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USACE / NAVFAC / AFCEC / NASA **UFGS-01 50 00 (November 2020)**

Preparing Activity: USACE **Superseding**
UFGS-01 50 00 (May 2018)
UFGS-01 50 00.05 20 (November 2007)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated January 2021
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11/20

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SECTION 01 50 00

TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS
11/20

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NOTE: This specification covers the requirements for temporary construction facilities, safety systems, construction traffic provisions, construction signage and controls over Contractor operations required for use in all projects.

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable item(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR).

This guide specification includes tailoring for ARMY, NAVY, AIR FORCE, NASA, NAVFAC ML, NAVFAC FE, NAVFAC LANT, NAVFAC PAC, NAVFAC HAWAII, NAVFAC SE and NAVY DESIGN-BUILD projects. Where an Editor's Note states a paragraph is tailored for a Service or project type, the content of the paragraph, or a portion of the paragraph, is suited specifically to be included only for that Service or project type.

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PART 1 GENERAL

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NOTE: To download UFGS Forms, Graphics, and Tables, go to: http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/forms-graphics-tables

On the drawings, show:

1. Location of temporary buildings and storage areas, if specified;

2. Location of temporary utility connections, if specified.

****

1.1 REFERENCES

****

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a Reference Identifier (RID) outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

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

AMERICAN WATER WORKS ASSOCIATION (AWWA)

AWWA C511	(2017) Reduced-Pressure Principle Backflow Prevention Assembly

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70	(2020; ERTA 20-1 2020; ERTA 20-2 2020; TIA 20-1; TIA 20-2; TIA 20-3; TIA 20-4) National Electrical Code
NFPA 241	(2019) Standard for Safeguarding Construction, Alteration, and Demolition Operations

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety and Health Requirements Manual

U.S. FEDERAL HIGHWAY ADMINISTRATION (FHWA)

MUTCD	(2009; Rev 2012) Manual on Uniform Traffic

Control Devices

1.2 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list, and corresponding submittal items in the text, to reflect only the submittals required for the project. The Guide Specification technical editors have classified those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item, if the submittal is sufficiently important or complex in context of the project.

For Army projects, fill in the empty brackets following the "G" classification, with a code of up to three characters to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

The "S" classification indicates submittals required as proof of compliance for sustainability Guiding Principles Validation or Third Party Certification and as described in Section 01 33 00 SUBMITTAL PROCEDURES.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

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Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are [for Contractor Quality Control approval.][for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

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NOTE: For projects in the NAVFAC PAC Area of Operation, and for the submittals identified as SD-01 Preconstruction Submittals, remove the "G" designation.

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Construction Site Plan; G[, [_____]]

Traffic Control Plan; G[, [_____]]

Haul Road Plan; G[, [_____]]

Contractor Computer Cybersecurity Compliance Statements; G[, [_____]]

Contractor Temporary Network Cybersecurity Compliance Statements; G [, [_____]]

SD-03 Product Data

Backflow Preventers; G[, [_____]]

SD-06 Test Reports

Backflow Preventer Tests

SD-07 Certificates

Backflow Tester Certification

Backflow Preventers Certificate of Full Approval

1.3 CONSTRUCTION SITE PLAN

Prior to the start of work, submit for Government approval a site plan showing the locations and dimensions of temporary facilities (including layouts and details, equipment and material storage area (onsite and offsite), and access and haul routes, avenues of ingress/egress to the fenced area and details of the fence installation. Identify any areas which may have to be graveled to prevent the tracking of mud. Indicate if the use of a supplemental or other staging area is desired. Show locations of safety and construction fences, site trailers, construction entrances, trash dumpsters, temporary sanitary facilities, and worker parking areas.

1.4 BACKFLOW PREVENTERS CERTIFICATE

1.4.1 Backflow Tester Certificate

Prior to testing, submit to the Contracting Officer certification issued by the State or local regulatory agency attesting that the backflow tester has successfully completed a certification course sponsored by the regulatory agency. Tester must not be affiliated with a company participating in other phases of this Contract.

1.4.2 Backflow Prevention Training Certificate

Submit a certificate recognized by the State or local authority that states the Contractor has completed at least 10 hours of training in backflow preventer installations. The certificate must be current.

1.5 DOD CONDITION OF READINESS (COR)

DOD will set the Condition of Readiness (COR) based on the weather forecast for sustained winds 50 knots (93 km/hr58 mph) or greater. Contact the Contracting Officer for the current COR setting.

Monitor weather conditions a minimum of twice a day and take appropriate actions according to the approved Emergency Plan in the accepted Accident Prevention Plan, EM 385-1-1 Section 01 Emergency Planning and the instructions below.

Unless otherwise directed by the Contracting Officer, comply with:

a. Condition FOUR (Sustained winds of 93 km/hr 58 mph or greater expected within 72 hours): Normal daily jobsite cleanup and good housekeeping practices. Collect and store in piles or containers scrap lumber, waste material, and rubbish for removal and disposal at the close of each work day. Maintain the construction site including storage areas, free of accumulation of debris. Stack form lumber in neat piles less than one m 3.3 feet high. Remove all debris, trash, or objects that could become missile hazards. Review requirements pertaining to "Condition THREE" and continue action as necessary to attain "Condition FOUR" readiness. Contact Contracting Officer for weather and COR updates and completion of required actions.

b. Condition THREE (Sustained winds of 93 km/hr 58 mph or greater expected within 48 hours): Maintain "Condition FOUR" requirements and commence securing operations necessary for "Condition ONE" which cannot be completed within 18 hours. Cease all routine activities which might interfere with securing operations. Commence securing and stow all gear and portable equipment. Make preparations for securing buildings. Reinforce or remove formwork and scaffolding. Secure machinery, tools, equipment, materials, or remove from the jobsite. Expend every effort to clear all missile hazards and loose equipment from general base areas. Contact Contracting Officer for weather and COR updates and completion of required actions. Review requirements pertaining to "Condition TWO" and continue action as necessary to attain "Condition THREE" readiness.

c. Condition TWO (Sustained winds of 93 km/hr 58 mph or greater expected within 24 hours): Secure the jobsite, and leave Government premises.

d. Condition ONE. (Sustained winds of 93 km/hr 58 mph or greater expected within 12 hours): Contractor access to the jobsite and Government premises is prohibited.

1.6 CYBERSECURITY DURING CONSTRUCTION

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NOTE: The requirements in this subpart are included to provide a basic level of "cyber hygiene" during the construction process, and the controls that they are related to are still noted for reference. Paragraphs in this Article contain text in curly braces ("{" and "}") indicating which cybersecurity control and control correlation identifier (CCI) the requirements of the subpart relate to. The text inside these curly braces is for Government reference only, and enables coordination of the requirements of this Article with the RMF process throughout the design and construction process. Text in curly braces are not contractor requirements.

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{For Reference Only: This subpart (and its subparts) relates to AC-18, SA-3, CCI-00258.} Meet the following requirements throughout the construction process.

1.6.1 Contractor Computer Equipment

Contractor owned computers may be used for construction. When used, contractor computers must meet the following requirements:

1.6.1.1 Operating System

The operating system must be an operating system currently supported by the manufacturer of the operating system. The operating system must be current on security patches and operating system manufacturer required updates.

1.6.1.2 Anti-Malware Software

The computer must run anti-malware software from a reputable software manufacturer. Anti-malware software must be a version currently supported by the software manufacturer, must be current on all patches and updates, and must use the latest definitions file. All computers used on this project must be scanned using the installed software at least once per day.

1.6.1.3 Passwords and Passphrases

The passwords and passphrases for all computers must be changed from their default values. Passwords must be a minimum of eight characters with a minimum of one uppercase letter, one lowercase letter, one number and one special character.

1.6.1.4 Contractor Computer Cybersecurity Compliance Statements

Provide a single submittal containing completed Contractor Computer Cybersecurity Compliance Statements for each company using contractor owned computers. Contractor Computer Cybersecurity Compliance Statements must use the template published at http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/forms-graphics-tables. Each Statement must be signed by a cybersecurity representative for the relevant company.

1.6.2 Temporary IP Networks

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NOTE: The allowance of connection to "Government furnished IP networks provided for this purpose" covers the case of there being a "guest" network the contractor can use. This is likely not available in many cases, but is covered here for the instances in which it is offered by the project site.

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Temporary contractor-installed IP networks may be used during construction. When used, temporary contractor-installed IP networks must meet the following requirements:

1.6.2.1 Network Boundaries and Connections

The network must not extend outside the project site and must not connect to any IP network other than IP networks provided under this project or Government furnished IP networks provided for this purpose. Any and all network access from outside the project site is prohibited.

1.6.3 Government Access to Network

Government personnel must be allowed to have complete and immediate access to the network at any time in order to verify compliance with this specification.

1.6.4 Temporary Wireless IP Networks

In addition to the other requirements on temporary IP networks, temporary wireless IP (WiFi) networks must not interfere with existing wireless network and must use WPA2 security. Network names (SSID) for wireless networks must be changed from their default values.

1.6.5 Passwords and Passphrases

The passwords and passphrases for all network devices and network access must be changed from their default values. Passwords must be a minimum 8 characters with a minimum of one uppercase letter, one lowercase letter, one number and one special character.

1.6.6 Contractor Temporary Network Cybersecurity Compliance Statements

Provide a single submittal containing completed Contractor Temporary Network Cybersecurity Compliance Statements for each company implementing a temporary IP network. Contractor Temporary Network Cybersecurity Compliance Statements must use the template published at http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/forms-graphics-tables. Each Statement must be signed by a cybersecurity representative for the relevant company. If no temporary IP networks will be used, provide a single copy of the Statement indicating this.

PART 2 PRODUCTS

2.1 TEMPORARY SIGNAGE

2.1.1 Bulletin Board

Prior to the commencement of work activities, provide a clear weatherproof covered bulletin board not less than 915 by 1220 mm 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the Contract, Wage Rate Information poster, Safety and Health Information as required by EM 385-1-1 Section 01 and other information approved by the Contracting Officer. Coordinate requirements herein with 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS. Locate the bulletin board at the project site in a conspicuous place easily accessible to all employees, and in location as approved by the Contracting Officer.

2.1.2 Project Identification Signs

The requirements for the signs, their content, and location are [as indicated][and][as specified in Section 01 58 00 PROJECT

IDENTIFICATION]. Erect signs within 15 days after receipt of the notice to proceed. Correct the data required by the safety sign daily, with light colored metallic or non-metallic numerals.

2.1.3 Warning Signs

Post temporary signs, tags, and labels to give workers and the public adequate warning and caution of construction hazards according to the EM 385-1-1 Section 04. Attach signs to the perimeter fencing every 150 feet warning the public of the presence of construction hazards. Signs must require unauthorized persons to keep out of the construction site. Correct the data required by safety signs daily. Post signs at all points of entry designating the construction site as a hard hat area.

2.2 TEMPORARY TRAFFIC CONTROL

2.2.1 Haul Roads

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NOTE: For projects in the NAVFAC PAC Area of Operation, remove the bracketed portion "by the Contracting Officer" in the 6th sentence.

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Construct access and haul roads necessary for proper prosecution of the work under this Contract in accordance with EM 385-1-1 Section 04. Construct with suitable grades and widths; avoid sharp curves, blind corners, and dangerous cross traffic. Submit haul road plan for approval. Provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic. The method of dust control, although optional, must be adequate to ensure safe operation at all times. Location, grade, width, and alignment of construction and haul roads are subject to approval[by the Contracting Officer]. Lighting must be adequate to assure full and clear visibility for full width of haul road and work areas during any night work operations.

2.2.2 Barricades

Erect and maintain temporary barricades to limit public access to hazardous areas. Barricades are required whenever safe public access to paved areas such as roads, parking areas or sidewalks is prevented by construction activities or as otherwise necessary to ensure the safety of both pedestrian and vehicular traffic. Securely place barricades clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

2.3 FENCING

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NOTE: Evaluate fencing requirements based on the exposure potential of the construction site to the public. The public is considered as any non-construction personnel. Minimum fencing may range from nylon fabric (reinforced by a top supporting cable to provide adequate strength to provide needed physical protection) to 2400 mm 8 foot chain link fencing.

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NOTE: Use the second (optional) paragraph if projects require special privacy fencing based on project size, scope, complexity, and visibility. Coordinate with the supporting local USACE District for Army projects and NAVFAC FEAD or ROICC office for Navy projects to determine if a privacy fence is required.

****

Provide fencing along the construction site and at all open excavations and tunnels to control access by unauthorized personnel. Safety fencing must be highly visible to be seen by pedestrians and vehicular traffic. All fencing must meet the requirements of EM 385-1-1. Remove the fence upon completion and acceptance of the work.

[To block public view of the construction, enclose the project work area and Contractor lay-down area with a 2400 mm 8 ft high [shadow-box type, wooden fence and gates][chain link fence and gates with brown, UV light resistant, plastic fabric mesh netting (similar to tennis court or other screening).]

]2.3.1 Polyethylene Mesh Safety Fencing

Temporary safety fencing must be a high visibility orange colored, high density polyethylene grid, a minimum of 1.2 m 48 inches high and maximum mesh size of 50 mm 2 inches. Fencing must extend from the grade to a minimum of 1.2 m 48 inches above the grade and be tightly secured to T-posts spaced as necessary to maintain a rigid and taut fence. Fencing must remain rigid and taut with a minimum of 90.7 m 200 pounds of force exerted on it from any direction with less than 100 mm 4 inches of deflection.

2.3.2 Chain Link Panel Fencing

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NOTE: Select 6 feet high chain link fencing unless 8 feet is needed for additional security.

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Temporary panel fencing must be galvanized steel chain link panels [1.8 m6 feet] [2.4 m8 feet] high. Multiple fencing panels may be linked together at the bases to form long spans as needed. Each panel base must be weighted down using sand bags or other suitable materials in order for the fencing to withstand anticipated winds while remaining upright. Fencing must remain rigid and taut with a minimum of 90.7 kg 200 pounds of force exerted on it from any direction with less than 100 mm 4 inches of deflection.

2.3.3 Post-Driven Chain Link Fencing

Temporary post-driven fencing must be galvanized chain link fencing [1.8 m 6 feet] [2.4 m8 feet] high supported by an tightly secured to galvanized steel posts driven below grade. Fence posts must be located on minimum 3 meter 10 foot centers. Posts may be set in various surfaces such as sand, soil, asphalt or concrete as necessary. Chain link fencing must remain rigid and taut with a minimum of 90.7 kg 200 pounds of force exerted on it from any direction with less than 100 mm 4 inches of deflection. Completely remove fencing and posts at the completion of construction and restore surfaces disturbed or damaged to its original condition. Locate

and identify underground utilities prior to setting fence posts. Equip fence with a lockable gate. Gate must remain locked when construction personnel are not present.

2.4 TEMPORARY WIRING

Provide temporary wiring in accordance with EM 385-1-1 Section 11, NFPA 241 and NFPA 70. Include monthly inspection and testing of all equipment and apparatus.

2.5 BACKFLOW PREVENTERS

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NOTE: Include the following for all projects connecting to a potable water supply.

Consider using a lead free, brass body backflow preventer assembly on water lines 50 mm 2 inches or smaller. For water lines greater than 50 mm 2 inches, consider using a cast-iron body backflow preventer assembly.

Coordinate with Base Utilities/PWD for any approved list of backflow preventers and edit accordingly. Add any specific testing or certification requirements to Part 3 Article for Backflow Preventers.

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Certificate of Full Approval from FCCCHR List, University of Southern California, attesting that the design, size and make of each backflow preventer has satisfactorily passed the complete sequence of performance testing and evaluation for the respective level of approval. Certificate of Provisional Approval is not acceptable.

Reduced pressure principle type conforming to the applicable requirements AWWA C511. Provide backflow preventers complete with [68 kg][150 pound] [_____] flanged [cast iron],[ductile iron,] [bronze,][brass] mounted gate valve [and strainer], [304][_____] stainless steel or bronze, internal parts.

PART 3 EXECUTION

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NOTE: Delete inapplicable paragraphs, selecting desired options for electricity, water, gas, heating and ventilating, sanitary, and fire protection facilities.

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3.1 EMPLOYEE PARKING

Construction Contract employees must park privately owned vehicles in an area designated by the Contracting Officer. Employee parking must not interfere with existing and established parking requirements of the Government installation.

3.2 AVAILABILITY AND USE OF UTILITY SERVICES

3.2.1 Temporary Utilities

Provide temporary utilities required for construction. Materials may be new or used, must be adequate for the required usage, not create unsafe conditions, and not violate applicable codes and standards.

3.2.2 Payment for Utility Services

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NOTE: Use the following paragraphs related to payment of utilities for Army and Navy projects only. NASA does not normally charge for the use of utilities.

Coordinate this paragraph with the Contracting Officer. Coordinate with FAR 52.236-14 Availability and Use of Utility Services. Choose one of the following options. For NAVFAC, delete this set or paragraphs if utility service is covered in a paragraph "Utilities at (_____)"; used for some stations on a regional basis.

Government utilities listed in this paragraph may be furnished, if available without interfering with Government needs. These services will not be made free of charge except: (1) on Air Force projects; (2) on other projects when administrative costs exceed the value of the services; or (3) when otherwise advantageous to the Government. Indicate the point at which the Government will deliver each utility specified and show pertinent data such as voltage, L/min gal/min, and pipe sizes on the general layout plan or other appropriate drawing. Information regarding the types of utilities available, the rates, the points of connection' and the quantities available should be obtained from the Government.

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a. The Government will make all reasonably required utilities available from existing outlets and supplies, as specified in the Contract. Unless otherwise provided in the Contract, the amount of each utility service consumed will be charged to or paid at prevailing rates charged to the Government or, where the utility is produced by the Government, at reasonable rates determined by the Contracting Officer. Carefully conserve utilities furnished without charge.

b. Reasonable amounts of the following utilities will be made available [without charge.] [at the prevailing rates.] [at the following rates:]

Utility Services		
	Cost ($) per	Unit
Electricity		

Utility Services		
Potable Water		
Salt Water		
Compressed Air		
Steam		
Natural Gas		
Sanitary Sewer		

c. The point at which the Government will deliver such utilities or services and the quantity available is [as indicated][must be coordinated with the Contracting Officer]. Pay all costs incurred in connecting, converting, and transferring the utilities to the work. Make connections, including [providing backflow-preventing devices on connections to domestic water lines;] [providing meters;] and providing transformers; and make disconnections. Under no circumstances will taps to base fire hydrants be allowed for obtaining domestic water.

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NOTE: If constraints prevent the Government from providing utilities, include the following paragraph and delete prior paragraphs applicable to provision of utilities by the Government.

****

d. The Contractor must provide their own utilities.

3.2.3 Meters and Temporary Connections

Provide and maintain necessary temporary connections, distribution lines, and meter bases (Government will provide meters) required to measure the amount of each utility used for the purpose of determining charges. Notify the Contracting Officer, in writing, 5 working days before final electrical connection is desired so that a utilities contract can be established. The Government will provide a meter and make the final hot connection after inspection and approval of the Contractor's temporary wiring installation. Do not make the final electrical connection.

3.2.4 Advance Deposit

An advance deposit for utilities consisting of an estimated month's usage or a minimum of $50.00 will be required. The last monthly bills for the fiscal year will normally be offset by the deposit and adjustments will be billed or returned as appropriate. Services to be rendered for the next fiscal year, beginning 1 October, will require a new deposit. Notification of the due date for this deposit will be mailed prior to the end of the current fiscal year.

3.2.5 Final Meter Reading

Before completion of the work and final acceptance of the work by the Government, notify the Contracting Officer, in writing, 5 working days before termination is desired. The Government will take a final meter

reading, disconnect service, and remove the meters. Then remove all the temporary distribution lines, meter bases, and associated appurtenances. Pay all outstanding utility bills before final acceptance of the work by the Government.

[3.2.6 Utilities at Special Locations

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NOTE: The following set of paragraphs are tailored for use on NAVY projects only.
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NOTE: For NAVFAC projects choose one of the following options. The first subparagraph is tailored for use on NAVFAC LANT projects only. For the first option, in the first set of brackets, insert the name of the activity to which application should be made. Include the second bracketed expression for projects located at MCAS Cherry Point.
****

a. [Reasonable amounts of utilities will be made available at the prevailing Government rates. These rates may be obtained upon application to the Commanding Officer, [_____], by way of the Contracting Officer. Make connections, provide transformers and meters, and make disconnections; and provide backflow preventer devices on connections to domestic water lines. [Neither potable water nor sanitary facilities will be available at the main Contractor laydown area at Marine Corps Air Station (MCAS), Cherry Point, NC.]]

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NOTE: Use the following option for projects located in Argentina and the Azores and for Air Force projects in the NAVFAC Atlantic Area of Responsibility. Use this paragraph for other activities only when approved by the activity.
****

[b. Reasonable amounts of utilities will be made available without charge. Make connections, provide transformers and meters, and make disconnections; and provide backflow preventer devices on connections to domestic water lines. Under no circumstances will taps to base fire hydrants be allowed for obtaining domestic water.]

****
NOTE: Use the following option only for MCON funded and non-appropriated funds projects at Marine Corps Base, Camp Lejeune and Marine Corps Air Station (Helicopter (H)), New River.
****

c. [Reasonable amounts of utilities will be made available at the prevailing Government rates and may be obtained upon application to the Base Maintenance Officer, Bldg. 1202, Marine Corps Base, Camp Lejeune. A refundable security deposit to the Resident Officer in Charge of Construction must be made prior to application for services. Provide transformers, meter bases, electrical service poles and drops for electrical services, and backflow preventer devices on

connections to domestic water lines. Final taps and tie-ins to the Government utility grid will be made by Base Maintenance who will also provide and seal a 120 or 208 volt, three-wire kWh meter. Tap-in cost, if any, is the responsibility of the Contractor. Tampering or movement of a sealed meter without notification to base maintenance is grounds for discontinuance of electrical service. Provide larger meters required if they are not available from the Government. The Contractor is responsible for the cost of utility services required until the date of Government acceptance. Under no circumstances will taps to base fire hydrants be allowed for obtaining domestic water.]

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NOTE: The following set of subparagraphs are tailored for use on NAVFAC PAC projects only. Include the bracketed options as applicable.

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[3.2.6.1 Utilities at Guam by Contractor for Special Projects

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NOTE: Use this subparagraph for projects in Guam.

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Contact the Government of Guam for water and electricity.

][3.2.6.2 Utility Services at Midway

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NOTE: Use the following subparagraphs for projects at Midway.

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a. Potable water is rationed during dry periods and not available for construction purposes during the months of June and July.

b. Electrical power available, primary voltage is 2400 volt 3 phase, 3 wire, 60 cycle AC. Secondary voltages may be 120/208 or 120/240 volts.

c. Provide new meters for potable water, brackish water and electricity. The cost of utility services furnished may be reduced by the cost the Government would normally pay for comparable meters if, at the end of the job, the meters are delivered to the Government in good condition.

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NOTE: The following set of paragraphs are tailored for use on NAVFAC FE projects only. Include the bracketed options as applicable.

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[3.2.7 Utility Services for Diego Garcia Projects

****

NOTE: Use the following paragraphs for Diego Garcia projects. Contact the local Public Works office and insert the prevailing utility rates at the time of the project.

****

a. Potable water will be made available to Contractor's office and housing. The prevailing rate for potable water is [$_____] per 3800 L thousand gallons.

b. No charge for brackish water.

c. Electrical power available is primary, 2400 volt 3 phase, 3 wire, 60 cycle AC, secondary voltages may be 120/208 or 120/240 volts. The prevailing rate for electricity is [$_____] per kilowatt hour (KWH).

d. Sewage costs at [$_____] per 3800 L KGAL.

e. Provide new meters for potable water and electricity. The cost of utility services furnished may be reduced by the cost the Government would normally pay for comparable meters if, at the end of the job, the meters are delivered to the Government in good condition.

[3.2.7.1 Contractor-Owned and Operated Radio Telecommunications

A transmitter/receiver and antenna may be erected upon approval by the Contracting Officer. Submit for approval, 30 calendar days prior to the use of the equipment, the type of radio equipment power and band width of the equipment.

][3.2.7.2 Off-Island

The Government will provide military message communication from Diego Garcia at no cost. The Contractor is responsible for the cost of retransmitting messages through commercial sources. Process messages through the Contracting Officer. Messages will be screened and limited use of communication facilities will be permitted. Private messages will be permitted only for emergencies. The Navy voice communication system is no longer available for use. A local vendor provides commercial voice and teletype services for [$_____] per minute.

]]3.2.8 Utility Services for Wake Island

****

NOTE: Use the following paragraphs for Wake Island projects. Contact the local Public Works office and insert the prevailing utility rates at the time of the project.

****

[a. Potable water may not be available for construction during dry periods. Desalinized water available during dry periods at [$_____] per day for 114-150 kL 30,000-40,000 gallons per day.

b. Available primary voltage is 4160 volts, 3 phase, 3 wire, 60 cycle. Secondary voltage is 120/208 volts, 3 phase, 60 cycle.]

[3.2.9 Telephones at Midway, Wake, and Diego Garcia

****

NOTE: Use the following paragraph for Midway, Wake Island, and Diego Garcia projects only. Contact the

local Public Works office and insert the prevailing utility rates at the time of the project.
****

On-Island service may be obtained if lines are available. Make arrangements through the Contracting Officer. The prevailing rate for cable or wireless is [$_____] per phone. There is no charge for on-island telephone service. [Current rates are [$_____] per month for each private telephone line plus an installation charge of [$_____] for each instrument and [$_____] per month for two-party lines plus [$_____] per month for each extension. Pay for the cost of the wiring on runs in excess of two spans]. Long distance services are usually available at commercial rates. The Navy Radio Communication System or Defense Switch Network will not be available for use. [Limited teletypewriter circuit service is available.]

]3.2.10 Electricity

****
NOTE: The following paragraphs are tailored for use on NASA projects. Use this paragraph and the following "Water"paragraphs for NASA projects only. Add prevailing rates if these utilities are not furnished by the Government.
****

Provide connections, sized to provide service required for power and lighting. Locate feeder and branch wiring with area distribution boxes so that power is available throughout the project site by use of power cords. [120/240][and][480] electrical volt feeder service is available. Provide lighting as required for safe and secure operations. Electricity used will [not]be furnished by the Government. [Maximum power supplied by the Government will be [_____].]

3.2.11 Water

Make connections to existing facilities to provide water for construction purposes. Water used will[not] be furnished by the Government.

3.2.12 Sanitation

Provide and maintain within the construction area minimum field-type sanitary facilities in accordance with EM 385-1-1 Section 02. Locate the facilities behind the construction fence or out of the public view. Clean units and empty wastes at least once a week or more frequently into a municipal, district, or station sanitary sewage system, or remove waste to a commercial facility. Obtain approval from the system owner prior to discharge into a municipal, district, or commercial sanitary sewer system. Penalties or fines associated with improper discharge will be the responsibility of the Contractor. Coordinate with the Contracting Officer and follow station regulations and procedures when discharging into the station sanitary sewer system. Maintain these conveniences at all times. Include provisions for pest control and elimination of odors. Government toilet facilities will not be available to Contractor's personnel.

3.2.13 Telephone

Make arrangements and pay all costs for telephone facilities desired.

3.2.14 Fire Protection

Provide temporary fire protection equipment for the protection of personnel and property during construction. Remove debris and flammable materials [daily][weekly][monthly] to minimize potential hazards.

3.3 STATION OPERATION AFFECT ON CONTRACTOR OPERATIONS

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NOTE: Use this paragraph on all projects involving potential conflicts with operating conditions other than utilities or where the work must be pursued in a particular sequence. Clearly detail the permissible extent of sequencing or duration of interruptions to station operation. Obtain information from the Government.

****

[ ].

[3.3.1 Restricted Access Areas

The Government will monitor work in areas [listed below][indicated]. Notify Contracting Officer at least 14 calendar days prior to starting work in these areas.

[ ].

]3.4 TRAFFIC PROVISIONS

3.4.1 Maintenance of Traffic

a. Conduct operations in a manner that will not close a thoroughfare or interfere with traffic on railways or highways except with written permission of the Contracting Officer at least 15 calendar days prior to the proposed modification date, and provide a Traffic Control Plan for Government approval detailing the proposed controls to traffic movement for approval. The plan must be in accordance with State and local regulations and the MUTCD, Part VI. [Make all notifications and obtain all permits required for modification to traffic movements outside Station's jurisdiction.]. Contractor may move oversized and slow-moving vehicles to the worksite provided requirements of the highway authority have been met.

b. Conduct work so as to minimize obstruction of traffic, and maintain traffic on at least half of the roadway width at all times. Obtain approval from the Contracting Officer prior to starting any activity that will obstruct traffic.

c. Provide, erect, and maintain, at Contractor's expense, lights, barriers, signals, passageways, detours, and other items, that may be required by the Life Safety Signage, overhead protection authority having jurisdiction.

d. Provide cones, signs, barricades, lights, or other traffic control devices and personnel required to control traffic. Do not use foil-backed material for temporary pavement marking because of its

potential to conduct electricity during accidents involving downed power lines.

3.4.2 Protection of Traffic

Maintain and protect traffic on all affected roads during the construction period except as otherwise specifically directed by the Contracting Officer. Measures for the protection and diversion of traffic, including the provision of watchmen and flagmen, erection of barricades, placing of lights around and in front of equipment the work, and the erection and maintenance of adequate warning, danger, and direction signs, will be as required by the State and local authorities having jurisdiction. Provide self-illuminated (lighted) barricades during hours of darkness. Brightly-colored (orange) vests are required for all personnel working in roadways. Protect the traveling public from damage to person and property. Minimize the interference with public traffic on roads selected for hauling material to and from the site. Investigate the adequacy of existing roads and their allowable load limit. Contractor is responsible for the repair of damage to roads caused by construction operations.

3.4.3 Rush Hour Restrictions

Do not interfere with the peak traffic flows preceding and during normal operations[for [_____]] without notification to and approval by the Contracting Officer.

3.4.4 Dust Control

Dust control methods and procedures must be approved by the Contracting Officer. Coordinate dust control methods with 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS.

3.5 REDUCED PRESSURE BACKFLOW PREVENTERS

****

NOTE: Include the following for all projects connecting to a potable water supply.

Coordinate with Base Utilities/PWD for any specific testing or certification requirements and edit accordingly.

The following Article includes tailoring for NAVFAC Hawaii projects - include the last 3 sentences containing reference to NAVFAC Hawaii Water Utilities for NAVFAC Hawaii projects only.

****

Provide an approved reduced pressure backflow prevention assembly at each location where the Contractor taps into the Government potable water supply.

Perform backflow preventer tests using test equipment, procedures, and certification forms conforming to those outlined in the latest edition of the Manual of Cross-Connection Control published by the FCCCHR Manual. Test and tag each reduced pressure backflow preventer upon initial installation (prior to continued water use) and[quarterly][monthly][ ] thereafter. Tag must contain the following information: make, model,

serial number, dates of tests, results, maintenance performed, and signature of tester. Record test results on certification forms conforming to requirements cited earlier in this paragraph. After installation, NAVFAC Hawaii Water Utilities will test and certify backflow preventer. If the temporary water connection needs to be moved to another location during construction, the Contractor must notify the Contracting Officer in writing a minimum of 5 working days prior to movement. The relocated backflow preventer will be re-tested and re-certified by NAVFAC Hawaii Water Utilities.

3.6 CONTRACTOR'S TEMPORARY FACILITIES

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NOTE: The first paragraph below is tailored for use on NASA projects only. For NASA projects use the first paragraph below and insert NASA center regulatory document number and time period compliance.

****

Contractor-owned or -leased trailers must be identified by Government assigned numbers. Size and location of the number will comply with [_____]. Apply the number to the trailer within [14][_____] calendar days of notification, or sooner, if directed by the Government. Temporary facilities must meet requirements as identified in EM 385-1-1 Section 04.

Contractor is responsible for security of their property. Provide adequate outside security lighting at the temporary facilities. Trailers must be anchored to resist high winds and meet applicable state or local standards for anchoring mobile trailers. Coordinate anchoring with EM 385-1-1 Section 04. The Contract Clause entitled "FAR 52.236-10, Operations and Storage Areas" and the following apply:

3.6.1 Administrative Field Offices

Provide and maintain administrative field office facilities within the construction area at the designated site. Government office and warehouse facilities will [not] be available to the Contractor's personnel.

In the event a new building is constructed for the temporary project field office, it must be a minimum 3.6 m 12 feet in width, 5 m 16 feet in length and have a minimum of 2.1 m 7 feet headroom. Equip the building with approved electrical wiring, at least one double convenience outlet and the required switches and fuses to provide 110-120 volt power. Provide a work table with stool, desk with chair, two additional chairs, and one legal size file cabinet that can be locked. The building must be waterproof, supplied with a heater, have a minimum of two doors, electric lights, a telephone, a battery-operated smoke detector alarm, a sufficient number of adjustable windows for adequate light and ventilation, and a supply of approved drinking water. Provide approved sanitary facilities. Screen the windows and doors and provide the doors with deadbolt type locking devices or a padlock and heavy-duty hasp bolted to the door. Door hinge pins must be non-removable. Arrange the windows to open and to be securely fastened from the inside. Protect glass panels in windows by bars or heavy mesh screens to prevent easy access. In warm weather, provide air conditioning capable of maintaining the office at 50 percent relative humidity and a room temperature 11 degrees C 20 degrees F below the outside temperature when the outside temperature is 35 degrees C 95 degrees F. Unless otherwise directed by the Contracting Officer, remove

the building from the site upon completion and acceptance of the work.

[3.6.2 Quality Control Manager Records and Field Office

****
NOTE: Include this paragraph when project has separate QC Manager and project Superintendent. Edit to suit the size and location of the project.
****

Provide on the jobsite an office with approximately [9][18][_____] square meter [100][200][_____] square feet of useful floor area for the exclusive use of the QC Manager. Provide a weathertight structure with adequate [heating and cooling,] toilet facilities, lighting, ventilation, a 1200 by 2400 mm 4 by 8 foot plan table, a standard size office desk and chair, computer station, and working communications facilities. [Provide either a 1,500 watt radiant heater and a window-mounted air conditioner rated at 2.6 kW 9,000 Btus minimum or a window-mounted heat pump of the same minimum heating and cooling ratings.] Provide a door with a cylinder lock and windows with locking hardware. Make utility connections. Locate [as directed][where indicated]. File quality control records in the office and make available at all times to the Government. After completion of the work, remove the entire structure from the site.

]3.6.3 Storage Area

Construct a temporary 1.8 m 6 foot high chain link fence around trailers and materials. Include plastic strip inserts, colored [green][brown], so that visibility through the fence is obstructed. Fence posts may be driven, in lieu of concrete bases, where soil conditions permit. Do not place or store trailers, materials, or equipment outside the fenced area unless such trailers, materials, or equipment are assigned a separate and distinct storage area by the Contracting Officer away from the vicinity of the construction site but within the installation boundaries. Trailers, equipment, or materials must not be open to public view with the exception of those items which are in support of ongoing work on the current day. Do not stockpile materials outside the fence in preparation for the next day's work. Park mobile equipment, such as tractors, wheeled lifting equipment, cranes, trucks, and like equipment within the fenced area at the end of each work day.

Keep fencing in a state of good repair and proper alignment. Grassed or unpaved areas, which are not established roadways, and will be traversed with construction equipment or other vehicles, must be covered with a layer of gravel as necessary to prevent rutting and the tracking of mud onto paved or established roadways, should the Contractor elect to traverse them with construction equipment or other vehicles. Mow and maintain grass located within the boundaries of the construction site for the duration of the project. Grass and vegetation along fences, buildings, under trailers, and in areas not accessible to mowers must be edged or trimmed neatly.

3.6.4 Supplemental Storage Area

Upon request, and pending availability, the Contracting Officer will designate another or supplemental area for the use and storage of trailers, equipment, and materials. This area may not be in close proximity of the construction site but will be within the installation

boundaries. Maintain the area in a clean and orderly fashion and secured if needed to protect supplies and equipment. Utilities will not be provided to this area by the Government.

3.6.5 Appearance of Trailers

a. Trailers must be roadworthy and comply with all appropriate state and local vehicle requirements. Trailers which are rusted, have peeling paint or are otherwise in need of repair will not be allowed on Installation property. Trailers must present a clean and neat exterior appearance and be in a state of good repair.

b. Maintain the temporary facilities. Failure to do so will be sufficient reason to require their removal at the Contractor's expense.

3.6.6 Trailers or Storage Buildings

****
NOTE: This paragraph is tailored for use on NAVY projects only.
****

a. Trailers or storage buildings will be permitted, where space is available, subject to the approval of the Contracting Officer.

b. Mount a sign not smaller than 600 by 600 mm 24 by 24 inches on the trailer or building that shows the company name, business phone number, emergency phone number and conforms to the following requirements and sketch:

Graphic panel	Aluminum, painted blue
Copy	Screen painted or vinyl die-cut, white
Typeface	Univers 65 u/lc
See Sketch No. 01500 (graphic).	

3.6.7 Safety Systems

Protect the integrity of all installed safety systems or personnel safety devices. Obtain prior approval from the Contracting Officer if entrance into systems serving safety devices is required. If it is temporarily necessary to remove or disable personnel safety devices in order to accomplish Contract requirements, provide alternative means of protection prior to removing or disabling any permanently installed safety devices or equipment and obtain approval from the Contracting Officer.

[3.6.8 Special Storage Requirements

****
NOTE: The following subparagraphs are tailored for use on Navy projects only to designate any special storage requirements. Coordinate with the supporting local NAVFAC FEAD or ROICC office to determine these special requirements and select the appropriate bracketed options, or insert other requirements, as applicable. If no special storage

requirements apply to the project delete this bracketed set of subparagraphs in its entirety.
****

The following special storage requirements apply:

[3.6.8.1 Storage Size and Location

The [roofed][enclosed][open] site available for storage must be [confined to the indicated operations area][within 300 m 1,000 feet of the operations area][as indicated]. The storage area will be approximately [____] square meter square feet.

][3.6.8.2 Storage in Existing Buildings

The Contractor will be working [in][around] existing building[s]; the storage of material [will be allowed in a [____] square meter square foot area][where indicated][will not be allowed in the building[s]]. [Provide 2.4 m 8 foot high-security fence with a lockable gate around the storage area. Remove at the completion of work.]

]]3.6.9 Weather Protection of Temporary Facilities and Stored Materials

Take necessary precautions to ensure that roof openings and other critical openings in the building are monitored carefully. Take immediate actions required to seal off such openings when rain or other detrimental weather is imminent, and at the end of each workday. Ensure that the openings are completely sealed off to protect materials and equipment in the building from damage.

3.6.9.1 Building and Site Storm Protection

When a warning of gale force winds is issued, take precautions to minimize danger to persons, and protect the work and nearby Government property. Precautions must include, but are not limited to, closing openings; removing loose materials, tools and equipment from exposed locations; and removing or securing scaffolding and other temporary work. Close openings in the work when storms of lesser intensity pose a threat to the work or any nearby Government property.

[3.7 GOVERNMENT FIELD OFFICE

****
NOTE: Use this paragraph for ARMY, AIR FORCE, and NASA. Do not use for NAVY projects. This paragraph is tailored for ARMY, AIR FORCE, and NASA.
****

3.7.1 Resident Engineer's Office

Provide the [Government Resident Engineer] [Government Engineer] with an office, approximately 19 square meters 200 square feet in floor area, located where directed and providing space heat, [air conditioning unit,] electric light and power, and toilet facilities consisting of one lavatory and one water closet complete with connections to water and sewer mains. Provide a mail slot in the door or a lockable mail box mounted on the surface of the door. Include a 1200 by 2400 mm 4 by 8 foot plan table,[computer work space] a standard size office desk and chair, and telephone.

At completion of the project, the office will remain the property of the Contractor and be removed from the site. Utilities must be connected and disconnected in accordance with local codes and to the satisfaction of the Contracting Officer. Compliance with safety and appearance requirements for temporary facilities stated in previous paragraphs is required.

3.7.2 Trailer-Type Mobile Office

The option is available to, furnish and maintain a trailer-type mobile office acceptable to the Contracting Officer to meet the requirements of the minimum facilities specified above. Securely anchor the trailer to the ground at all four corners to guard against movement during high winds. Coordinate requirements for proper anchoring with EM 385-1-1 Section 04.

]3.8 PLANT COMMUNICATIONS

Whenever the individual elements of the plant are located so that operation by normal voice between these elements is not satisfactory, install a satisfactory means of communication, such as telephone or other suitable devices and make available for use by Government personnel.

3.9 TEMPORARY PROJECT SAFETY FENCING

As soon as practicable, but not later than 15 days after the date established for commencement of work, furnish and erect temporary project safety fencing at the work site. Maintain the safety fencing during the life of the Contract and, upon completion and acceptance of the work, remove from the work site.

3.10 DUMPSTERS

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NOTE: This Aryicle is tailored for use on NAVFAC SE projects only. Use the bracketed item where visibility to the public is an issue.

****

Equip dumpsters with a secure cover and paint the standard installation color. Keep dumpster closed, except when being loaded with trash and debris.[Locate dumpsters behind the construction fence or out of the public view.] Empty site dumpsters at least once a week, or as needed to keep the site free of debris and trash. If necessary, provide 200 liter 55 gallon trash containers painted the darker installation color to collect debris in the construction site area. For large demolitions, large dumpsters without lids are acceptable, but must not have debris higher than the sides before emptying.

3.11 CLEANUP

Remove construction debris, waste materials, packaging material and the like from the work site daily. Any dirt or mud which is tracked onto paved or surfaced roadways must be cleaned away. Store all salvageable materials resulting from demolition activities within the fenced area described above or at the supplemental storage area. Neatly stack stored materials not in trailers, whether new or salvaged.

3.12 RESTORATION OF STORAGE AREA

Upon completion of the project remove the bulletin board, signs, barricades, haul roads, and all other temporary products from the site. After removal of trailers, materials, and equipment from within the fenced area, remove the fence. Restore areas used during the performance of the Contract to the original or better condition. Remove gravel used to traverse grassed areas and restore the area to its original condition, including top soil and seeding as necessary.

-- End of Section --