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SECTION 01320
PROJECT SCHEDULE

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-07 Schedules

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

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

SD-08 Statements

Qualifications; GA.

Documentation showing qualifications of personnel preparing schedule reports.

SD-09 Reports

Narrative Report. FIO
Schedule Reports. FIO

Two copies of the reports showing numbers, descriptions, dates, float, starts, finishes, durations, sequences, etc., as required.

1.2 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. 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 approved 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 approved 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 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. Manual methods used to produce any required information shall require approval by the Contracting Officer.

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 Bid Item

All activities shall be identified in the project schedule by the Bid Item to which the activity belongs. An activity shall not contain work in more than one bid item. The bid 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: a "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: a "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.

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 approval 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 approved 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 approval 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 judgement 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.

3.5 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

One data disk or one set of data disks containing the project schedule shall be provided. Data on the disks shall be in the P3 format or other format which conforms to the format specified in the attached 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 Approved Changes Verification

Only project schedule changes that have been previously approved 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, approved 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 or "I-NODE" AND "J-NODE" 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 which 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 or "i-node" and "j-node", 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 and on monthly schedule update submissions. 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.

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 category of work, work area and/or responsibility.

3.5.5.5 S-Curves

Earnings curves showing projected early and late earnings and earnings to date.

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 approve 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 approved 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 which 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, 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 contract 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 approvals.

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 contract 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 contract completion date.

3.7.2 Submission Requirements

The Contractor shall submit a justification for each request for a change in the contract 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 approved 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 --

STANDARD DATA EXCHANGE FORMAT SPECIFICATION

PART 1- GENERAL

1. Application of This Provision: The Standard Data Exchange Format (SDEF) provides a non-proprietary protocol to exchange project planning and progress data between scheduling systems.

2. File Type and Format: The data file shall consist of a 132 character, freed format, "ASCII" file. Text shall be left-justified and numbers shall be right-justified in each field. Data records must conform, exactly, to the sequence, column position, maximum length, mandatory values, and field definitions described below to comply with the SDEF. Unless specifically stated, all numbers shall be whole numbers. Fields containing numbers shall not be zero filled. All data columns shall be separated by a single blank column. The file shall not contain blank lines.

3. Usage Notes: Where appropriate, notes regarding proper usage of systems to support the SDEF have been included in brackets ([]). These notes are included to assist users in creating SDEF-compatible files, given the variety of software systems that support the SDEF.

4. Recommended Systems: Several systems have been tested to determine the accuracy of importing and exporting SDEF files. For information on the current list of recommended systems, please contact Mr. Stan Green at HQUSACE, (202) 761-0206. Although the currently listed system have been tested other systems may also be acceptable provided those systems correctly import and export SDEF files.

5. SDEF Checker Program: A program that checks whether a file meets the SDEF is available free of charge. A copy of this program may be obtained by written request to: U.S. Army Corps of Engineers, ATTN: Mr. Bill East (CECER-FFA), P.O. Box 9005, Champaign, IL 61826-90005. A description of the SDEF Checker is also available on the Internet and CivilNet.

PART 2- SDEF SPECIFICATION

6. SDEF Organization: The SDEF shall consist of the following records provided in the exact sequence shown below:

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Paragraph Record

<u>Reference</u>	<u>Description</u>	<u>Remarks</u>
6.a	Volume Record	Mandatory First Line of File
6.b	Project Record	Mandatory Second Line of File
6.c	Calendar Record(s)	Mandatory One Record Minimum
6.d	Holiday Record(s)	Mandatory if Holidays Used
6.e	Activity Record(s)	Mandatory Records
6.f	Precedence Record(s)	Mandatory for Precedence
6.g	Unit Cost Record(s)	Mandatory for Unit Costs
6.h	Progress Record(s)	Mandatory Records
6.i	File End Record	Mandatory Last Line of Disk/File

6.a. Volume Record: The Volume Record shall be used to control the transfer of data that may not fit on a single disk. The first line in every file used to store SDEF data shall be the Volume Record. The Volume Record shall sequentially identify the number of the data transfer disk(s). The Volume Record shall have the following format:

<u>Description</u>	<u>Column Position</u>	<u>Max. Len.</u>	<u>Req. Value</u>	<u>Type</u>	<u>Notes</u>
RECORD IDENTIFIER	1 - 4	4	VOLM	Fixed	Filled
DISK NUMBER	6 - 7	2	√	Number	Right Justified

6.a.(1) The RECORD IDENTIFIER is the first four characters of this record. The required value for this field shall be "VOLM". The VOLM record must appear on the first line of the SDEF data file.

6.a.(2) The DISK NUMBER field shall identify the number of the data disk used to store the data exchange information. If all data may be contained on a single disk, this field shall contain the value of "1". If more disks are required, then the second disk shall contain the value "2", the third disk shall be designated with a "3", and so on. Identification of the last data disk is accomplished in the Reject End Record.

6.b. Project Record: The Project Identifier Record shall contain general project information. Because more than one SDEF file may be required for data transfer between large projects, the PROJ record shall be the second line of the first SDEF file transferred. The PROJ record shall contain information in the following format:

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<u>Description</u>	<u>Column Position</u>	<u>Max. Len.</u>	<u>Req. Value</u>	<u>Type</u>	<u>Notes</u>
RECORD IDENTIFIER	1- 4	4	PROJ	Fixed	Filled
DATA DATE	6- 12	7	√	ddmmyy	Filled
PROJECT IDENTIFIER	14- 17	4	√	Alpha.	Left Justified
PROJECT NAME	19-66	48	√	Alpha.	Left Justified
CONTRACTOR NAME	68-103	36	√	Alpha.	Left Justified
ARROW OR PRECEDENCE	105-105	1	A,P	Fixed	Filled
CONTRACT NUMBER	107-112	6	√	Alpha.	Left Justified
PROJECT START	114-120	7	√	ddmmyy	Filled
PROJECT END	122-128	7	√	ddmmyy	Filled

6.b.(1) The RECORD IDENTIFIER is the first four characters of this record. The required value for this field shall be "PROJ". This record shall contain the general project information and indicates which scheduling method shall be used.

6.b.(2) The DATA DATE is the date of the schedule calculation. The abbreviation "ddmmyy" refers to a date format that shall translate a date into two numbers for the day, three letters for the month, and two numbers for the year. For example, March 1, 1999 shall be translated into 01Mar99. This same convention for date formats shall be used throughout the entire data format. To ensure that dates are translated consistently, the following abbreviations shall be used for the three character month code:

Abbreviation Month

JAN	January
FEB	February
MAR	March
APR	April
MAY	May
JUN	June
JUL	July
AUG	August
SEP	September
OCT	October
NOV	November
DEC	December

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6.b.(3) The PROJECT IDENTIFIER is a maximum four character abbreviation for the schedule. These four characters shall be used to uniquely identify the project and specific update as agreed upon by Contractor and Contracting Officer. When utilizing scheduling software these four characters shall be used to select the project. Software manufacturers shall provide information to users to ensure that data importing programs do not automatically overwrite other schedules with the same PROJECT IDENTIFIER.

6.b.(4) The PROJECT NAME field shall contain the name and location of the project edited to fit the space provided. The data appearing here shall appear on scheduling software reports. The abbreviation "Alpha." refers to an "Alphanumeric" field value and shall be used throughout the remainder of this specification.

6.b.(5) The CONTRACTOR NAME field shall contain the Construction Contractor's name, edited to fit the space provided.

6.b.(6) The ARROW OR PRECEDENCE field shall indicate which method shall be used for calculation of the schedule. The value "A" shall signify the Arrow Diagramming Method. The value "P" shall signify the Precedence Diagramming Method. The ACTIVITY ID field of the Activity Record shall be interpreted differently depending on the value of this field. The Precedence Record shall be required if the value of this field is "P". [Usage note: software systems may not support both arrow and precedence diagramming. It is recommended that the selection of the type of network be based on the capabilities of the software used by project partners.]

6.b.(7) The CONTRACT NUMBER field shall contain the contract number for the project. For example, the construction contract number DACA85-89-C-0001 shall be entered into this field as "890001".

6.b.(8) The PROJECT START field shall contain the date that the Contractor acknowledges the Notice to Proceed (NTP). [Usage note: Software systems may use a project start date to constrain the first activity of a network. To ensure consistent scheduling calculations across products, it is recommended that the first activity in the schedule contain an EARLY START constraint and a software system's PROJECT START date only be used to report on the project's start date.]

6.b.(9) The PROJECT END field shall contain the date that the Contractor plans to complete the work as approved by the Contracting Officer. [Usage note: software systems may use a project end date to constrain the last activity of a network. To ensure consistent scheduling calculations across products, it is recommended that the last activity in the schedule contain an EARLY START constraint and a software system's PROJECT END date only be used to report on the project's end date.]

6.c. Calendar Record: The Calendar Record(s) shall follow the Project Identifier Record in the first disk of data transferred. A minimum of one Calendar Record shall be required for all data exchange activity files. The format for the Calendar Record shall be as follows:

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<u>Description</u>	<u>Column Position</u>	<u>Max. Len.</u>	<u>Req. Value</u>	<u>Type</u>	<u>Notes</u>
RECORD IDENTIFIER	1 - 4	4	CLDR	Fixed	Filled
CALENDAR CODE	6 - 6	1	√	Alpha.	Filled
WORKDAYS	8 - 14	7	SMTWTFS	Fixed	Filled
CALENDAR DESCRIPTION	16-45	30	√	Alpha.	Left Justified

6.c.(1) The RECORD IDENTIFIER shall always begin with "CLDR" to identify it as a Calendar Record. Each Calendar Record used shall have this identification in the first four columns. [Usage note: Systems contain a variety of calendar options. It is recommended that the least common denominator of calendar features between the systems be used as the basis for creating the SDEF file for a given project.]

6.c.(2) The CALENDAR CODE shall be used in the activity records to signify that this calendar is associated with the activity. [Usage note: Some systems do not allow for alphanumeric CALENDAR CODES, but only allow positive integers from 1 to 9. It is recommended that only positive integers be used for the CALENDAR CODE field to support the widest variety of scheduling systems.]

6.c.(3) The WORKDAYS field shall contain the work-week pattern selected with "Y", for Yes, and "N", for No. The first character shall be Sunday and the last character Saturday. An example of a typical five (5) day work-week would be NYYYYYN. A seven (7) day work-week would be YYYYYYY.

6.c.(4) The CALENDAR DESCRIPTION shall be used to briefly describe the calendar used.

6.d. Holiday Record: The Holiday Record(s) shall follow the Calendar Record(s) in the first disk of data transferred. There may be calendars without any holidays designated or several Holiday Records for each Calendar Record(s). The format for the Holiday Record shall be as follows:

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<u>Description</u>	<u>Column Position</u>	<u>Max. Len.</u>	<u>Req. Value</u>	<u>Type</u>	<u>Notes</u>
RECORD IDENTIFIER	1-4	4	HOLI	Fixed	Filled
CALENDAR CODE	6-6	1	√	Alpha.	Filled
HOLIDAY DATE	8-14	7	√	ddmmyy	Filled
HOLIDAY DATE	16-22	7	-	ddmmyy	May be Filled
HOLIDAY DATE	24-30	7	-	ddmmyy	May be Filled
HOLIDAY DATE	32-38	7	-	ddmmyy	May be Filled
HOLIDAY DATE	40-46	7	-	ddmmyy	May be Filled
HOLIDAY DATE	48-54	7	-	ddmmyy	May be Filled
HOLIDAY DATE	56-62	7	-	ddmmyy	May be Filled
HOLIDAY DATE	64-70	7	-	ddmmyy	May be Filled
HOLIDAY DATE	72-78	7	-	ddmmyy	May be Filled
HOLIDAY DATE	80-86	7	-	ddmmyy	May be Filled
HOLIDAY DATE	88-94	7	-	ddmmyy	May be Filled
HOLIDAY DATE	96-102	7	-	ddmmyy	May be Filled
HOLIDAY DATE	104-110	7	-	ddmmyy	May be Filled
HOLIDAY DATE	112-118	7	-	ddmmyy	May be Filled
HOLIDAY DATE	120-126	7	-	ddmmyy	May be Filled

6.d.(1) The RECORD IDENTIFIER shall always begin with "HOLI". Each Holiday Record used shall have this identification in the first four columns.

6.d.(2) The CALENDAR CODE indicates which work-week calendar the holidays shall be applied to. More than one HOLI record may be used for a given CALENDAR CODE.

6.d.(3) The HOLIDAY DATE shall contain the date of each individual non-work day.

6.e. Activity Records: Activity Records shall follow any Holiday Record(s). If there are no Holiday Record(s), then the Activity Records shall follow the Calendar Record(s). There shall be one Activity Record for every activity in the network. Each activity shall have one record in the following format:

<u>Description</u>	<u>Column Position</u>	<u>Max. Len.</u>	<u>Req. Value</u>	<u>Type</u>	<u>Notes</u>
RECORD IDENTIFIER	1-4	4	ACTV	Fixed	Filled
ACTIVITY ID	6-15	10	√	Integer	See Comment Below
ACTIVITY DESCR.	17-46	30	√	Alpha.	Left Justified
ACTIVITY DURATION	48-50	3	√	Integer	Right Justified
CONSTRAINT DATE	52-58	7		ddmmmyy	May be Filled
CONSTRAINT TYPE	60-61	2		ES or LF	May be Filled
CALENDAR CODE	63-63	1	√	Alpha.	Filled
HAMMOCK CODE	65-65	1	Y, blank	Fixed	May be Filled
WORKERS PER DAY	67-69	3		Integer	Right Justified
RESPONSIBILITY CODE	71-74	4		Alpha.	Left Justified
WORK AREA CODE	76-79	4		Alpha.	Left Justified
MOD OR CLAIM NO.	81-86	6		Alpha.	Left Justified
BID ITEM	88-93	6		Alpha.	Left Justified
PHASE OF WORK	95-96	2		Alpha.	Left Justified
CATEGORY OF WORK	98-98	1		Alpha.	May be Filled
FEATURE OF WORK	100-128	30		Alpha.	Left Justified

6.e.(1) The RECORD IDENTIFIER for each activity description record must begin with the four character "ACTV" code. This field shall be used for both the Arrow Diagram Method (ADM) and Precedence Diagram Method (PDM).

6.e.(2) The ACTIVITY ID consists of coding that shall differ, depending on whether the ADM or PDM method was selected in the Project Record. If the ADM method was selected then the field shall be interpreted as two right-justified fields of five (5) integers each. If the PDM method was selected the field shall be interpreted as one (1) right-justified field of ten (10) integers each. The maximum activity number allowed under this arrangement is 99999 for ADM and 999999999 for the PDM method. [Usage note: Many systems allow alphanumeric ACTIVITY IDs. While the SDEF does not strictly, allow the use of alphanumeric values, users may agree to use the ACTIVITY ID field to exchange alphanumeric data. It is recommended that the ACTIVITY ID be restricted to integers when one or more of the systems being used for scheduling allows only integer ACTIVITY ID values.]

6.e.(3) The ACTIVITY DESCRIPTION shall be a maximum of 30 characters. Descriptions must be limited to the space provided.

6.e.(4) The ACTIVITY DURATION contains the estimated original duration for the activity on the schedule. The duration shall be based upon the work-week designated by the activity's related calendar.

6.e.(5) The CONSTRAINT DATE field shall be used to identify a date that the scheduling system may use to modify float calculations. If there is a date in this field, then there must be a valid entry in the CONSTRAINT TYPE field.

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6.e.(6) The CONSTRAINT TYPE field shall be used to identify the way that the scheduling system shall use the CONSTRAINT DATE to modify schedule float calculations. If there is a value in this field, then there must be a valid entry in the CONSTRAINT DATE field. The valid values for the CONSTRAINT TYPE are as follows:

<u>Code</u>	<u>Definition</u>
ES	The CONSTRAINT DATE shall replace an activity's early start date, if the early start date is prior to the CONSTRAINT DATE.
LF	The CONSTRAINT DATE shall replace an activity's late finish date, if the late finish date is after the CONSTRAINT DATE.

[Usage note: Systems provide a wide variety of constraint types that may not be supported by other systems. It is recommended that constraint types be restricted to the values above regardless of the capabilities of the various systems being used for scheduling.]

6.e.(7) The CALENDAR CODE relates this activity to an appropriate work-week calendar. The ACTIVITY DURATION must be based on the valid work-week referenced by this CALENDAR CODE field.

6.e.(8) The HAMMOCK CODE indicates that a particular activity does not have its own independent duration, but takes its start dates from the start date of the preceding activity (or node) and takes its finish dates from the finish dates of its succeeding activity (or node). If the value of the HAMMOCK CODE field is "Y", then the activity is a hammock activity.

6.e.(9) The WORKERS PER DAY shall contain the average number of workers expected to work on the activity each day the activity is in progress. If this code is required by project scheduling specifications, values for this data will be right justified. Activities without workers per day shall have a value of "0".

6.e.(10) The RESPONSIBILITY CODE shall identify the subcontractors or major trade involved with completing the work for the activity. If this code is required by project scheduling specifications, value for this data will be left justified.

6.e.(11) The WORK AREA CODE shall identify the location of the activity within the project. If this code is required by project scheduling specifications, value for this data will be left justified.

6.e.(12) The MOD OR CLAIM NUMBER shall uniquely identify activities that are added or changed on a construction contract modification, or activities that justify any claimed time extensions. If this code is required by project scheduling specifications, value for this data will be left justified.

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6.e.(13) The BID ITEM shall identify the bid item number associated with each activity. If this code is required by project scheduling specifications, value for this data will be left justified.

6.e.(14) The PHASE OF WORK shall identify the timing of a specific activity within the entire project. If this code is required by project scheduling specifications, value for this data will be left justified.

6.e.(15) The CATEGORY OF WORK shall identify the general type of work performed by every activity. If this code is required by project scheduling specifications, value for this data will be placed in the field.

6.e.(16) The FEATURE OF WORK shall identify a very broad designation of the general type of work that is being accomplished by the activity. If this code is required by project scheduling specifications, value for this data will be left justified. [Usage note: Many systems require that FEATURE OF WORK values be placed in several activity code fields. It is recommended that users review SDEF documentation to determine the correct way to use a given software system to produce the FEATURE OF WORK code.]

6.f. Precedence Record: The Precedence Record(s) shall follow the Activity Records if a Precedence Diagram Method schedule (PDM) is identified in the ARROW OR PRECEDENCE field of the Project Record. The Precedence Record has the following format:

<u>Description</u>	<u>Column</u>	<u>Max.</u>	<u>Req.</u>	<u>Type</u>	<u>Notes</u>
	<u>Position</u>	<u>Len.</u>	<u>Value</u>		
RECORD IDENTIFIER	1 - 4	4	PRED	Fixed	Filled
ACTIVITY ID	6-15	10	√	Integer	See Comment Below
PRECEDING ACTIVITY	17 - 26	10	√	Integer	See Comment Below
PREDECESSOR TYPE	28-28	1	√	S, F, C	Filled
LAG DURATION	30-33	4	√	Integer	Right Justified

6.f.(1) The RECORD IDENTIFIER shall begin with the four characters "PRED" in the first four columns of the record.

6.f.(2) The ACTIVITY ID identifies the activity whose predecessor shall be specified in this record.

6.f.(3) The PRECEDING ACTIVITY number is the number of an activity that precedes the activity noted in the ACTIVITY ID field.

6.f.(4) The PREDECESSOR TYPE field indicates the type of relation that exists between the chosen pair of activities. Valid PREDECESSOR TYPE fields areas follows:

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<u>Code</u>	<u>Definition</u>
S	Start-to-Start relation
F	Finish-to-Finish relation
C	Finish-to-Start relation

[Usage note: Some systems provide additional predecessor types that may not be supported by all other systems. It is recommended that predecessor types be restricted to the values above regardless of the capabilities of the various systems being used for scheduling.]

6.f.(5) The LAG DURATION field contains the number of days delay between the preceding and current activity. [Usage note: Some systems allow negative values for the LAG DURATION. Because these values are not supported by all other systems, it is recommended that values be restricted to zero and positive integers.]

6.g. Unit Cost Record: The Unit Cost Record shall follow all Precedence Records. If the schedule utilizes the Arrow Diagram Method, then the Unit Cost Record shall follow any Activity records. There shall be one Unit Cost Record for every activity that is not a lump sum activity. [Usage note: (1) It is recommended that users who wish to exchange unit cost data contact SDEF vendor representatives to determine the ability of the software system to import/export unit cost information. (2) If the software being used by each member of the project team supports unit cost data then users may wish to conduct a trial run of the SDEF data exchange with a two or three-activity network to ensure that unit cost data transfers as expected. If problems are found please consult vendor representatives for resolution prior to exchange of full project schedules. (3) Unit cost record data does not, in most systems, result in the correct values being placed in the ACTIVITY COST and COST TO DATE fields of the Progress (PROG) Record. Users must, at this time, manually transfer the data from the Unit Cost Record to the Progress Record.]

The fields for this record shall take the following format:

<u>Description</u>	<u>Column Position</u>	<u>Max. Len.</u>	<u>Req. Value</u>	<u>Type</u>	<u>Notes</u>
RECORD IDENTIFIER	1-4	4	UNIT	Fixed	Filled
ACTIVITY ID	6-15	10	√	Integer	See Comment Below
TOTAL QTY	17-29	13	√	Format 8.4	Right Justified
COST PER UNIT	31-43	13	√	Format 8.4	Right Justified
QTY TO DATE	45-57	13	√	Format 8.4	Right Justified
UNIT OF MEASURE	59-61	3	√	Alpha.	Left Justified

6.g.(1) The RECORD IDENTIFIER shall be identified with the four characters 'UNIT' placed in the first four columns of the record.

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6.g.(2) The ACTIVITY ID for each activity shall match the format described in the activity record. Each activity may have only one Unit Cost Record.

6.g.(3) The TOTAL QTY is the total amount of material to be used in this activity. This number consists of eight digits, one decimal point and four more digits. An example of a number in this format is "11111111.1111". If decimal places are not needed this field shall still contain a ".0000" in columns 25-29. [Usage note: Many systems support a different format for this value that does not include as many decimal places. It is recommended that users determine their requirements for significant digits based on the lowest common denominator of the software systems being used for a given project.]

6.g.(4) The COST PER UNIT is the cost, in dollars and cents, for each unit to be used in this activity. This number consists of eight digits, one decimal point, and four more digits. An example of a number in this format is "11111111.1111". If decimal places are not needed this field shall still contain a ".0000" in columns 39-43. [Usage note: Many systems support a different format for this value that does not include as many decimal places. It is recommended that users determine their requirements for significant digits based on the lowest common denominator of the software systems being used for a given project.]

6.g.(5) The QTY TO DATE is the quantity of material installed in this activity up to the data date. This number consists of eight digits, one decimal point, and four more digits. An example of a number in this format is "11111111.1111". If decimal places are not needed this field shall still contain a ".0000" in columns 53-57. [Usage note: Many systems support a different format for this value that does not include as many decimal places. It is recommended that users determine their requirements for significant digits based on the lowest common denominator of the software systems being used for a given project.]

6.g.(6) The UNIT OF MEASURE is an abbreviation that may be used to describe the units being measured for this activity. Valid values for this field are any meaningful English or metric unit, except "LS" for Lump Sum. Lump Sum activities are not to have Unit Cost Records.

6.h. Progress Record: Progress Record(s) shall follow all Unit Cost Record(s). If there are no Unit Cost Record(s), then the Progress Record(s) shall follow all Precedence Records. If the schedule utilizes the Arrow Diagram Method, then the Progress Record shall follow any Activity Records. One Progress Record is required for every activity in the Activity Record. The fields for this Record shall be provided in the following format:

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<u>Description</u>	<u>Column Position</u>	<u>Max. Len.</u>	<u>Req. Value</u>	<u>Type</u>	<u>Notes</u>
RECORD IDENTIFIER	1-4	4	PROG	Fixed	Filled
ACTIVITY ID	6-5	10	√	Integer	See Comment Below
ACTUAL START DATE	17-23	7	√	ddmmyy	Filled if Started
ACTUAL FINISH DATE	25-31	7	√	ddmmyy	Filled if Finished
REMAINING DURATION	33-35	3	√	Integer	Right Justified
ACTIVITY COST	37-48	12	√	Format 9.2	Right Justified
COST TO DATE	50-61	12	√	Format 9.2	Right Justified
STORED MATERIAL	63-74	12	√	Format 9.2	Right Justified
EARLY START DATE	76-82	7	√	ddmmyy	Filled if Not Started
EARLY FINISH DATE	84-90	7	√	ddmmyy	Filled if Not Finished
LATE START DATE	92-98	7	√	ddmmyy	Filled if Not Started
LATE FINISH DATE	100-1067		√	ddmmyy	Filled if Not Finished
FLOAT SIGN	108-1081		+,-	Fixed	Filled if Not Finished
TOTAL FLOAT	110-1123		√	Integer	R. Just. if Not Finished

6.h.(1) The RECORD IDENTIFIER shall begin with the four characters "PROG" in the first four columns of the record.

6.h.(2) The ACTIVITY ID for each activity for which progress has been posted shall match the format described in the Activity Record.

6.h.(3) An ACTUAL START DATE is required for all in-progress activities. The ACTUAL START DATE shall be the same as, or later than, the PROJECT START date contained in the Project Record. The ACTUAL START DATE shall also be the same as, or prior to, the DATA DATE contained in the Project Record. If there is an ACTUAL START DATE for an activity that there must also be a REMAINING DURATION, and the values for the EARLY START DATE and LATE START DATE are blank. [Usage note: Some systems allow default values for ACTUAL START DATE if the date is not entered by the user. Because the failure to include a start date for activities may result in different schedule calculations, it is recommended that the ACTUAL START DATE be required for all activities in progress.]

6.h.(4) An ACTUAL FINISH DATE is required for all completed activities. If the REMAINING DURATION of an activity is zero, then there must be an ACTUAL FINISH DATE. If there is an ACTUAL FINISH DATE, then values for the EARLY START DATE, LATE START DATE, EARLY FINISH DATE, LATE FINISH DATE, FLOAT SIGN, and TOTAL FLOAT shall be blank. [Usage note: Some systems allow default values for ACTUAL FINISH DATE if the date is not entered by the user. Because the failure to include a finish date for activities may result in different schedule calculations, it is recommended that the ACTUAL FINISH DATE be required for all activities in progress.]

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6.h.(5) AREMAINING DURATION is required for all activities. Activities that have not started shall have a remaining duration equal to their original duration. Activities completed based on time, shall have a zero (0) REMAINING DURATION. [Usage note: Systems have a variety of "short-cut" methods to determine the REMAINING DURATION value. It is recommended that users actually consider the time required to complete the remaining work on a given task, rather than allow a system to calculate the remaining duration based on the amount of work that has already been accomplished.]

6.h.(6) The ACTIVITY COST contains the estimated earned value of the work to be accomplished in the activity. An example of a number in this format is "1111111 11.11". If decimal places are not needed this field shall still contain a ".00" in the last three columns of this field. [Usage note: Users should inquire of software vendors if the user needs to add a zero in the data field to produce the default value "0.00".]

6.h.(7) The COST TO DATE contains the earned value for the activity. If there is an ACTUAL START DATE, then there must also be some value for COST TO DATE. An example of a number in this format is "11111111.11". If decimal places are not needed, this field shall still contain a ".00" in the last three columns of this field. The COST TO DATE is not tied to REMAINING DURATION. For example, if the REMAINING DURATION is "0", the COST TO DATE may only be 95% of the ACTIVITY COST. This difference may be used to reflect 5% retainage for punch list items. [Usage note: Systems implement cost information in different ways. It is recommended that users carefully review SDEF documentation and test results to determine how to ensure that SDEF data is exported correctly.]

6.h.(8) The STORED MATERIAL field contains the value of the material that the Contractor has paid for and is on site or in secure storage areas that is a portion of the COST TO DATE. An example of a number in this format is "11111111.11". If decimal places are not needed, this field shall still contain a ".00" in the last three columns of this field. [Usage note: Systems implement the stored materials field in a variety of ways. Many systems do not enforce STORED MATERIAL + COST TO DATE < ACTIVITY COST. To avoid potential confusion between systems, it is recommended that new activities be added to a schedule to reflect the cost of large equipment procurement rather than use the STORED MATERIALS field.]

6.h.(9) The EARLY START DATE indicates the earliest date possible that an activity can start as calculated by a CPM scheduling system or other Contracting Officer approved planning method. If the progress record for an activity contains an ACTUAL START DATE, then this field shall be blank.

6.h.(10) The EARLY FINISH DATE indicates the earliest date possible that an activity can finish as calculated by a CPM scheduling system or other Contracting Officer approved planning method. If the progress record for an activity contains an ACTUAL FINISH DATE, then this field shall be blank.

6.h.(11) The LATE START DATE indicates the latest date that an activity can begin as calculated by a CPM scheduling system or other Contracting Officer approved planning method. If the progress record for an activity contains an ACTUAL START DATE, then this field shall be blank.

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6.h.(12) The LATE FINISH DATE indicates the latest date that an activity can finish as calculated by a CPM scheduling system or other Contracting Officer approved planning method. If the progress record for an activity contains an ACTUAL FINISH DATE, then this field shall be blank.

6.h.(13) The FLOAT SIGN indicates whether the float time calculated using a CPM scheduling system or other Contracting Officer approved planning method, is positive or negative in nature. If the progress record for an activity contains an ACTUAL FINISH DATE, then this field shall be blank. In the case of zero float this field shall be blank.

6.h.(14) The TOTAL FLOAT indicates the total float time. In the Precedence Diagram Method (PDM), the total float is the difference between the early and late start or finish dates. In the Arrow Diagram Method (ADM), the total float is equal to the late event time at the end of the activity, minus the sum of the early event time at the start of the activity plus the duration of the activity.

6.i. Project End Record: The Project End Record shall be used to identify that the data file is completed. If the ASCII End of File character is encountered, then data import programs shall use that character to infer that the data continues on the next disk. The user shall then be prompted for the next disk number, based on the VOLM record data. The Project End Record shall be the last record of the entire data file, and shall have the following format:

<u>Description</u>	<u>Column</u>	<u>Max.</u>	<u>Req.</u>	<u>Type</u>	<u>Notes</u>
	<u>Position</u>	<u>Len.</u>	<u>Value</u>		
RECORD IDENTIFIER	1-3	3	END	Fixed	Filled

6.i.(1) The RECORD IDENTIFIER for the Project End Record shall be "END". Data contained in the data exchange file that occurs after this record shall not be used.

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SECTION 01330

SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SUBMITTAL IDENTIFICATION

Submittals required are identified by SD numbers as follows:

SD-01 Data

SD-04 Drawings

SD-07 Schedules

SD-08 Statements

SD-09 Reports

SD-18 Records

1.2 SUBMITTAL CLASSIFICATION

Submittals are classified as follows:

1.2.1 Government Approved

Governmental approval 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 SUBMITTALS

The Contracting Officer's approval 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 will not relieve the Contractor of the responsibility for any error which 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 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 have not been obtained.

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)

At the end of this section is 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 will also be given the submittal register as a diskette containing the computerized ENG Form 4288 and instructions on the use of the diskette. Columns "d" through "r" have been completed by the Government; the Contractor shall complete columns "a" and "s" through "u" and submit the forms (hard copy plus associated electronic file) to the Contracting Officer for approval within 30 calendar days after Notice to Proceed. The Contractor shall keep this diskette up-to-date and shall submit it to the Government together with the monthly payment request. The approved submittal register will become the scheduling document and will be used to control submittals throughout the life of the contract. The submittal register and the progress schedules shall be coordinated.

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. No delay damages or time extensions will be allowed for time lost in 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)

The sample transmittal form (ENG Form 4025) attached to this section shall be used for submitting both Government approved and information only submittals in accordance with the instructions on the reverse side of the form. These forms will be furnished to the Contractor. 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.

3.5 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:

U.S. Army Corps of Engineers
Kwajalein Resident Office
P.O. Box 230
APO, AP 96555-2528

3.5.2 Deviations

For submittals which include proposed deviations requested by the Contractor, the column "variation" of 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.

3.6 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."

3.7 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.

3.8 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.

3.9 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 --

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		01452	SD-07 Certificates														
			Special Inspector	1.3	G ED												
			Quality Assurance Plan	1.4	G ED												
		01572	SD-07 Certificates														
			Construction Waste Management Plan	1.3	FIO												
		02120	SD-03 Product Data														
			Notices of Non-Compliance and Notices of Violation	1.2.1	FIO												
			On-site Hazardous Waste Management	3.1	G RE												
			SD-06 Test Reports														
			Recordkeeping	3.6	G RE												
			Spill Response	3.7	G RE												
			Exception Reports	3.6	G RE												
			SD-07 Certificates														
			Qualifications	1.3	G RE												
			EPA Off-Site Policy Management Plan	3.2.2	G RE												
			Shipping Documents and Packagings Certification	3.1.2	G RE												
				3.2.3	G RE												
		02220	SD-08 Manufacturer's Instructions														
			Work Plan	1.4	G RE												
		02315	SD-09 Manufacturer's Field Reports														
			Testing		FIO												

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		02316	SD-06 Test Reports														
			Field Density Tests	3.4.3	FIO												
			Testing of Backfill Materials	3.4.2	FIO												
		02510	SD-03 Product Data														
			Installation	3.1	FIO												
			Waste Water Disposal Method		FIO												
			Satisfactory Installation		FIO												
			SD-06 Test Reports														
			Bacteriological Disinfection	3.3.1	FIO												
		02531	SD-07 Certificates														
			Portland Cement	2.7.1	FIO												
			Joints	2.3	FIO												
		02532	SD-06 Test Reports														
			Hydrostatic Tests	3.2	G RE												
		02630	SD-03 Product Data														
			Placing Pipe	3.3	FIO												
			SD-04 Samples														
			Pipe for Culverts and Storm	2.1	FIO												
			Drains														
			SD-07 Certificates														
			Resin Certification	2.1.2	FIO												
			Pipeline Testing	3.7	FIO												
			Hydrostatic Test on Watertight	2.4	FIO												
			Joints														
			Determination of Density	3.6.5	FIO												
			Frame and Cover for Gratings		FIO												

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		02722	SD-03 Product Data														
			Plant, Equipment, and Tools	1.5	FIO												
			SD-06 Test Reports														
			Sampling and testing	1.4	FIO												
			Field Density Tests	1.4.2.4	G ED												
		02754	SD-03 Product Data														
			Equipment	1.6	FIO												
			Paving	3.4	FIO												
			Mixture Proportions	2.11	G ED												
		02763	SD-03 Product Data														
			Equipment		FIO												
			Composition Requirements		FIO												
			Qualifications		FIO												
			SD-06 Test Reports														
			Sampling and Testing		FIO												
			SD-07 Certificates														
			Volatile Organic Compound (VOC)		FIO												
		02770	SD-03 Product Data														
			Concrete	2.1	FIO												
			SD-06 Test Reports														
			Field Quality Control	3.8	FIO												
		02821	SD-07 Certificates														
			Chain Link Fence	2.1.1	FIO												
		03100	SD-03 Product Data														
			Design	1.3	FIO												

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		03100	Form Materials	2.1	FIO												
			Form Releasing Agents	2.1.5	FIO												
		03151	SD-03 Product Data														
			Splicing Waterstops	2.2.2	G RE												
			SD-04 Samples														
			Field Molded Sealants and Primer	2.1.2.1	FIO												
			Waterstops	2.1.3	FIO												
			SD-06 Test Reports														
			Premolded Expansion Joint Filler Strips	2.1.1	FIO												
			Compression Seals and Lubricant	2.1.2.2	FIO												
			Metallic Waterstops	2.1.3.2	FIO												
		03200	SD-02 Shop Drawings														
			Reinforcement	3.1	G RE												
			SD-03 Product Data														
			Welding	1.3	G RE												
			SD-07 Certificates														
			Reinforcing Steel	2.1	G RE												
		03230	SD-02 Shop Drawings														
			Installation Drawings	3.1.2	G ED												
			SD-03 Product Data														
			Prestressing Method and Equipment	3.1.1	G ED												
			Materials Disposition Records	3.3	FIO												
			Prestressing Operations Records	3.1.7	FIO												
			SD-06 Test Reports														

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		03230	Stressing Tendons and Accessories	2.1	FIO												
			SD-07 Certificates														
			Certification of Prestressing Technicians	1.3	FIO												
		03300	SD-03 Product Data														
			Mixture Proportions	1.7	G RE												
			SD-06 Test Reports														
			Testing and Inspection for Contractor Quality Control	3.14	G RE												
			SD-07 Certificates														
			Qualifications	1.3	FIO												
		03410	SD-02 Shop Drawings														
			Precast/Prestressed Units	1.3	G AE												
			SD-03 Product Data														
			Precast/Prestressed Units	1.3	G AE												
			SD-06 Test Reports														
			Tests	2.2	G AE												
		03415	SD-02 Shop Drawings														
			Erection	3.9	G AE												
			SD-03 Product Data														
			Erection Plan	3.9.5	G AE												
			Design Calculations	1.3.1.3	G AE												
			Concrete Mixture Proportions	2.2	G AE												
			Construction Records	3.10	FIO												
			SD-04 Samples														

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		03415	Precast Panel	1.4	G AE												
			SD-06 Test Reports														
			Materials	2.1	G AE												
			Concrete	1.3.2.2	G AE												
			SD-07 Certificates														
			Cement	2.1.1	G AE												
			Air-Entraining Admixture	2.1.2.2	G AE												
			Water-Reducing Admixture	2.1.2.2	G AE												
			Accelerating Admixture		G AE												
			Aggregates	2.1.2.1	G AE												
			Air Content	1.3.2.3	FIO												
		04200	SD-02 Shop Drawings														
			Masonry Work		G RE												
			SD-04 Samples														
			Concrete Masonry Units (CMU)	2.2	G ED												
			Anchors, Ties, and Bar Positioners	2.6	G ED												
			Expansion-Joint Materials	2.10	G ED												
			Joint Reinforcement	2.7	G ED												
			SD-06 Test Reports														
			Field Testing of Mortar	3.15.1	G RE												
			Field Testing of Grout	3.15.2	G RE												
			Masonry Cement	2.4	G RE												
			SD-07 Certificates														
			Concrete Masonry Units (CMU)	2.2	G RE												

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		04200	Anchors, Ties, and Bar Positioners	2.6	G RE												
			Joint Reinforcement	2.7	G RE												
			Reinforcing Steel Bars and Rods	2.8	G RE												
			Masonry Cement	2.4	G RE												
			Mortar Admixtures	2.4.1	G RE												
			Grout Admixtures	2.5.1	G RE												
		05090	SD-03 Product Data														
			Welding Procedure Qualifications	1.5	G RE												
			Welder, Welding Operator, and Tacker Qualification	1.6	G RE												
			Inspector Qualification	1.7	G RE												
			Previous Qualifications	1.5.1	G RE												
			Prequalified Procedures	1.5.2	G RE												
			SD-06 Test Reports														
			Quality Control	3.2	G RE												
		05120	SD-02 Shop Drawings														
			Structural Connections	3.1.1	G RE												
			SD-03 Product Data														
			Welding	3.2	G RE												
			SD-04 Samples														
			Carbon Steel Bolts and Nuts	2.4	FIO												
			Nuts Dimensional Style	2.5	FIO												
			Washers	2.6	FIO												
			SD-07 Certificates														
			Mill Test Reports		G RE												

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		05120	Welder Qualifications		G RE												
			Welding Inspector	1.5	G RE												
		05400	SD-02 Shop Drawings														
			Framing Components	2.1	FIO												
			SD-07 Certificates														
			Mill Certificates		FIO												
			Welds	3.2.1	FIO												
		05500	SD-02 Shop Drawings														
			Steel Pipe Bollards	3.1.1	FIO												
			Canopy Framing	3.1.2	FIO												
			Refrigerant Rack Frames	3.1.3	FIO												
			Stainless Steel Fixed Ladder	3.1.4	FIO												
			Stainless Steel Pipe Bicycle Racks	3.1.5	FIO												
			Stainless Steel Mechanical Enclosure Gate	3.1.6	FIO												
			Handhole Concrete Cover	3.1.7	FIO												
			Checker Plate at Door D-35	3.1.8	FIO												
		06100	SD-07 Certificates														
			Grading and Marking	2.1.1	FIO												
		06200	SD-02 Shop Drawings														
			Finish Carpentry	2.1	FIO												
			SD-03 Product Data														
			Laminated Plastic	2.1.6	FIO												
			SD-04 Samples														
			Laminated Plastic	2.1.6	FIO												

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		06600	SD-02 Shop Drawings														
			FRP Shapes and Gratings	2.1.1	FIO												
			SD-03 Product Data														
			FRP Shapes and Gratings	2.1.1	FIO												
			SD-07 Certificates														
			FRP Shapes and Gratings	2.1.1	FIO												
		07132	SD-03 Product Data														
			Reinforcing Fabric	3.2.2	FIO												
			Protection Board	3.4.2	FIO												
			Applications	2.1.2	FIO												
			SD-07 Certificates														
			Materials	1.4	FIO												
		07212	SD-03 Product Data														
			Sound Attenuation Batt Insulation	2.1.1	FIO												
			Accessories	2.2	FIO												
			SD-08 Manufacturer's Instructions														
			Sound Attenuation Batt Insulation	2.1.1	FIO												
		07220	SD-03 Product Data														
			Application of Insulation	3.6	FIO												
			Inspection	3.7	FIO												
			SD-07 Certificates														
			Insulation	2.2	FIO												
		07225	SD-02 Shop Drawings														
			Refrigerated Floor Insulation	1.2.1	FIO												
			SD-03 Product Data														
			Refrigerated Floor Insulation	1.2.1	FIO												

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		07225	SD-04 Samples														
			Insulation	2.1.1	FIO												
			Vapor Barrier	2.1.3	FIO												
			Slip Sheet	2.1.3	FIO												
		07240	SD-02 Shop Drawings														
			Drawings	2.2.1	FIO												
			Drawings	3.7.1	FIO												
			SD-03 Product Data														
			Exterior Insulation and Finish System	1.3	FIO												
			Exterior Insulation and Finish System	1.3	FIO												
			Water Vapor Transmission Analysis	1.5	FIO												
			SD-04 Samples														
			Exterior Insulation and Finish System	1.3	FIO												
			SD-06 Test Reports														
			Exterior Insulation and Finish System	1.3	FIO												
			SD-07 Certificates														
			Qualifications	1.6.1	FIO												
			Qualifications	1.6.1	FIO												
			Third Party Inspection	3.9.1	FIO												
			Installer	3.2	FIO												
			Warranty	1.9	FIO												

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		07240	Insulation Board	2.2	FIO												
			Quality Control	3.9.2	FIO												
			SD-10 Operation and Maintenance Data														
			Exterior Insulation and Finish System	1.3	FIO												
		07416	SD-02 Shop Drawings														
			Structural Standing Seam Metal Roof System	1.5.2	FIO												
			SD-03 Product Data														
			Design Analysis		FIO												
			Qualifications		FIO												
			SD-04 Samples														
			Accessories	2.3	FIO												
			Roof Panels	2.1	FIO												
			Factory Color Finish	2.5	FIO												
			Fasteners	2.4	FIO												
			Gaskets and Insulating Compounds	2.7	FIO												
			Sealant	2.6	FIO												
			Concealed Anchor Clips	2.2	FIO												
			SD-06 Test Reports														
			Test Report for Uplift Resistance of the SSSMR	1.5.1	FIO												
			SD-07 Certificates														

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		07416	Structural Standing Seam Metal Roof System	1.5.2	FIO												
		07510	SD-03 Product Data Inspection	3.16	FIO												
			SD-07 Certificates Bitumen	2.2	FIO												
			Felt	2.5	FIO												
			Cants	2.4	FIO												
		07600	SD-02 Shop Drawings Materials	2.1	FIO												
		07840	SD-02 Shop Drawings Firestopping Materials	2.1	FIO												
			SD-07 Certificates Firestopping Materials	2.1	FIO												
			Installer Qualifications	1.5	FIO												
			Inspection	3.3	FIO												
		07900	SD-03 Product Data Backing	2.1	FIO												
			Bond-Breaker	2.2	FIO												
			Sealant	2.4	FIO												
			SD-07 Certificates Sealant	2.4	FIO												
		08210	SD-02 Shop Drawings Fire Doors	3.1.2	FIO												
			Wood Doors and Frames	1.3.1	FIO												
			SD-07 Certificates														

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		08210	Fire Doors	3.1.2	FIO												
			Adhesives	2.1.3	FIO												
		08250	SD-02 Shop Drawings														
			FRP Doors and Frames	2.1	FIO												
			SD-03 Product Data														
			FRP Doors and Frames	2.1	FIO												
			SD-07 Certificates														
			FRP Doors and Frames	2.1	FIO												
		08560	SD-02 Shop Drawings														
			Vinyl Windows	2.1	FIO												
			Insect Screens	2.6	FIO												
			SD-03 Product Data														
			Vinyl Windows	2.1	FIO												
			Insect Screens	2.6	FIO												
			Installation	3.1	FIO												
			Cleaning	3.3	FIO												
			SD-04 Samples														
			Finish	2.5	FIO												
			SD-07 Certificates														
			Vinyl Windows	2.1	FIO												
			Insect Screens	2.6	FIO												
		08700	SD-03 Product Data														
			Hardware Schedule	1.3	FIO												
			Keying	2.5	G RE												
			Keying System	1.2.1	G RE												
			SD-07 Certificates														

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		08700	Hardware and Accessories	1.2.2	FIO												
		08810	SD-02 Shop Drawings														
			Installation	3.2	FIO												
			SD-03 Product Data														
			Glazing Accessories	2.3	FIO												
		09250	SD-02 Shop Drawings														
			Steel Framing	2.5.1	FIO												
			Steel Framing	3.1	FIO												
			SD-07 Certificates														
			Gypsum Wallboard	2.4.1	FIO												
			Gypsum Wallboard	3.7	FIO												
			Steel Framing	2.5.1	FIO												
			Steel Framing	3.1	FIO												
			Cementitious Backer Units	2.6	FIO												
		09310	SD-03 Product Data														
			Tile	2.1	FIO												
			Tile	2.1	FIO												
			Mortar and Grout	2.4	FIO												
			Mortar and Grout	2.4	FIO												
			SD-04 Samples														
			Tile	2.1	FIO												
			Marble Thresholds	2.5	FIO												
			SD-07 Certificates														
			Tile	2.1	FIO												
			Mortar and Grout	2.4	FIO												
		09510	SD-02 Shop Drawings														

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		09510	Approved Detail Drawings	1.3	FIO												
			SD-03 Product Data														
			Acoustical Ceiling Systems	1.2.1	FIO												
			SD-04 Samples														
			Acoustical Units	2.1	FIO												
			SD-06 Test Reports														
			Ceiling Attenuation Class and Test	2.5	FIO												
			SD-07 Certificates														
			Acoustical Units	2.1	FIO												
		09650	SD-03 Product Data														
			Resilient Flooring and Accessories	1.2.1	FIO												
			SD-04 Samples														
			Flooring	3.2	FIO												
			SD-06 Test Reports														
			Moisture Test	3.3	FIO												
		09900	SD-03 Product Data														
			Paint	2.1	FIO												
			Mixing and Thinning	3.3	FIO												
			Application	3.4	FIO												
			SD-04 Samples														
			Moisture-Curing Polyurethane	1.5	FIO												
			Paint	2.1	FIO												
			SD-06 Test Reports														
			Paint	2.1	FIO												

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		09900	SD-07 Certificates														
			Lead	2.1.3	FIO												
			Mildewcide and Insecticide	2.1.2	FIO												
			Volatile Organic Compound (VOC) Content	2.1.5	FIO												
		10161	SD-02 Shop Drawings														
			Shower Partition System	1.2	FIO												
			Shower Partition System	2.2	FIO												
			SD-03 Product Data														
			Shower Partition System	1.2	FIO												
			Shower Partition System	2.2	FIO												
			SD-04 Samples														
			Shower Partition System	1.2	FIO												
			Shower Partition System	2.2	FIO												
		10201	SD-02 Shop Drawings														
			Metal Wall Louvers	2.1	FIO												
			Metal Wall Louvers	3.1	FIO												
			SD-03 Product Data														
			Metal Wall Louvers	2.1	FIO												
			Metal Wall Louvers	3.1	FIO												
		10440	SD-03 Product Data														
			Installation	3.1	FIO												
			SD-04 Samples														
			Interior Signage	1.3	FIO												
		10505	SD-02 Shop Drawings														
			Solid plastic lockers	2.1	FIO												

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		10505	SD-03 Product Data														
			Solid plastic lockers	2.1	FIO												
		10800	SD-03 Product Data														
			Finishes	2.1.2	FIO												
			Accessory Items	2.2	FIO												
			SD-04 Samples														
			Finishes	2.1.2	FIO												
			Accessory Items	2.2	FIO												
		11551	SD-02 Shop Drawings														
			Pallet Storage Racks	1.3.1	FIO												
			Seismic Protection	1.3.1.2	FIO												
			Aisle Signs and Labels	2.3	FIO												
			SD-03 Product Data														
			Pallet Storage Racks	1.3.1	FIO												
			SD-07 Certificates														
			Pallet Storage Racks Certification	1.2.1	FIO												
		12490	SD-02 Shop Drawings														
			Approved Detail Drawings	3.1	FIO												
			SD-03 Product Data														
			Window Treatments	3.1	FIO												
			Hardware	1.3	FIO												
			SD-04 Samples														
			Window Treatments	3.1	FIO												
		13038	SD-02 Shop Drawings														
			Cold storage rooms	2.1	FIO												
			SD-03 Product Data														

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		13038	Cold storage rooms	2.1	FIO												
			SD-08 Manufacturer's Instructions														
			Cold storage rooms	2.1	FIO												
			SD-10 Operation and Maintenance Data														
			Cold storage rooms	2.1	FIO												
		13040	SD-02 Shop Drawings														
			Hydronic Floor Warming System	1.2	FIO												
			SD-03 Product Data														
			Spare Parts	1.4.1	FIO												
			SD-06 Test Reports														
			Test Reports	1.4.2	FIO												
			SD-08 Manufacturer's Instructions														
			Hydronic Floor Warming System	1.2	FIO												
			SD-10 Operation and Maintenance Data														
			Hydronic Floor Warming System	1.2	FIO												
		13080	SD-02 Shop Drawings														
			Bracing	3.1	FIO												
			Resilient Vibration Isolation Devices	3.4	FIO												
			Equipment Requirements	1.2.1	FIO												
			SD-03 Product Data														
			Bracing	3.1	FIO												
			Equipment Requirements	1.2.1	FIO												
		13280	SD-03 Product Data														

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		13280	Respiratory Protection Program	1.12	G RE												
			Cleanup and Disposal	3.11	G RE												
			Detailed Drawings	3.6.5.2	G RE												
			Detailed Drawings	3.9.2	G RE												
			Materials and Equipment		G RE												
			Qualifications	1.5	G RE												
			Training Program	1.11	G RE												
			Medical Requirements	1.10	G RE												
			Encapsulants	2.1	G RE												
			SD-06 Test Reports														
			Exposure Assessment and Air Monitoring	3.9	G RE												
			Local Exhaust Ventilation	1.20	G RE												
			Licenses, Permits and Notifications	1.14	G RE												
			SD-07 Certificates														
			Vacuum, Filtration and Ventilation Equipment		G RE												
		13281	SD-03 Product Data														
			Materials and Equipment	1.18	G RE												
			Expendable Supplies	1.19	G RE												
			Qualifications	1.5	G RE												
			SD-06 Test Reports														
			Licences, Permits, and Notifications	1.11	G RE												
			Accident Prevention Plan (APP)	1.7	G RE												

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		13281	Sampling and Analysis	1.13	G RE												
			Clearance Report	3.7	G RE												
		13286	SD-07 Certificates														
			Qualifications of CIH	1.8.1	G												
			Training Certification	1.8.1	G												
			PCB and Mercury-Containing Lamp Removal Work Plan	1.8.2	G												
			PCB and Mercury-Containing Lamp Disposal Plan	1.8.3	G												
			SD-11 Closeout Submittals														
			Transporter certification	3.5.2	G												
			Certification of Decontamination	3.2.4	G												
			Certificate of Disposal and/or recycling	3.5.2.1	FIO												
		13851	SD-02 Shop Drawings														
			Fire Alarm Reporting System	1.4.1	G RE												
			SD-03 Product Data														
			Storage Batteries	2.2	G RE												
			Special Tools and Spare Parts	2.7.3	FIO												
			Technical Data and Computer Software	1.5	G RE												
			Training	3.5	FIO												
			Testing	3.4	FIO												
			Voltage Drop	1.2.1	G RE												
			SD-06 Test Reports														
			Testing	3.4	FIO												

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		13851	SD-07 Certificates														
			Equipment	1.3.1	FIO												
			Equipment	1.3.6	FIO												
			Qualifications	1.3.7	G RE												
			SD-10 Operation and Maintenance Data														
			Technical Data and Computer Software	1.5	G RE												
		13930	SD-02 Shop Drawings														
			Sprinkler System Shop Drawings		G RE												
			As-Built Shop Drawings		FIO												
			SD-03 Product Data														
			Fire Protection Related Submittals	3.1	FIO												
			Fire Protection Related Submittals	3.1	FIO												
			Load Calculations for Sizing Sway Bracing	1.6.1	G RE												
			Components and Equipment Data		G RE												
			Hydraulic Calculations	1.7	G RE												
			Spare Parts	1.6.3	FIO												
			Preliminary Tests Procedures	1.6.3	G RE												
			Final Acceptance Test Procedures	1.6.3	G RE												
			On-site Training Schedule	1.6.3	G RE												
			Preliminary Tests	3.10	G RE												
			Final Acceptance Test	3.11	G RE												
			Fire Protection Specialist Qualifications	1.8	G RE												

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		13930	Sprinkler System Installer	1.9	G RE												
			Qualifications														
			SD-06 Test Reports														
			Preliminary Tests Report	1.6.4	G RE												
			Final Acceptance Test Report	1.6.4	G RE												
			SD-07 Certificates														
			Fire Protection Specialist	3.3	G RE												
			Inspection														
			SD-10 Operation and Maintenance														
			Data														
			Wet Pipe Sprinkler System	1.2	FIO												
		15070	SD-02 Shop Drawings														
			Contractor Designed Bracing	1.2.4	FIO												
			SD-03 Product Data														
			Coupling and Bracing	3.1	FIO												
			Equipment Requirements	1.3	FIO												
			Contractor Designed Bracing	1.2.4	G RE												
			SD-07 Certificates														
			Flexible Ball Joints	2.2	FIO												
		15080	SD-04 Samples														
			Thermal Insulation Materials	1.4.1	FIO												
		15400	SD-02 Shop Drawings														
			Plumbing System	3.7.1	FIO												
			Electrical Schematics	1.5.1	FIO												
			SD-03 Product Data														
			Plumbing Fixture Schedule	3.8	FIO												

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		15400	Vibration-Absorbing Features		FIO												
			Plumbing System	3.7.1	FIO												
			SD-06 Test Reports														
			Tests, Flushing and Disinfection	3.7	FIO												
			SD-07 Certificates														
			Materials and Equipment	1.5.2	FIO												
			Bolts	1.5.2	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Plumbing System	3.7.1	FIO												
		15652	SD-02 Shop Drawings														
			Refrigeration System	2.8	FIO												
			Drawings	1.4.2	FIO												
			Drawings	3.1.9	FIO												
			SD-03 Product Data														
			Refrigeration System	2.8	FIO												
			Framed Instructions	3.1.24	FIO												
			Qualifications		FIO												
			Verification of Dimensions	1.4.1	FIO												
			Tests	3.2	FIO												
			Demonstrations	3.4	FIO												
			Spare Parts Data	1.2.1	FIO												
			SD-06 Test Reports														
			Tests	3.2	FIO												
			SD-07 Certificates														
			Refrigeration System	2.8	FIO												

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		15652	Service Organizations	1.2.2	FIO												
		15653	SD-02 Shop Drawings														
			Drawings	1.4.2	G ED												
			SD-03 Product Data														
			Air-Conditioning System	1.2.3	FIO												
			Spare Parts Data	1.2.2	FIO												
			Framed Instructions	1.2.2	FIO												
			Framed Instructions	3.1.3	FIO												
			SD-06 Test Reports														
			Tests	1.2.2	FIO												
			Tests	3.2	FIO												
			System Performance Tests		FIO												
			Inspections		FIO												
			SD-07 Certificates														
			Air-Conditioning System	1.2.3	FIO												
			Service Organizations	1.2.3	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Operation	2.3	FIO												
			Operation	3.4	FIO												
			Maintenance Manuals	3.4	FIO												
		15895	SD-02 Shop Drawings														
			Drawings	1.4.1	FIO												
			Installation	3.1	FIO												
			SD-03 Product Data														
			Components and Equipment	2.1	FIO												

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		15895	Test Procedures		FIO												
			System Diagrams		FIO												
			Similar Services		FIO												
			Testing, Adjusting and Balancing	3.6	FIO												
			Field Training	3.8	FIO												
			SD-06 Test Reports														
			Performance Tests	3.7	FIO												
			SD-07 Certificates														
			Bolts		FIO												
			SD-10 Operation and Maintenance														
			Data														
			Operating and Maintenance	3.8	FIO												
			Instructions														
		15951	SD-02 Shop Drawings														
			HVAC and Refrigeraton Control System	3.1.1	FIO												
			SD-03 Product Data														
			Service Organizations		FIO												
			Equipment Compliance Booklet	1.6	FIO												
			Commissioning Procedures	3.5	FIO												
			Performance Verification Test Procedures	1.6	FIO												
			Training	3.7	FIO												
			SD-06 Test Reports														
			Commissioning Report	3.7.2	FIO												
			Performance Verification Test	3.6.3	FIO												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
COLD STORAGE FACILITY, KWAJALEIN ATOLL, MARSHALL ISLANDS

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		15951	SD-10 Operation and Maintenance Data														
			Operation Manual	1.5	FIO												
			Maintenance and Repair Manual	1.6	G ED												
		15990	SD-02 Shop Drawings														
			TAB Schematic Drawings and Report Forms	3.3	FIO												
			SD-03 Product Data														
			TAB Related HVAC Submittals	3.2	FIO												
			TAB Procedures	3.5.1	FIO												
			Calibration	1.4	FIO												
			Systems Readiness Check	3.5.2	FIO												
			TAB Execution	3.5.1	FIO												
			TAB Verification	3.5.4	FIO												
			SD-06 Test Reports														
			Design Review Report	3.1	FIO												
			Systems Readiness Check	3.5.2	FIO												
			TAB Report	3.5.3	FIO												
			TAB Verification Report	3.5.4	FIO												
			SD-07 Certificates														
			Ductwork Leak Testing	3.4	FIO												
			TAB Firm	1.5.1	FIO												
			TAB Specialist	1.5.2	FIO												
		15995	SD-03 Product Data														
			Commissioning Team	3.1	FIO												
			Test Procedures		FIO												

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CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		15995	Test Schedule		FIO												
			SD-06 Test Reports														
			Test Reports		FIO												
		16360	SD-02 Shop Drawings														
			Unit Substation Drawings	1.5.1.1	G RE												
			SD-03 Product Data														
			Secondary Unit Substation	2.2	G RE												
			SD-06 Test Reports														
			Ground resistance test reports	1.5.2	G RE												
			acceptance checks and tests	3.5.1	G RE												
			SD-07 Certificates														
			Transformer losses	1.5.3	G RE												
			SD-09 Manufacturer's Field														
			Reports														
			Switchgear design and production	2.4.2	G RE												
			tests														
			design tests (dry-type)	2.4.4	G RE												
			routine and other tests (dry-type)	2.4.5	G RE												
			SD-10 Operation and Maintenance														
			Data														
			Unit substations	1.6.1	G RE												
			Transformer (dry-type)	2.2.3	G RE												
			SD-11 Closeout Submittals														
			Equipment test schedule	2.4.1	G RE												
		16375	SD-02 Shop Drawings														
			Electrical Distribution System	3.9.3	G RE												

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CONTRACTOR

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		16375	As-Built Drawings		G RE												
			SD-03 Product Data														
			Fault Current Analysis		G RE												
			Protective Device		G RE												
			Nameplates	2.2	FIO												
			Material and Equipment	2.1	FIO												
			General Installation Requirements	3.1	FIO												
			SD-06 Test Reports														
			Factory Tests	2.13	FIO												
			Field Testing	3.9	FIO												
			Cable Installation	3.2.1.4	FIO												
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			Cable Installer Qualifications	1.3.1	FIO												
			SD-10 Operation and Maintenance Data														
			Electrical Distribution System	3.9.3	FIO												
		16415	SD-02 Shop Drawings														
			Emergency Power Supply (EPS)	2.20	G RE												
			Interior Electrical Equipment	1.3.1	G RE												
			SD-03 Product Data														
			Manufacturer's Catalog	1.3.2	FIO												
			Material, Equipment, and Fixture Lists	1.3.3	FIO												
			Installation Procedures	1.3.4	FIO												

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TITLE AND LOCATION
COLD STORAGE FACILITY, KWAJALEIN ATOLL, MARSHALL ISLANDS

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		16415	As-Built Drawings	1.2.6	FIO												
			As-Built Drawings	1.3.5	FIO												
			Onsite Tests	1.3.6	G RE												
			SD-06 Test Reports														
			Factory Test Reports	1.3.7	G RE												
			Field Test Plan	1.3.8	G RE												
			Field Test Reports	1.3.9	G RE												
			Field Test Reports	3.18	G RE												
			SD-07 Certificates														
			Materials and Equipment	1.4	FIO												
		16528	SD-02 Shop Drawings														
			Lighting System	1.3.1	G RE												
			Detail Drawings	1.2.1	G RE												
			As-Built Drawings	1.2.1	FIO												
			SD-03 Product Data														
			Equipment and Materials	1.3.6	FIO												
			SD-06 Test Reports														
			Operating Test	3.7.1	G RE												
			SD-10 Operation and Maintenance														
			Data														
			Lighting System	1.3.1	FIO												
		16710	SD-02 Shop Drawings														
			Premises Distribution System	1.7	G RE												
			Record Drawings	1.5.1	G RE												
			SD-03 Product Data														

INSTRUCTIONS

1. Section I will be initiated by the Contractor in the required number of copies.
2. Each transmittal shall be numbered consecutively in the space provided for "Transmittal No." This number, in addition to the contract number, will form a serial number for identifying each submittal. For new submittals or resubmittals mark the appropriate box; on resubmittals, insert transmittal number of last submission as well as the new submittal number.
3. The "Item No." will be the same "Item No." as indicated on ENG FORM 4288-R for each entry on this form.
4. Submittals requiring expeditious handling will be submitted on a separate form.
5. Separate transmittal form will be used for submittals under separate sections of the specifications.
6. A check shall be placed in the "Variation" column when a submittal is not in accordance with the plans and specifications -- also, a written statement to that effect shall be included in the space provided for "Remarks."
7. Form is self-transmittal, letter of transmittal is not required.
8. When a sample of material or Manufacturer's Certificate of Compliance is transmitted, indicate "Sample" or "Certificate" in column c, Section I.
9. U.S. Army Corps of Engineers approving authority will assign action codes as indicated below in space provided in Section I, column i, to each item submitted. In addition they will ensure enclosures are indicated and attached to the form prior to return to the contractor. The Contractor will assign action codes as indicated below in Section I, column g, to each item submitted.

THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED

- | | | | |
|------|--|-------|---|
| A -- | Approved as submitted. | E -- | Disapproved (See attached). |
| B -- | Approved, except as noted on drawings. | F -- | Receipt acknowledged. |
| C -- | Approved, except as noted on drawings.
Refer to attached sheet resubmission required. | FX -- | Receipt acknowledged, does not comply as
noted with contract requirements. |
| D -- | Will be returned by separate correspondence. | G -- | Other (Specify) |
10. Approval of items does not relieve the contractor from complying with all the requirements of the contract plans and specifications.

(Reverse of ENG Form 4025-R)

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SECTION 01431

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.

ARMY REGULATION (AR)

AR 200-1 (1997) Environmental Protection and Enhancement

UNITED STATES ARMY KWAJALEIN ATOLL

UES Environmental Standards and Procedures for United States Army Kwajalein Atoll (USAKA) Activities

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 United States (US), Republic of the Marshall Islands (RMI) and Installation (USAKA) laws, regulations, procedures and 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-18 Records

Environmental Protection Plan; G, RE.

Within 30 calendar days of receipt of 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. The environmental protection plan shall include but not be limited to the following:

- a. A list of US, RMI and USAKA 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, 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.
- l. Acknowledgement that the contractor shall be responsible for the removal off the island of all excess unused, hazardous materials upon project completion and all hazardous wastes.

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 this contract. Isolated areas within the general work area which 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: The contractor shall construct and maintain diversion ditches, benches, and berms, retention ponds, weirs and other features to divert surface runoff to sediment basins and protected drainage courses.
- b. Erosion and Sedimentation Control Devices: The Contractor shall construct or install all temporary erosion control features necessary to comply with the aforementioned laws, regulation, procedures and permits. All temporary features including sediment basins, berms, containment dikes, grassing etc. installed by the Contractor shall be maintained by the Contractor. Sediment basins shall be sized to contain the run-off from a 4-inch rainfall event over the total affected construction area. Overflow weirs shall be provided to maximize effectiveness of the sediment basins for sediment retention. Sediment depositions in the basins shall be removed after each major storm and materials removed shall be stockpiled at an approved site. Water quality monitoring shall be developed and implemented by the Contractor to assure that effluent and receiving water quality requirements are met as prescribed by the aforementioned laws and regulation.

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 by the Contracting Officer. Temporary movement or relocation of Contractor facilities shall be made only on approval by the Contracting Officer.
- b. Spoil Areas on Government Property: Disposal areas on Government property shall be managed and controlled to comply with all provisions of the aforementioned laws, regulation, procedures and permits. Segregation of different waste materials by the Contractor shall be as directed by the Contracting Officer.
- c. 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.

3.1.2.1 Solid Wastes

Solid wastes (excluding clearing debris) shall be placed in containers which are emptied on a regular approved schedule. All handling and disposal shall be conducted in compliance with the UES to prevent contamination. Segregation of waste materials shall be in accordance with USAKA procedures into recyclables, combustibles and non-combustibles. No hazardous or toxic waste shall become comingled with solid waste. Waste

materials shall be hauled and disposed within the Government disposal facility and shall comply with USAKA procedures on the use of the disposal facility. The contractor shall prepare all combustible construction debris for use in the USAKA refuse incinerators and the non-combustible materials to the appropriate landfill area(s).

3.1.2.2 Chemical Wastes:

Chemicals shall be dispensed in a way to adequately ensure no spillage to ground or water. Daily 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 the UES.

3.1.2.3 Hazardous and Toxic Wastes

The Contractor shall take sufficient measures to prevent spillage of hazardous and toxic materials. The Contractor shall collect waste as described in the UES. The Contractor shall be responsible for the transport of all hazardous and toxic waste from USAKA, and for the disposal of these wastes in compliance with the UES. The Contractor may use the USAKA Logistics Support Contractor to accomplish the above tasks on a cost reimbursable basis. In accordance with the UES, spills of hazardous or toxic materials or wastes shall be immediately reported to the USAKA Environmental Office, and the Contracting Officer. All cleanup costs incurred by USAKA due to Contractor spills shall be the responsibility of the contractor.

3.1.2.4 Dispensing of Petroleum Products and Hazardous Materials and Products

Petroleum products and hazardous materials shall be dispensed to ensure that leakages and spillages do not occur. Daily inspection of dispensing operations shall be conducted and documented by the Contractor. In accordance with the UES all spills and leaks shall be immediately reported to the USAKA Environmental Office and the Contracting Officer. Corrective actions on spillages and leakages shall be immediately undertaken by the Contractor, including documentation. Records and documentation shall be made available to the Contracting Officer upon his request.

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 protect and 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. 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 immediately suspended by the Contractor or AM. 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 Contracting Officer and USAKA Environmental Office will be notified and appropriate actions determined, IAW the UES.

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 which are included in this contract. The Contractor shall not apply toxic or hazardous substances/chemicals to soil or vegetation.

3.1.4.1 Washing and Curing Water

Waste waters resulting directly from the construction activities shall not be allowed to enter drainage ways, ocean or lagoon waters. These waste waters, including that which are generated from dewatering activities, shall be collected and placed in retention/holding ponds to allow for settlement of suspended material. Analysis shall be performed on the water and sediment with the results reviewed and approved by the USAKA Environmental Office before the water in the pond is discharged or sediment is placed in a landfill.

3.1.4.2 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 in the Contractor's Environmental Protection Plan by the Contractor prior to beginning of construction operations.

3.1.6 Air Resources

All activities performed in accomplishing the specified construction shall be in compliance with US, RMI and USAKA laws, regulation, procedures, and standards, including the UES, Part 3-1. Special management techniques as set out below shall be implemented to control air pollution by the construction activities which are included in the contract.

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 (using fresh water), scrubbers, electrostatic precipitators or other methods will be permitted to control particulates in the work area. The use of petroleum base products for particulate control is prohibited.

3.1.6.2 Hydrocarbons and Carbon Monoxide

Hydrocarbons, carbon monoxide and sulphur oxide emissions from equipment and other sources shall be controlled to the allowable limits in the UES 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. Monitoring results shall be made available to the Contracting Officer, on demand, for review.

3.1.7 Sound Intrusions

The Contractor shall control noise levels within the construction site and surrounding areas to conform with AR 200-1, RMI and USAKA regulations, standards and policies. Monitoring using acceptable instruments shall be the responsibility of the contractor.

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 --

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SECTION 01780

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PART 2 PRODUCTS (NOT USED)

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SECTION 01780

CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES.

SD-18 Records

As-Built Drawings; FIO.

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 original drawings, 2 sets of prints of the originals, and one set of the Government accepted working as-built drawings.

As-Built Record of Equipment and Materials; FIO.

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

Warranty Management Plan; FIO.

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; FIO.

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

Final Clean-Up; FIO.

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 which are revised to be used for final as-built drawings.

1.2.1.1 Government Furnished Materials

One set of electronic CADD files in the specified software and format revised to reflect all bid amendments will be provided by the Government at the preconstruction conference for projects 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 contract plans which 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. Final as-built drawings shall be prepared after the completion of each definable feature of work as listed in the Contractor Quality Control Plan (Foundations, Utilities, Structural Steel, etc., as appropriate for the project). 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 which 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 CADD drawings shall be employed to modify the contract drawings or prepare additional new

drawings. Additions and corrections to the contract 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 pentable. 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 layer/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. Special notes shall be in blue on layer #63.

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 contract drawings shall be marked either "AS-Built" drawing denoting no revisions on the sheet or "Revised As-Built" denoting one or more revisions. Original contract drawings shall be dated in the revision block.

d. Within 10 days for contracts less than \$5 million after Government acceptance of all of the working as-built drawings for a phase of work, the Contractor shall prepare the final CADD as-built drawings for that phase of work and submit two sets of blue-lined prints of these drawings for Government review. The Government will promptly return one set of prints annotated with any necessary corrections. Within 7 days for contracts less than \$5 million the Contractor shall revise the CADD files accordingly at no additional cost and submit one set of final prints for the completed phase of work to the Government. Within 10 days for contracts less than \$5 million of substantial completion of all phases of work, the Contractor shall submit the final as-built drawing package for the entire project. The submittal shall consist of one set of electronic files on compact disc, read-only memory (CD-ROM), one set of originals, 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 contract drawing files supplied by the Government. Any transactions or

adjustments necessary to accomplish this is 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 and 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.

1.2.1.5 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 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 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.

1.2.4 Real Property Equipment

The Contractor shall furnish a list of installed equipment furnished under this contract. 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 which 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 contract 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 which 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 backcharge 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-Electrical

Street 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

Operation manuals and maintenance manuals shall be submitted as specified. Operation manuals and maintenance manuals provided in a common volume shall be clearly differentiated and shall be separately indexed.

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)

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PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

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SECTION 01900

MISCELLANEOUS PROVISIONS

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 A 240 (1993) Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels

1.2 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Data

Equipment Data; FIO.

A list of all equipment furnished under this contract. This list shall include, but not be limited to, each piece of equipment with a serial number, and shall include all information shown on the manufacturer's nameplate, so as to positively identify the piece of equipment. This list shall also include the cost of each piece of equipment (less installation costs) F.O.B. construction site. This list shall be furnished as soon as possible after equipment is purchased. The list shall consist of one (1) reproducible and three (3) copies, and shall be furnished to the Contracting Officer not later than thirty (30) calendar days prior to completion of any segment of the contract work which has an incremental completion date.

Recovered Material Report; FIO.

The Contractor shall provide a report listing all products meeting EPA guidelines for products containing recovered materials and quantity used for this project.

SD-04 Drawings

As-Built Drawings; FIO.

SD-09 Reports

Inspection of Existing Conditions; FIO.

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 Area Family Housing Contracting Officer, prior to construction.

SD-13 Certificate

Products Containing Recovered Materials; FIO

The Contractor shall submit manufacturer's certification attesting that product meets or exceeds EPA's recovered material guidelines.

SD-18 Records

Dust Control; GA.

Method(s) of dust control.

Condition of Contractor's Operation or Storage Area; FIO.

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 AS-BUILT DRAWINGS

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

1.5 DUST CONTROL

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.

1.6 PROTECTION

The Contractor shall take all necessary precautions to insure 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.

1.6.1 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.

1.6.2 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.

1.6.3 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.

1.6.4 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.

1.7 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.

1.8 REMOVAL AND DISPOSAL

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.

1.8.1 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 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.

1.8.2 Rubbish and Debris

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

1.9 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 which is to remain undisturbed.

1.9.1 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.

1.9.2 Utilities and Facilities

All utilities and facilities within the 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 CONTRACTOR'S OPERATIONS OR STORAGE AREA

At the request of the Contractor, an open operations or storage area will be made available within the installation, the exact location of which will be determined by the Government. The Contractor shall be responsible for the security necessary for protection of his equipment and materials, and shall maintain the area free of debris. No rusty or unsightly materials shall be used for providing the secure measure and such measure shall be erected in a workmanlike manner. Before any construction commences on establishing the operation/storage area, Contractor shall take photographs and/or videos of the site in order to establish the original conditions of the site. A duplicate set shall be made and submitted to the Government for its files. Upon completion and prior to the final acceptance of the contract work, the Contractor shall restore the area to its original condition.

1.11 INSPECTION

1.11.1 Final Inspection and Acceptance

The Contractor shall give the Contracting Officer, a minimum of fourteen (14) calendar days advance notice prior to final inspection for acceptance by the Contracting Officer. All deficiencies found on final inspection shall be promptly and satisfactorily corrected by the Contractor upon notification by the Contracting Officer.

1.12 WORKING DIRECTIVES

1.13 STAINLESS STEEL TYPE 316

All steel indicated on the drawings and specifications for construction in exterior and non-air conditioned spaces shall be stainless steel, type 316, conforming to ASTM A 240. This requirement shall supercede all requirements noted on other sections in this Project Specifications and shall include but not be limited to sheet metal, fasteners, screens, frames, etc.

1.14 USE OF PRODUCTS CONTAINING RECOVERED MATERIALS

Recovered materials are materials manufactured from waste material and byproducts that have been recycled or diverted from solid waste. The Contractor shall give preference to products containing recovered material when price, performance, and availability meet project requirements. A listing of products, including the recommended recovered material content, is provided by the Environmental Protection Agency at <http://www.epa.gov/cpg/products.htm>. Only those products having recovered material content equal to or greater than EPA guidelines shall be used to meet this requirement.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

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DATE	1 December 2000
SUBJECT	DIG PERMITS
ORIGINATOR	Facilities Operation and Maintenance (FOM)
FILING INSTRUCTIONS	Revised: Replaces SPI 1310 dated December 14, 1995
PURPOSE	To establish a procedure for the Kwajalein Logistics Support (KLS) contractor, Corps of Engineers (COE) subcontractors, and residents to obtain Dig Permits at U.S. Army Kwajalein Atoll/Kwajalein Missile Range (USAKA/KMR) and to provide a safe and environmentally sensitive standardized method of excavating at USAKA/KMR.
REFERENCE PUBLICATIONS	<ul style="list-style-type: none">A. Statement of Work, SW-A-1-95, Paragraph 3.5.9.2 & 3.6.14B. Environmental Standards and Procedures for U.S. Army Kwajalein Atoll Activities in the Republic of the Marshall Islands (UES)C. Historic Preservation Plan, U. S. Army Kwajalein AtollD. SPI 1170, Construction and Maintenance of Additions to USAKA Housing UnitsE. SPI 1540, Environmental Review of Proposed ActionsF. USAKA/KMR Regulation 385-64, Explosive Safety
REFERENCE FORM	<ul style="list-style-type: none">A. RSE Form 1540-D, Discovery of Archeological Resources, SPI 1540, Environmental Review of Proposed Actions.B. RSE Form 1540-E, Discovery of Human Remains, SPI 1540, Environmental Review of Proposed Actions.
RESPONSIBILITIES	<ul style="list-style-type: none">A. KLS Manager, Facilities Support Division, oversees the dig permit program on Kwajalein, Meck, Roi-Namur, and the mid-atoll Islands.B. KLS Manager, Facilities Operations and Maintenance, Kwajalein, is responsible for the implementation of the dig permit program on Kwajalein and the mid-atoll islands (excluding Gagan).C. KLS Managers, Meck and Roi-Namur, are responsible for the implementation of the dig permit program on Meck, Roi-Namur, and Gagan.D. KLS Deputy Manager, Housing Services, is responsible for the implementation of the dig permit program involving housing residents. The Building Inspector will issues dig permits to residents requesting building permits, when excavation is involved.E. The requester of the dig permit obtains all necessary signatures

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prior to starting any digging operation.

GENERAL

- A. To protect underground utility services, such as piping, electrical, or communications lines, unexploded ordnance (UXO) and historic or archaeological sites on the islands of Kwajalein Atoll, no digging is to be performed without the requester submitting a drawing/sketch of the work area and obtaining a signed Dig Permit, KLS Form 1310-A (Attachment A).
- B. The Dig Permit and its accompanying drawings/sketches are to remain on-site during the entire digging operation.
- C. A designated spotter is used throughout the excavation to look for any undocumented underground utility services, UXO or cultural artifacts. If anything unexpected is struck, digging stops immediately until the unexpected obstacle is identified. If something of a cultural or historic nature is found, the procedures outlined in SPI 1540, Environmental Review of Proposed Actions, Attachments: Discovery of Archeological Resources and Discovery of Human Remains are to be followed. For any other unexpected finds, contact the Job Supervisor or the Manager, FOM.
- D. In general there are five types of work that require a Dig Permit:
 - 1. Planned work by the KLS Contractor (work packages approved by USAKA/KMR) or Minor Individual Job Orders (MIJOs) approved by the Manager, Facilities Support.
 - 2. Service Order level work, approved by the Manager, Project Planning and Control.
 - 3. Planned work done by other contractors approved by USAKA/KMR.
 - 4. Residential Dig Permits, which allow residents to do minor excavations such as digging postholes for fences or other such ground disturbances.
 - 5. Emergency excavations to repair failed utility services, such as:
 - a. A broken utility line or cable that requires immediate repair as its loss of use would present a disruption of normal utility service to a facility.
 - b. A failed utility line that is leaking fluid and needs to be excavated to stop the leak to prevent a waste of water or that presents a threat to public safety.
- E. For General, D, 1 through 4 above, a Dig Permit (Attachment A), is completed by the requester or incorporated into an Engineered Work Package and walked through the signature process.

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PROCEDURES

- A. The requester or, in the case of Engineered Work Packages, the Facilities Engineering Department, submits a Dig Permit (Attachment A) and a site drawing. If no site drawing is available, then an island map with adequate detail is to be submitted which has the dig line clearly defined, and states the length, depth and width of the proposed excavation. A short detailed description of the work to be done should also be submitted.
- B. The requester is responsible for obtaining all the necessary signatures on the Dig Permit.
- C. When a request is submitted to an issuing agent (listed below in Procedures F), the agent may perform all necessary tests on the proposed excavation site to ascertain if any underground utility services are present. These tests can include the use of metal detectors, toning equipment, etc., along with thorough research of existing documentation.
- D. The agent marks the submitted drawing with all known underground utility services for the requester's use and may mark the site with approved markers, such as painted or flagged stakes driven flush into the ground, to identify them.
- E. When excavation is required, an Explosive Ordnance Disposal (EOD) representative is to be notified at least 24 hours before each dig so they can determine if monitoring is required. The only exception to this is emergency excavations the procedure is noted below in Procedures L.
- F. Approval signatures of issuing agents listed below are required before digging operations can begin:
 - 1. Kwajalein and Mid-Atoll Islands
 - a. Telephone Services Supervisor
 - b. KLS Liquid Plants (Utilities)
 - c. KLS High Voltage Shop (Utilities)
 - d. KLS Electric Shop (FOM)
 - 2. Roi-Namur and Gagan Islands
 - a. Telephone Services Supervisor
 - b. KLS Liquid Plants (Utilities)
 - c. KLS High Voltage Shop (Utilities)
 - d. KLS Electric Shop (FOM)
 - 3. Meck Island
 - a. Communications Supervisor

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- b. KLS Liquid Plants (Utilities)
- c. KLS High Voltage Shop (Utilities)
- d. KLS Electric Shop (FOM)
- 4. All Islands
 - a. RSE Environmental
 - b. USAKA Historic Preservation Professional
- G. Because many areas on USAKA/KMR leased lands are identified as potentially significant cultural or historic resources, the Dig Permit (Attachment A) is submitted with sufficient time to allow inspectors to research and document the services located below ground and to allow the Historic Preservation Professional to determine the potential impact on cultural resources, which may require the Historic Preservation Professional to be on-site during excavation.
- H. If a proposed excavation constitutes an undertaking that may result in changes in the character or use of historic properties then RSE Environmental must notify USAKA/KMR Office of Environmental Compliance.
- I. The following procedures apply to all ground disturbances or construction activities that are determined by the Historic Preservation Professional to potentially impact subsurface cultural deposits:
 - 1. Prior to excavation, an archaeological monitoring plan is prepared and implemented by the Historic Preservation Professional. The RMI HPO is informed that a plan is being prepared and may visit the site to evaluate the plan's development. A copy of the draft plan is provided to the RMI HPO, by USAKA/KMR, for review and comment.
 - 2. Activities requiring excavation incorporate the recommendations of the archaeological monitoring plan.
 - 3. Prior to excavation, personnel involved in excavation activities are advised of the procedures to be followed if archaeological resources, such as cultural/historical deposits or human remains, are discovered (see SPI 1540, Environmental Review of Proposed Actions, Attachments: Discovery of Archeological Resources and Discovery of Human Remains)
- J. Once the dig permit has the USAKA Environmental Office approval, if the scope of the project changes the excavation, USAKA Environmental is to be notified of the change before any digging occurs. Digging cannot start until they have agreed to the change.
- K. Where new utility services are installed, metallic warning tape is also installed approximately eight inches below grade, prior to

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back-filling the excavation. A set of "as built" drawings is provided to the KLS Engineering Department for future reference.

- L. If an emergency excavation is required, as defined in General, D. 5 above, every reasonable effort is made to contact the appropriate representatives listed for signature approval on the Dig Permit. At a minimum a RSE Environmental Representative must be contacted. If the excavation is in a sensitive area or affects a historic site, the USAKA/KMR Office of Environmental Compliance must be notified of the emergency excavation. RSE Environmental personnel will be responsible for the notification.
- M. Dig Permits for residents are mandatory whenever ground disturbance is required and requested by the resident. Such ground disturbances would include digging postholes for a fence or patio cover or digging a hole for a plant. The resident is responsible for obtaining all signatures on the Dig Permit form (Attachment A) and coordinating with the Building Inspector at the Housing Office.

ATTACHMENTS

- A. KLS Form 1310-A, Dig Permit

DIG PERMIT APPLICATION

Supervisor in Charge _____ Date _____

Document or Service Order Number _____

Reference Drawings _____

Location of Dig _____

Depth and Length of Dig _____

Type of Equipment to be used _____

Planned Date to Begin Excavation _____

USAKA File No.

RSE Environmental _____

Phone #'s Kwaj. 5-1134/5-3225, Roi 5-6738

Please provide the following: Detailed map of the project showing location and character (i.e. depth of excavation) of proposed activity.

- | | Yes | No |
|--|-------|-------|
| 1. Is the proposed excavation in a culturally sensitive area | _____ | _____ |
| 2. Does the proposed excavation require archaeological monitoring | _____ | _____ |
| 3. Does the excavated area need to be inspected prior to closure | _____ | _____ |
| 4. Date Historic Preservation Professional will be available to monitor/inspect the excavation. Date & Time: _____ | | |
| 5. Signature of USAKA Environmental representative _____ | | |

The following to be completed by issuing agents 3-5 days prior to excavation

Communications. Telephone, IRE _____
 Phone #'s Kwaj. 5-1123/1356, Roi 5-6311, Meck 5-7211

Liquid Plants, Utilities, KLS _____
 Phone #'s Kwaj. 5-1847/5-8044, Roi 5-6361, Meck 5-7135

High Voltage Shop, KLS _____
 Phone #'s Kwaj. 5-3426, Roi 5-6574, Meck 5-7130

Electric Shop, KLS _____
 Phone #'s Kwaj. 5-1502, Roi 5-6361, Meck 5-7279

****** Notify Explosive Ordnance Disposal before digging, ext. 5-1433 or pager number 019 or 065.******

For Residential Dig Permits Only

I understand that the digging approved by this permit is at my personal request. I further understand and agree that I cannot deviate from the approved dig permit in any manner without obtaining approval for such deviation. I have read and understand the provisions of SPI 1310 and agree to be bound thereby.

Signature

Date

