

SECTION 01 50 00

TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS

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 within the text by the basic designation only.

AMERICAN WATER WORKS ASSOCIATION (AWWA)

AWWA C511 (2007) Standard for Reduced-Pressure Principle Backflow Prevention Assembly

FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (FCCCHR)

FCCCHR List (continuously updated) List of Approved Backflow Prevention Assemblies

FCCCHR Manual (10th Edition) Manual of Cross-Connection Control

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 241 (2022) Standard for Safeguarding Construction, Alteration, and Demolition Operations

NFPA 70 (2023; ERTA 7 2023; TIA 23-15) National Electrical Code

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 Safety -- Safety and Health Requirements Manual

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)

PL 93-523 (1974; A 1999) Safe Drinking Water Act

U.S. FEDERAL AVIATION ADMINISTRATION (FAA)

FAA AC 70/7460-1 (2016; Rev L; Change 2) Obstruction Marking and Lighting

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Submittals not having a "G" designation are for Contractor Quality Control or Designer of Record approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Construction Site Plan; G  
Traffic Control Plan; G  
Temporary Utility Connections Plan; G

1.3 CONSTRUCTION SITE PLAN

Prior to the start of work, submit 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

Certificate of Full Approval from FCCCHR List, 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 will not be acceptable.

1.4.1 Backflow Tester Certificate

Certification issued by the 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 any company participating in any other phase of this Contract.

1.4.2 Backflow Prevention Training Certificate

Certification recognized by the local authority that states the Contractor has completed at least 10 hours of training in backflow preventer installations. The certificate must be current. Training and certification can be obtained from the following sources:

- a. Kyuuusuikouji Gijutsu Koshin Zaidan; <https://www.kyuukou.or.jp/>
- b. Zenkoku Kensetsu Kenshu Center; <https://www.jctc.jp/>
- c. Tester Training Course, Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California;  
<https://fccchr.usc.edu/tester.html>

1.5 TYPHOON AND STORM PREPARATIONS

In order to minimize damage to public properties and prevent personal injury, the following actions shall be taken upon declaration of the typhoon conditions described below. Ensure that the construction sites are well-prepared for protection from the damages of heavy rain and strong winds. Develop and establish the necessary procedures to be taken for storm preparation. In Part 1 of the Accident Prevention Plan, provide emergency phone numbers and addresses where at least three Contractor officials may be reached and notified in the event that an immediate typhoon alert is declared.

#### 1.5.1 Tropical Cyclone Conditions of Readiness (TCCOR)

- a. TCCOR STORM WATCH: The winds are not forecast to exceed 50 knots (58 mph/26 m/s) sustained (the criteria for "destructive winds") but there still exists a probability of high winds due to the proximity of the storm. High winds may include gusts exceeding 50 knots and/or sustained winds meeting TCCOR 1 Caution criteria. The storm is also close enough to the area that a heightened alert status is necessary in order to rapidly establish elevated TCCOR conditions should the storm deviate from the forecast track. Personnel should follow Standard Operating Procedures for TCCOR Storm Watch and stay alert for any changes to TCCOR status.

When wind gusts of 30 knots (35 mph/16 m/s) or greater are forecast, the Contractor shall be required to perform general area cleanup and monitor TCCOR levels.

When a local storm warning has been issued, the Contractor competent person and/or SSHO shall determine whether it is necessary to implement manufacturer recommendations for securing the equipment to include Weight Handling Equipment (WHE).

Contractor reviews project site storm preparation plans and discuss plan of action with Contracting Officer's Representative.

- b. TCCOR 4: Winds of 50 knots (58 mph/26 m/s) sustained or greater are possible within 72 hours.

When wind gusts of 30 knots (35 mph/16 m/s) or greater are forecast, the Contractor will be required to perform general area cleanup and monitor TCCOR levels.

Cranes shall not be operated when wind speeds at the site attain the maximum wind velocity based on the surface/load ratio recommendations of the manufacturer.

At winds greater than 20 mph (17 knots/9 m/s), the operator, rigger, lift supervisor, and SSHO shall cease all crane operations, evaluate conditions and determine if the lift can proceed with Contracting Officer's Representative acceptance.

All elevated work above 6 ft (1.8 m) shall be risk assessed by the Contractor's competent person and/or SSHO and discussed with the Contracting Officer's Representative for acceptance.

- c. TCCOR 3: Winds of 50 knots (58 mph/26 m/s) sustained or greater are possible within 48 hours.

- (1) Clean and remove all loose debris and waste including scrap wood and metal, empty barrels, and construction form materials no longer required on the job site, to a safe area for proper disposition.

- (2) Secure, tie down, and anchor construction field office and storage facilities, scaffolding, concrete forms and supports, doors, windows, opening covers, stored lumber and other materials, mechanized construction equipment, temporary power lines and supports, and other items that may be blown away or that might

cause injury or damage.

- (3) Inspect all excavation and trenching work in process, and provide necessary temporary drainage and proper protection and shoring for excavation sides and openings, in order to prevent damage to public roads and facilities by slides or flooding. Accumulation of water in the excavation of structure foundation work shall be controlled and minimized.
- (4) Inspect scaffolding or work platforms for loose materials, planking, etc. that could become airborne projectile hazards and secure scaffold netting, tarps, etc. from wind loads.
- d. TCCOR 2: Winds of 50 knots (58 mph/ 26 m/s) sustained or greater are possible within 24 hours.  
  
Work required at remote areas such as off-shore facilities or high elevations shall cease immediately and the workers shall be evacuated to a safe area. During TCCOR 2, the Contractor shall continue the actions described in TCCOR 3 above and the construction site shall be inspected for storm preparation by the Contracting Officer's Representative. The Contractor shall request an inspection by calling the Contracting Officer's Representative at the appropriate Japan Engineer District field office.
- e. TCCOR 1: Winds of 50 knots (58 mph/26 m/s) sustained or greater are possible within 12 hours.  
  
All work shall cease immediately and the Contractor's representative shall insure that all necessary storm preparations, including the items listed below, are completed.
  - (1) All electrical circuits and equipment including temporary power lines are cut off and secured against unauthorized use.
  - (2) Gas cylinders, hot work equipment, and flammable materials properly stored at a safe area.
  - (3) No igniting source is present.

- (4) All workers have been evacuated from the construction site. When TCCOR 1 is declared without the normal progression through TCCOR 3 and/or 2, the Contractor shall take the actions listed in TCCOR 3 above, and also follow the procedures described herein.
- f. TCCOR 1 Caution: Winds of 35 to 49 knots (39/17 to 56/25 mph/ m/s) sustained are occurring.  
  
Construction Sites Secured.
- g. TCCOR 1 Emergency: Winds of 50 knots (58 mph/26 m/s) sustained or greater are occurring.  
  
Construction Sites Secured.
- h. TCCOR 1 Recovery: Winds of 50 knots (58 mph/26 m/s) sustained or greater are no longer forecast to occur. Strong winds may still exist.

Installation personnel begin storm damage assessments and clean up.

- i. TCCOR Storm Clear: The storm is over and not forecast to return. Used to inform personnel that the threat of the storm is over, but the storm damage could still present a danger.

Contractor may resume normal activities. The construction site shall be investigated for all damage caused by the typhoon or high winds, and the result of the investigation shall be furnished in verbal or written form to the Contracting Officer's Representative as soon as practicable.

Complete and submit PODWP 134 Typhoon Damage Report for storm damages or negative report of damage to Emergency Management, Construction Division, and Safety Office.

- j. TCCOR All Clear: The storm is over and not forecast to return, and recovery efforts are complete.

Resume normal activities.

## PART 2 PRODUCTS

### 2.1 TEMPORARY SIGNAGE

#### 2.1.1 Bulletin Board

Immediately upon beginning of work, provide a weatherproof glass-covered bulletin board not less than 915 by 1220 mm in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the Contract, Wage Rate Information poster, and other information approved by the Contracting Officer. Locate the bulletin board at the project site in a conspicuous place easily accessible to all employees, as approved by the Contracting Officer.

#### 2.1.2 Project and Safety Signs

Provide [one (1)] project sign and [one (1)] safety sign fabricated to size and design as shown in Attachment 01 50 00-A. The signs shall be rigidly formed and erected at location designated by the Contracting Officer prior to commencement of work. A blue-line drawing of different letter sizes and style shall be made available by the Contracting Officer upon request. Prior to painting the sign, submit for approval a sketch, similar to diagram shown in Attachment 01 50 00-A, indicating the actual information for the project. The sketch shall indicate lettering dimensions and locations. The Corps of Engineers castle logo shall be painted red per Attachment 01 50 00-A. Correct the data required by the safety sign daily, with light-colored metallic or non-metallic numerals. No separate payment shall be made for the sign, and all costs in connection therewith shall be included in the Contract price for the project. The sign shall be subject to the approval of the Contracting Officer. 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. Upon completion of work under this Contract, the signs shall be removed from the job site and shall remain the property of the Contractor.

## 2.2 TEMPORARY TRAFFIC CONTROL

### 2.2.1 Haul Roads

Construct access and haul roads necessary for proper prosecution of the work under this Contract. Construct with suitable grades and widths; sharp curves, blind corners, and dangerous cross traffic are to be avoided. Provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic. The method of dust control must be adequate to ensure safe operation at all times. Location, grade, width, and alignment of construction and hauling 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. 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 barricades will be required. Securely place barricades clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

### 2.2.3 Temporary Wiring

Provide temporary wiring in accordance with NFPA 241 and NFPA 70. Include frequent inspection of all equipment and apparatus.

### 2.2.4 Backflow Preventers

Reduced pressure principle type conforming to the applicable requirements AWWA C511. Provide backflow preventers complete with 65 kg flanged, mounted gate valve and strainer, stainless steel or bronze, internal parts. After installation conduct Backflow Preventer Tests and provide test reports verifying that the installation meets the FCCCHR Manual Standards.

## PART 3 EXECUTION

### 3.1 EMPLOYEE PARKING

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

### 3.2 TEMPORARY BULLETIN BOARD

Locate the bulletin board at the project site in a conspicuous place easily accessible to all employees, as approved by the Contracting Officer.

### 3.3 AVAILABILITY AND USE OF UTILITY SERVICES

#### 3.3.1 Payment for Utility Services

The Government shall make all reasonably required utilities available to

the Contractor[ , without charge,] from existing outlets and supplies, as specified in the Contract. Carefully conserve any utilities.

### 3.3.2 Meters and Temporary Connections

At the Contractor's expense and in a manner satisfactory to the Contracting Officer, provide and maintain necessary temporary connections, distribution lines, and meter bases required to measure the amount of each utility used. Materials may be new or used, must be adequate for the required usage, not create unsafe conditions, and not violate applicable codes and standards. Submit a Temporary Utility Connections Plan for approval to the Contracting Officer, fifteen (15) working days before making temporary utility connections.

[

The Government shall

- [ Furnish the water meter]
- [ Furnish the electric meter]
- [ Furnish the backflow preventer]
- [ Install the water meter]
- [ Install the electric meter]
- [ Install the backflow preventer]

][

The Contractor shall

- [ Furnish the water meter]
- [ Furnish the electric meter]
- [ Furnish the backflow preventer]
- [ Install the water meter]
- [ Install the electric meter]
- [ Install the backflow preventer]

]

### 3.3.3 Advance Deposit

An advance deposit for utilities consisting of an estimated month's usage or a minimum of [6,000] JPY shall be required. Adjustments to the monthly bills shall be settled at the end of the fiscal year ending on 30 September. Services to be rendered for the next fiscal year, beginning 1 October, shall require a new deposit. Notification of the due date for the new deposit shall be mailed to the Contractor prior to the end of the previous fiscal year.

### 3.3.4 Final Meter Reading

Before completion of the work and final acceptance of the work by the Government, notify the Contracting Officer, in writing, five working days before termination is desired. A final reading shall be taken by the Government. Afterwards, remove all temporary distribution lines, meter bases, meters, and associated appurtenances.[ Pay all outstanding utility bills before final acceptance of the work by the Government.]

### 3.3.5 Sanitation

Provide and properly maintain temporary toilet facility for use of Contractor personnel. Government toilet facilities are not available to Contractor personnel. Toilet facility shall be constructed as required in EM 385-1-1 and by local installation regulations, where directed. Include provisions for pest control and elimination of odors. Upon completion of the Contract, dispose facility outside the limits of Government-controlled land and at Contractor's expense.

### 3.3.6 Electricity

The Contractor shall be responsible for all temporary connections required, as well as the removal of these temporary connections upon completion of the project. The Contractor's plan for temporary connections shall be submitted to the Contracting Officer Representative for approval prior to making any temporary connections.

Electrical power system frequencies for different installations are as follows:

- a. 50 Hertz (Hz): Camp Zama, Sagami Depot, Sagamihara Housing Area, Yokota Air Base, Commander Fleet Activities Yokosuka, Naval Air Facility Atsugi, Misawa Air Base, Camp Fuji, and Naval Support Facility Kamiseya.
- b. 60 Hertz (Hz): Marine Corps Air Station Iwakuni, Commander Fleet Activities Sasebo, and all of Okinawa.

### 3.3.7 Telephone and Data

Make arrangements and pay all costs for telephone facilities and data connections.

### 3.3.8 Obstruction Lighting of Cranes

Provide a minimum of 2 aviation red or high intensity white obstruction lights on temporary structures (including cranes) over 30 meter above ground level. Light construction and installation shall comply with FAA AC 70/7460-1. Lights shall be operational during periods of reduced visibility, darkness, and as directed by the Contracting Officer.

### 3.3.9 Fire Protection

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

## 3.4 TRAFFIC PROVISIONS

### 3.4.1 Maintenance of Traffic

- a. Conduct operations in a manner that will not close any thoroughfare or interfere in any way with traffic except with written permission of the Contracting Officer at least 30 calendar days prior to the proposed modification date, and provide a Traffic Control Plan detailing the proposed controls to traffic movement for approval. The plan must be in accordance with installation regulations. Coordinate with installation officials. Contractor may move oversized and slow-moving vehicles to the worksite once the requirements of the highway authority have been met. Include a schedule of planned road closures in the Initial Project Schedule.
- b. Conduct work so [there is no obstruction of traffic, and maintain traffic on the full roadway width at all times][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. At the Contractor's expense, provide, erect, and maintain: lights, barriers, signals, passageways, detours, and other items, that may be required by the Life Safety Signage overhead protection authority having jurisdiction.

#### 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. 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 any damage to roads caused by construction operations.

#### 3.4.3 Dust Control

Dust control methods and procedures must be approved by the Contracting Officer. Treat dust abatement on access roads with applications of calcium chloride, water sprinklers, or similar methods or treatment.

### 3.5 CONTRACTOR'S TEMPORARY FACILITIES

#### 3.5.1 Safety

Protect the integrity of any installed safety systems or personnel safety devices. If entrance into systems serving safety devices is required, the Contractor must obtain prior approval from the Contracting Officer. 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.

#### 3.5.2 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.

#### 3.5.3 Temporary Project Safety and Storage Area 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 and storage area fencing to control access by unauthorized people. Fencing shall be able to restrain a force of at least 114 kg. Safety and storage area fencing shall be [1.8 m high wire mesh fence with lockable gates and visibility screening (similar to tennis court screening)][2.5 to 3.0m high sheet metal fence (similar to construction fencing used throughout Japan)] [located around the perimeter of project work areas and the perimeter of Contractor lay-down areas].[ Use plastic panels or perforated steel sheets to improve visibility for vehicular traffic when erecting fencing within 3 meters of street corners.] The intent is to block (screen) public view of the construction, and prevent unauthorized

access to the site. Fence posts may be driven, in lieu of concrete bases, where soil conditions permit. Maintain the safety and storage area fencing during the life of the Contract and, upon completion and acceptance of the work, shall become the property of the Contractor and be removed from the work site.

#### 3.5.4 Storage Area

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 any given 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.

#### 3.5.5 Supplemental Storage Area

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

#### 3.5.6 Appearance of Trailers

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

#### 3.5.7 Maintenance of Storage Area

Keep fencing in a state of good repair and proper alignment. Grassed or unpaved areas, which are not established roadways, will 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; gravel gradation will be at the Contractor's discretion. Mow and maintain grass to a maximum height of 100 mm 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 will be edged or trimmed neatly.

#### 3.5.8 Security Provisions

Provide adequate outside security lighting at the Contractor's temporary facilities. The Contractor will be responsible for the security of its own equipment.

### 3.5.9 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.

#### 3.5.9.1 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.

## 3.6 GOVERNMENT FIELD OFFICE

The Contractor shall be responsible for providing and maintaining, in good condition, an office for the sole use of Government personnel, in a structure physically separated from the Contractor's site offices. Facility shall be furnished at a location designated and approved by the Contracting Officer, and available for use concurrent with availability of Contractor's site office or within 15 calendar days of Notice to Proceed, whichever occurs first. The office facility, including all furniture, equipment, and connections, shall remain the property of the Contractor and, upon completion of work under this Contract, shall be removed from the site by the Contractor and the site returned as nearly as practical to the original conditions.

Contractor shall provide two designated USACE parking spaces as close to the Government Field Office as practicable. The spaces shall not exceed 50 meters from the field office without written approval from the Contracting Officer.

### 3.6.1 Facility Requirements

Provide the Government an office with a minimum of [67 square meters (720 square feet)] in floor area, windows, a door with lockset individually keyed with two keys, and a battery operated smoke detector in each room. Provide batteries for the smoke detectors, and replace batteries in each smoke detector at least twice annually.

The walls and ceiling of the office shall be insulated. All windows shall be screened. Windows shall be openable and be securely fastened from the inside. Glass panels in windows shall be protected by bars or heavy mesh screens to prevent easy access to the facility through these panels. The office shall contain a minimum of eight (8) standard electrical outlets meeting local requirements and additionally provide for delivery of a minimum 3,000 Watts.

The office shall contain an integral toilet facility with western-type (with a push-type flush button) toilet fixture (bowl), which shall hold water in it at all times, and a wash basin.

The office facility shall contain a kitchenette type facility with a

countertop/work area with a minimum surface area of 55 cm (W) by 150 cm (L). A minimum of two electrical outlets (local current) shall be located adjacent to the countertop.

Hot water for all faucets shall be provided.

### 3.6.2 Furniture and Equipment

Furnish the office with the following furniture and equipment. All furnishing shall be new and manufactured by a recognized supplier of office equipment. All items shall be assembled, installed, and maintained by the Contractor.

- a. Two desks (minimum 80 cm by 150 cm) double pedestal with lockable drawers.
- b. Two desk chairs with arms: swivel tilt, hydraulic height-adjustable, medium back, fabric covered seat cushion, castored.
- c. One conference table (minimum 120 cm by 250 cm), with a minimum of six new arm-chairs, castored.
- d. Three file cabinets, capable of holding US letter-size documents, with a minimum five drawers each.
- e. Two bookcases with a minimum of five shelves each. Minimum dimensions are 120 cm (W) by 200 cm (H) by 30 cm (D).
- f. One clock: wall hung, quartz, 12 dial, battery powered.
- g. Plan racks capable of holding two full-size set of Contract plans.
- h. One dry-erase board with a minimum dimension of 1.5 m by 1.0 m. Dry erase markers (minimum four different colors) shall be provided and replaced as depleted.
- i. One microwave (minimum 0.028 cubic meter).
- j. One refrigerator (minimum 0.70 cubic meter).

### 3.6.3 Lighting Requirements

The office facility shall include suitable electric lighting to meet the minimum lighting requirements (luminance) of administrative areas as indicated in EM 385-1-1.

### 3.6.4 Heating/Cooling Requirements

Provide heating and cooling capable of maintaining an interior temperature of between 16 degrees Celsius and 25 degrees Celsius in all seasons. If applicable, use a fluorocarbon gas refrigerant with an Ozone Depletion Potential (ODP) of less than or equal to 0.05.

### 3.6.5 Drinking Water

Provide potable drinking water for the facility that meets or exceeds PL 93-523.

### 3.6.6 Data Connection

Provide network connectivity (ADSL, Cable or Fiber), one USACE-dedicated router and one switching hub, eight-5 m network cables, and eight power strips.

### 3.6.7 Maintenance

Provide maintenance and janitorial services, to include:

- a. Emptying of trash at least twice a week.
- b. Cleaning of the office, including the toilet facilities, weekly.
- c. Replenishment of liquid soap, toilet paper, and paper towels for daily use. Adequate quantity of these supplies shall be provided on-site and replaced as needed.

### 3.6.8 Security Requirements

The physical security of the Government personnel, property, and field office shall be the responsibility of the Contractor throughout the duration of the Contract.

If the project site is outside of the controlled area of an existing military installation, the Government field office shall have 30 meters of standoff from a fence enclosing the office and all parking or roads. Additional fencing, earth berms, concrete barriers, controlled access points, and similar security features shall be provided to limit access to the site and provide additional building standoff or security.

## 3.7 PLANT COMMUNICATION

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

## 3.8 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 any 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.

## 3.9 RESTORATION OF STORAGE AREA

Upon completion of the project remove the bulletin board, signs, barricades, haul roads, and any other temporary products from the site. All tools, equipment, and materials not the property of the Government shall be removed from the premises and properly disposed of off Government property. After removal of trailers, materials, and equipment from within the fenced area, remove the temporary project safety and storage area fencing. Restore areas used by the Contractor for the storage of equipment or material, or other use 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. Upon completion of the work, notify the Contracting Officer for final inspection.

-- End of Section --