

SECTION 015000 – TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract, including Special Requirements, General Conditions and other Division 1 Specifications Sections apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Separate Prime Contractors shall provide those temporary utilities, temporary construction and support facilities, and security and protection facilities which are common to the Work of all Separate Prime Contractors as specified throughout this Section.

1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost.
- B. Water from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. The specific location is outlined on the Drawings and noted in Section 011000 – Summary of Work.

1.4 QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations if authorities have jurisdiction including, but not limited to:
 - 1. Building code requirements
 - 2. Health and safety regulations
 - 3. Utility company regulations
 - 4. Police, fire department and rescue squad rules
 - 5. Environmental protection regulations
- B. Standards: Comply with NFPA Code 241, "Building Construction and Demolition Operations", ANSI-A10 series standards for "Safety Requirements for Construction and Demolition" and NECA Installation Standards "Recommended Practice for Installing and Maintaining Temporary Electric Power at Construction Sites". Refer to "Guidelines for Bid Conditions for Temporary Job Utilities and Services", prepared jointly by AGC and ASC for industry recommendations.
- C. Inspections: Arrange for Authorities Having Jurisdiction to inspect and test each temporary utility before use.

1.5 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage installer of each permanent service to 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.

PART 2 - PRODUCTS

2.1 TEMPORARY FACILITIES

- A. Storage and Fabrication Sheds: Contractors shall provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
- B. Telephone Service: Each Prime Contractor shall provide mobile telephone service as needed.

PART 3 - EXECUTION

3.1 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.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. The Contractors shall pay all costs for the operation of temporary services except that the University will pay all fuel costs for water and power that are taken from their utility systems.
- C. Any part or parts of permanent service lines, grounds, and buildings disturbed or damaged by the installation and/or removal of the temporary service lines shall be restored to their original condition.
- D. Contractors, who fail to carry out his responsibility in supplying temporary services, as set forth in his contract, shall be held responsible for such failure, and the System shall have the right to take such action as it deems proper for the protection and conduct of the work and shall deduct the cost involved from the amount due the Contractor.
- E. Utility Interruptions: Arrange with the System and existing users for a time when service can be interrupted, where necessary, to make connections for temporary services.

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1. Provide bypass connections as necessary to maintain continuity of service to occupied areas of building. Provide minimum of 72 hours advance notice to the University if shut down of service is necessary during change over.
2. Each Prime Contractor shall have all needed equipment and material to complete planned work at the site prior to shutting down any system.

3.3 TEMPORARY WATER SERVICE

- A. Not used for this project.

3.4 SANITARY FACILITIES

- A. The General Contractor shall provide and maintain temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
 1. Temporary toilets shall be provided with toilet tissue and similar disposable materials for each facility, as well as covered waste containers for used material. Each Separate Prime Contractor shall periodically provide the Lead Prime Contractor with their anticipated number of workers on the job.
 2. Temporary toilets shall be self-contained single-occupant toilet units of the chemical, aerated recirculation, or combustion type, properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material.
- B. Wash Facilities: Provide wash facilities supplied with potable water at convenient locations for personnel involved in handling materials that require wash-up for a healthy and sanitary condition. Dispose of drainage properly. Supply cleaning compounds appropriate for each condition. Provide safety showers, eye-wash fountains and similar facilities for convenience, safety and sanitation of personnel.
- C. Drinking Water Facilities: Provide containerized tap-dispenser bottled-water type drinking water units, including paper supply. Where power is accessible, provide electric water coolers to maintain dispensed water temperature at 45 to 55 degrees (7 to 13 degrees C).
- D. All sanitary facilities shall comply with regulations and health codes for the type, number, location, operation, and maintenance of fixtures and facilities. Portable chemical toilets that are approved by the Pennsylvania Department of Health are acceptable.

3.5 TEMPORARY ELECTRIC POWER SERVICE

- A. The Electrical Contractor shall provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for ALL construction operations.
 1. Connect temporary service to Owner's existing power source, as directed by Owner.

3.6 TEMPORARY LIGHTING

- A. The Electrical Contractor shall provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

3.7 GENERAL COLLECTION & WASTE DISPOSAL

- A. Each Prime Contractor shall provide dumpsters for demolition materials, construction debris, and other waste materials. Removal and disposal of debris and waste shall be done in accordance with all applicable federal, state, and local laws and regulations. Contractors are encouraged to separate demolition materials and construction debris by type and to recycle materials to the maximum extent possible.
- B. Collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 degree F. (27 degree C). Handle hazardous, dangerous or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.
- C. Hazardous, dangerous, or unsanitary waste materials shall be handled separately from other waste by containerizing properly, and shall be disposed of in a lawful manner.
- D. Burying or burning waste materials on site is not permitted. Washing waste down sewers or into waterways is not permitted.

3.8 CONSTRUCTION AIDS AND FACILITIES

- A. Each Separate Prime Contractor shall be responsible for any construction aids and facilities required to perform their own work. Contractors are encouraged to share aids and facilities when appropriate and efficient to do so.
- B. Contractors shall supply, erect, maintain, and operate scaffolding and hoisting facilities and equipment for their own use.
- C. Contractors shall supply, assemble, erect, and move into proper location, all derricks, hoists, lifting apparatus and similar equipment necessary for the execution and installation of their own work.
- D. Any Contractor requiring access to the roof shall erect a personnel elevator or ladders, external to the building, for access to the roof.
- E. The operators of all equipment shall be properly licensed for equipment in use and shall be fully experienced in the safe operation of the equipment in use.
- F. Contractors shall comply with the terms, regulations, and conditions contained in the latest edition of the Pennsylvania Department of Labor and Industry Regulations for Construction and Repairs. Contractors shall also comply with OSHA requirements for construction aids and facilities.

END OF SECTION 015000