries. A record of the quantity of salvaged or recycled materials shall be maintained by the Contractor during the length of the project and submitted to the Contracting Officer at acceptance of the project. Quantities shall be recorded in the unit of measure of the industry. Reuse of materials on the site shall be considered a form of recycling. An example of such reuse would be the use of acceptable excavated materials as fill.

### 1.9.1 Title to Materials

Title to all materials and equipment to be removed, except as indicated or specified otherwise, is vested in the Contractor upon receipt of notice to proceed. The Government will not be responsible for the condition, loss or damage to such property after the Contractor's receipt of notice to proceed. Items indicated to be removed shall be removed and disposed of by the Contractor as indicated outside the limits of Government-controlled property at the Contractor's responsibility and expense before the completion and final acceptance of the work, and such materials shall not be sold on the site.

### 1.9.2 Rubbish and Debris

Rubbish and debris shall be removed from Government-controlled property daily unless otherwise directed, so as not to allow accumulation inside or outside the building. Materials that cannot be removed daily shall be stored in areas designated by the Contracting Officer.

## 1.10 INTERFERENCE WITH GOVERNMENT OPERATIONS

The Contractor shall establish work procedures and methods to prevent interference with existing operations within or adjacent to the construction area. Free passage into adjoining or adjacent buildings not in the contract will not be permitted except as approved by the Contracting Officer. Procedures and methods shall also provide for safe conduct of work and protection of property that is to remain undisturbed.

### 1.10.1 Coordination

The Contractor shall coordinate all work with the Contracting Officer to minimize interruption and inconvenience to the occupants or to the Government. Scheduling and programming of work will be established during the pre-construction conference.

### 1.10.2 Materials and Equipment

All materials and equipment required to complete the project shall be on hand before work is started.

### 1.10.3 Utilities and Facilities

All utilities and facilities within the construction area shall remain operable and shall not be affected by the Contractor's work, unless otherwise approved in writing in advance by the Contracting Officer.

### 1.10.4 Staking and Flagging Existing Utilities

The Contractor, prior to start of any excavation or trenching work, shall verify the location of all utility lines shown on the drawings which are within the areas of work, and shall mark, stake, or flag each utility line along trench alignments and under areas of excavation under this project, as approved. Utility lines so located shall be noted on the drawings.

## 1.11 CONTRACTOR'S OPERATIONS OR STORAGE AREA

Contractor's operations or storage areas shall be in accordance with Section 01500, TEMPORARY CONSTRUCTION FACILITIES.

## 1.12 INSPECTION

### 1.12.1 Final Inspection and Acceptance

The Contractor shall comply with the procedures for Completion Inspections outlined in Section 01451, Contractor Quality Control.

## PART 2 PRODUCTS (NOT APPLICABLE)

## PART 3 EXECUTION

### 3.1 General Notes

The following notes shall apply to all task orders issued on this contract:

- a) The Contractor shall verify all conditions and dimensions relating to the project/task order before commencing with the work.
- b) The Contractor shall promptly notify the Contracting Officer of any discrepancies and/or conditions that prevent him from fulfilling the terms of the contract.
- c) The Contractor shall patch and paint all surfaces that have been exposed from cutting and/or removal. Painting shall match the color and finish of the adjacent surfaces.
- d) All items and materials to be removed shall be done in such a manner as to prevent damages to items and materials that remain. All such damages shall be satisfactorily repaired at no extra cost to the Government.
- e) All waste materials shall be promptly removed and disposed of outside the limits of the Government property.
- f) The word "Replace" means that the Contractor shall remove existing work and provide new work as detailed or noted on the drawing.
- g) All work shown shall be "New" work unless indicated as "Existing" ("Exst"). All items shown in solid lines shall be considered "New" work. All items shown in dotted lines shall be considered "Existing" ("Exst").
- h) The Contractor shall have on hand all equipment and materials prior to starting the project/task order.
- i) The Contractor shall coordinate all activities with the Contracting Officer or his representative during construction. The Contractor shall submit at the beginning of the project/task order, an overall work schedule and shall provide fourteen (14) days written advance notice prior to beginning work in any area.
- j) All outage requests shall be made in writing to the Contracting Officer and Facilities Management Branch at least 14 days in advance of the

planned outage. The Contractor shall not assume that a requested outage is approved without written confirmation from the Contracting Officer.

- k) All new materials shall be asbestos free. If any new material from this project/task order is later identified as asbestos-containing material (ACM), the Contractor shall be liable for all costs associated with the asbestos identification, asbestos abatement, and replacement of the material. Exceptions are subject to approval by the Contracting Officer.
- l) The Contractor shall store all flammable materials in accordance with the US Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, latest edition, Section 9. Flammables shall not be stored on site unless stored in an approved flammable storage locker per NFPA and 29 CFR 1910.
- m) The Contractor shall have on hand all material safety data sheets (MSDS) prior to the start of work. At least two (2) copies shall be furnished to the Contractor Officer.
- n) The Contractor shall ensure that with respect to any design, construction, goods, or services under this contract, as well as any subsequent task order issued under this contract, all information technology contained therein shall be Year 2000 compliant.
- o) Hours of work, phasing, and contractor access to the work area shall be coordinated with Facility Management Branch for each task order. The Contractor shall expect to work other than normal working hours (1600-0800) on weekdays, and on weekends in order to minimize disturbance to hospital operations, staff, and patients.
- p) Exposed conduits shall be painted to match the color and finish of adjacent surfaces.
- q) The Contractor shall visit the site and is responsible to note all the existing wall types, ceiling types and expansion joints in his planned routing of any new electrical raceways prior to submitting his proposal. Coring and drilling through concrete or CMU walls or floors shall be done during weekends or other non-duty hours, as approved, to avoid disturbing the staff or patients. All costs to do electrical work in various types of ceilings, crossing expansion joints, and coring and drilling through existing concrete or CMU walls shall be included in the price of the proposal.

### 3.2 Safety Notes

The following notes shall apply to all task orders issued on this contract:

- a) Openings in smoke/fire walls, floors, ceilings, and partitions for the passage of conduit, piping, cables, etc. are required to have fire-resisting and smoke-resisting capability in accordance with NFPA 101, Chapter 6.
- b) The Contractor shall provide a minimum of 14 calendar days notice to Facilities Management Branch and the Tripler Safety Office prior to working on or disconnecting any sprinkler or fire alarm system, or other fire protection system.

- c) The Contractor shall obtain a hot work permit from the Federal Fire Department prior to all hot work, including tar kettles and torch applications.
- d) Fire detection, alarm and extinguishing systems (smoke detectors, fire dampers, alarm devices, sprinklers, fire extinguishers, pull stations, etc.) shall not be relocated, removed, or connected without prior written approval from the Tripler Safety Office.
- e) Smoke detectors, heat detectors, and sprinklers shall not be covered or bagged by contractors. Facilities Management Branch shall be notified for proper disconnection of detectors when needed.
- f) The Contractor shall submit a dust control barrier plan prior to construction. Dust control barriers shall be non-combustible. (Exception: Fire retardant plastic sheeting may be used in limited applications with the prior written consent of the Tripler Safety Office.)
- g) The Federal Fire Department and Tripler Safety Office must be notified and a fire watch provided whenever an active fire alarm, automatic sprinkler system, or fire protection system will be out of service for more than four (4) hours in a 24-hour period, or as required by the authority having jurisdiction (AHJ).
- h) Flammables shall not be stored on site unless in an approved flammable storage locker per NFPA and 29 CFR 1910.
- i) In case of an actual fire alarm activation or fire drill, contractors are required as a minimum to clear corridors of equipment and proceed to the nearest exit until the all clear is given.
- j) Holes and penetrations must be fire stopped as the holes and penetrations are made. Fabricated openings shall be fire stopped on a daily basis and shall not be left without fire stopping until the end of the project/task order, etc. Fire stop material must be installed in accordance with the manufacturer's specifications.
- k) The fire alarm/extinguisher system shall be restored to full operation upon completion of the workday or during the extended breaks and on days when work will not be performed, i.e. weekends, holidays, and evenings.
- l) When written approval is granted to disconnect, remove, tamper with, or restore operations to the fire alarm/extinguisher system, prior notice shall be given to the Tripler Safety Manager, hospital information desk, Facility Management Branch and Federal Fire Department.
- m) Tripler's emergency power and emergency electrical receptacles (color coded yellow) shall not be used by the Contractor at any time, for any reason.
- n) Visitors and staff shall be protected from the vapors and any harmful health effects of the products being used and/or removed.
- o) Doors shall not be wedged or held open with holding devices.

- p) The Tripler Safety Manager and his designee are authorized to intervene whenever conditions exist that pose an immediate threat to life or health, or pose a threat of damage to equipment or buildings.
- q) Smoking is not allowed inside Tripler. However, if approved by the facility manager, a smoking area may be designated a minimum of 50 feet away from the facility and all material storage areas.

### 3.3 Notes on Concrete Cores thru Floor

The following notes shall apply to all task orders issued on this contract:

- a) From the top of the slab, locate electrical conduits and reinforcing using non-destructive testing (NDT) method (magnetic imaging).
- b) Drill pilot hole. Stop drilling if rebar or strand is hit. Note: Drill operator will know when rebar or strand is hit. The drill bit is likely to be damaged if it hits a prestressing strand but the strand will not suffer significant damage. However, the drill could go thru and damage a rebar.
- c) Drill another pilot hole that clears the rebar and strand.
- d) From the underside of the slab, locate prestressing strands and reinforcing around the pilot hole using NDT method. Adjust the final location of the hole based on clearance between the pilot holes and strand.
- e) Drill or core the hole required.

\*\*\* End of Section 01900 \*\*\*