

**SECTION 01 50 00 – TEMPORARY FACILITIES AND CONTROLS**

**PART 1 – GENERAL**

1.01 SECTION INCLUDES

- A. This Section applies to all Contracts and covers responsibilities for Project construction facilities, temporary facilities and controls, and security and protection facilities.

1.02 DEFINITIONS

- A. Permanent Enclosure: As determined by Engineer, permanent or temporary roofing is complete, insulated, and weathertight; exterior walls are insulated and weathertight; and all openings are closed with permanent construction or substantial temporary closures.

1.03 RESPONSIBILITIES UNDER CONTRACT

- A. Temporary facilities and controls include, but are not limited to, the following:
  - 1. Temporary facilities and controls that are not otherwise specifically assigned to another Contractor.
  - 2. Temporary sanitary facilities, wash facilities, and drinking water facilities, including disposable supplies.
  - 3. Excavation support and protection, unless required solely for the Work of another contract.
  - 4. Project identification and temporary signs.
  - 5. General waste disposal facilities.
  - 6. Temporary fire-protection equipment.
  - 7. Barricades, warning signs, and lights.
  - 8. Environmental protection.
  - 9. Restoration of Owner's existing facilities used as temporary facilities.
  
- B. In addition to specific responsibilities for temporary facilities and cols indicated in this Section, each Contractor is responsible for the following:
  - 1. Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, and costs and use charges associated with each facility.
  - 2. Plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
  - 3. Its own field office complete with necessary furniture, utilities, and communication service.
  - 4. Temporary enclosures for its own construction activities.
  - 5. General hoisting facilities for its own construction activities.
  - 6. Waste disposal facilities, including collection and legal disposal of its own hazardous, dangerous, unsanitary, or other harmful waste materials.
  - 7. Progress cleaning of its own areas on a daily basis.
  - 8. Secure lockup of its own tools, materials, and equipment.

9. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.

#### 1.04 REMOVAL OF UTILITIES, FACILITIES AND CONTROLS

- A. Remove temporary above-grade utilities, equipment, facilities, material, prior to Final Application for Payment inspection.
- B. Clean and repair damage caused by installation or use of temporary Work.
- C. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

#### 1.05 CONTRACTOR USE OF PREMISES

- A. Contractors use of the Site shall at all times be coordinated with the Owner so as to ensure continuous operation.
- B. Contractors shall not be provided space in any of the existing buildings, except as required, to accomplish the Work of the Contracts.
- C. Contractor shall take all precautions to minimize dust, dirt, and debris while working in the areas indicated on the Contract Drawings. Provide polyethylene curtains or other barriers over opening between new Work and existing Work areas as required. Clean and remove debris daily before leaving Work Site.

#### 1.06 QUALITY ASSURANCE

- A. Comply with all applicable Laws and Regulations of authorities having jurisdiction, including, but not limited to, building codes, health and safety regulations, utility company regulations, and environmental protection regulations.
- B. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- C. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

#### 1.07 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.
- B. Each Contractor may furnish and install their own field office(s), and storage facilities, and shall be responsible for removing these facilities upon completion of the Work.

- C. Contractor is not permitted to use existing facilities.

#### 1.08 VEHICULAR ACCESS

- A. Construct temporary all-weather access roads from public thoroughfares to serve construction area, of width and load-bearing capacity to accommodate unimpeded traffic for construction purposes.
- B. Construct temporary bridges and culverts to span low areas and allow unimpeded drainage.
- C. Extend and relocate vehicular access as Work progress requires and provide detours as necessary for unimpeded traffic flow.
- D. Locate as approved by Owner.
- E. Provide unimpeded access for emergency vehicles. Maintain 20 foot-wide driveways with turning space between and around combustible materials.
- F. Provide and maintain access to fire hydrants and control valves free of obstructions.
- G. Provide means of removing mud from vehicle wheels before entering streets.
- H. Use existing on-Site roads for construction traffic. Tracked vehicles are not allowed on paved areas.

#### 1.09 PARKING

- A. Arrange for surface parking areas to accommodate construction personnel.
- B. Locate as approved by Owner.
- C. If Site space is not adequate, provide additional off-Site parking.
- D. Use of designated areas of existing parking facilities used by construction personnel is permitted.
- E. Designate one parking space for Engineer/Owner.
- F. Permanent Pavements and Parking Facilities:
  - 1. Before Substantial Completion, bases for permanent roads and parking areas may be used for construction traffic.
  - 2. Avoid traffic loading beyond paving design capacity. Tracked vehicles are not allowed.
  - 3. Use of permanent parking structures is permitted.
- G. Maintenance:

1. Maintain traffic and parking areas in sound condition free of excavated material, construction equipment, products, mud, snow, ice, and the like.
  2. Maintain existing and permanent paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original condition.
- H. Removal, Repair:
1. Remove temporary materials and construction before Substantial Completion.
  2. Remove underground Work and compacted materials to depth of 2 feet; fill, compact and grade Site as indicated.
  3. Repair facilities damaged by use, to original condition.
- I. Mud from Site vehicles: Provide means of removing mud from vehicle wheels before entering streets.

## **PART 2 – PRODUCTS**

### **2.01 TEMPORARY FACILITIES**

- A. Field Offices: Prefabricated Mobile Units with lockable entrances, operable windows, and serviceable finishes; heated and air conditioned; on foundations adequate for normal loading with steps and landings at entrance doors.
- B. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
1. Store combustible materials apart from building.
  2. Allow for access and orderly provision for maintenance and for inspection of products by Engineer and Owner.
- C. Storage of materials shall comply with all applicable Laws and Regulations.

### **2.02 MATERIALS**

- A. Portable Chain-Link Fencing: Minimum 2-inch, 9-gage, galvanized steel, chain-link fabric fencing; minimum 6 feet high with galvanized steel pipe posts; minimum 2-3/8-inch OD line posts and 2-7/8-inch OD corner and pull posts, with 1-5/8-inch OD top and bottom rails. Provide galvanized steel bases for supporting posts.
- B. Lumber and Plywood: Comply with building code requirements.
- C. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

## 2.03 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- B. HVAC Equipment: Provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
  - 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
  - 2. Heating Units: Listed and labeled for type of fuel being consumed, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

## PART 3 – EXECUTION

### 3.01 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

### 3.02 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
  - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
2. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.

**END OF SECTION**