

## SECTION 01 50 00 - TEMPORARY UTILITIES AND FACILITIES

### PART 1 GENERAL

#### 1.1 SUMMARY

- A. This Section specifies requirements for temporary services and facilities including utilities, construction and support facilities, security, and protection, as specified below. The scope of work includes installation, maintenance, and removal of utilities.
- B. Any temporary utilities, services or facilities required by any contractor to perform its work, and are not specified in this Section, shall be provided by the contractor requiring such services at its own expense.
- C. Temporary Utilities include, but are not limited to:
  - 1. Temporary water service.
  - 2. Temporary electrical service and lighting.
- D. Temporary Facilities include, but are not limited to:
  - 1. Field offices and storage facilities.
  - 2. Dumpsters and trash cans.
  - 3. Temporary roads and lots.
  - 4. Dust control.
  - 5. Temporary sanitary facilities.
  - 6. Dewatering (of excavations and surface water).
  - 7. Temporary use of elevators.
  - 8. Project identification sign.
  - 9. Project safety signs.
  - 10. Security, safety, and protection facilities.

#### 1.2 TEMPORARY CONSTRUCTION WATER SERVICE

- A. Not required.
- B. This section excludes drinking water. Each Prime Contractor is responsible for providing drinking water for its workers.

#### 1.3 TEMPORARY ELECTRICAL SERVICE & LIGHTING

- A. Code Compliance:
  - 1. All temporary electrical service work shall comply with current NEC and 29 CFR 1926 requirements.
  - 2. All materials and equipment installed shall be UL listed.

13 NOVEMBER 2023

3. All installed work shall meet the requirements of the local electrical utility.
  - B. The Electrical Sub Contractor shall provide all temporary electrical service and lighting work, unless noted otherwise.
    1. Existing electrical panels and outlets may be used for temporary electrical service. When such facilities are de-energized, or are deemed to be insufficient by the Architect and Prime General contractor, Electrical Contractor shall supplement, extend, or otherwise provide additional temporary power.
    2. Existing lighting may be used for temporary lighting. When existing lighting is de-energized or otherwise not operational, Electrical Contractor shall provide temporary lighting, including breakers, circuits, and fixtures.
  - C. Temporary Electrical Service – Building(s).
    1. Temporary Power Station: a temporary power station shall consist of a 120V/100A service, junction box and six duplex GFCI outlets mounted to a stand. Each duplex outlet shall have a cover for weather protection compliant with current NEC and OSHA requirements. To the extent practical, all temporary power stations shall be fed with power from above; avoid placing feed cables on the ground.
    2. Temporary Power Station Quantity and Placement: provide temporary power stations in sufficient quantity, on each level of the building (excluding the roof), so that all rooms and spaces can be reached with a 100ft extension cord.
  - D. Temporary Lighting – Building(s):
    1. Temporary lighting in natatorium space shall be provided by existing building lighting.
    2. Temporary lighting shall illuminate all rooms to at least the level required by 29 CFR 1926.
    3. Task lighting, or any additional lighting required by any contractor to perform its work, shall be provided, installed, maintained, and removed by the contractor requiring such lighting.
  - E. The Owner shall pay for all electrical power usage.
  - F. 480 volt/3 phase power shall not be provided. Any contractor that requires such power shall provide such power at his own expense.
- 1.4 TEMPORARY FUEL GAS FOR TEMPORARY HEAT
- A. Not required.
- 1.5 TEMPORARY FACILITIES
- A. Field Offices and Storage Facilities:

13 NOVEMBER 2023

1. Field offices and storage facilities will be provided by the Prime General Contractor that requires them. Locations will be either as shown on the Site Logistics Plan or as coordinated by the Architect and Owner.
- B. Dumpsters & Trash Cans:
  1. General Contractor shall provide dumpster service to the project. A minimum of 1 dumpster(s) shall be maintained on site to receive all construction waste.
  2. Dumpsters shall be rotated/replaced as frequently as needed to avoid overfilling the dumpsters.
  3. General Contractor shall pay all costs associated with providing dumpsters, including charges for over-weight and overloaded dumpsters.
  4. General Contractor shall maintain the area around the dumpster in a clean and sanitary condition.
  5. General Contractor shall provide two 50-gal trash cans with lids for general waste collection. The General Contractor shall empty the trash cans as frequently as necessary to prevent them from being over-filled.
  6. Refer to Section "Construction Waste Management and Disposal" for additional requirements.
- C. Temporary Roads and Lots, and Dust Control:
  1. Not required.
- D. Snow & Ice Removal:
  1. The General Contractor shall provide snow and ice removal for all building exterior stairs and walks within the limits of construction.
  2. All snow plowing and deicing is to be completed prior to the start of the workday and maintained throughout the day as weather conditions persist, Contractor shall stockpile snow only at the locations designated by the school district. In no case will stock piling of snow be permitted in any school parking areas, walks or vehicular travel lanes.
- E. Temporary Sanitary Facilities:
  1. The Prime General Contractor is responsible for providing Temporary Sanitary facilities and weekly cleaning of the temporary sanitary and stocking them with toilet paper, hand towels and soap.
  2. The Owner may permit the existing swimming pool locker rooms to be used for sanitary facilities.
- F. Dewatering:
  1. Any dewatering that may be required shall be the responsibility of Prime General Contractor that requires dewatering to perform its work.
- G. Temporary Use of Permanent Elevator:
  1. Not applicable.

13 NOVEMBER 2023

H. Project Identification Sign:

1. Not required

I. Project Safety Signs:

1. Project Safety Signs, including signs for directions, warnings, deliveries, and safety, as either required by 7 29 CFR 1926 or by this Section, shall be provided by Prime General Contractor.
  - a. General Contractor shall provide Direction Signs 1, 2 and 3, as noted on the Site Logistics Plan.
    - 1) Font: Arial or similar non-serif font.
    - 2) Letter height: 3"
    - 3) Lettering: black, vinyl or paint
    - 4) Substrate: Aluminum, corrugated plastic, or other durable material suitable for exterior use. Reflective white surface.
    - 5) Posts: Posts shall be metal, designed for traffic signs to be bolted to them.
    - 6) Sign height: Center of sign to be 48" to 52" above the adjacent road, drive, or lot.
2. The quantities and locations of such signs shall be coordinated with the Construction Manager.

J. Security, Safety and Protection Facilities:

1. Fire Extinguishers: General Contractor shall provide and maintain temporary fire extinguishers in size(s), quantities on each building level and area as required by 29 CFR 1926.
2. Welding & Hot Work: Any contractor performing welding, metal cutting/grinding, or any other hot work or work likely to create sparks and the risk of fire, shall provide its own fire extinguishers and/or fire blankets as required by 29 CFR 1926.
3. Personal Protective Equipment (PPE): All prime contractors shall provide 29 CFR 1926-compliant Personal Protective Equipment, required for the work performed, to its workers.
4. First Aid Kits: All prime contractors shall maintain on site a first aid kit/station, including eyewash, compliant with 29 CFR 1926. General Contractor shall provide one 29 CFR 1926-compliant first aid station for each area/unit of the building.
5. Silica Dust: Any contractor performing work that may create silica-containing dust shall comply with 29 CFR 1926 requirements. Provide all PPE and dust-collecting equipment required.
6. Lasers: Any contractor using lasers shall comply with 29 CFR 1926 requirements and shall post warning signs throughout the work area.
7. Barricades: Any contractor performing work that requires control of access shall provide its own barricades. For work in areas where the public operates motor vehicles (public and private roads, drives and lots), this includes DOT-approved warning signs, lights, and flagmen. When required by the Authority Having Jurisdiction, prepare, and submit to the AHJ a

13 NOVEMBER 2023

Maintenance and Protection of Traffic (MPT) Plan.

8. Environmental Protection: All prime contractors are responsible for implementing environmental protection measures. This includes, but is not limited to, providing 29 CFR 1926-compliant storage of chemicals, liquids and other materials that may be harmful to the environment; and the immediate cleanup of spills or discharges of such materials.
  9. Building Locks: Owner shall provide keys to the exterior storefront double doors. General Contractor shall lock the doors at the end of the workday.
  10. Temporary Railings at pool vessels: General Contractor shall install, and when directed, remove 29 CFR 1926-compliant temporary railing.
  11. Ladders, Lifts and Scaffolding: Each contractor shall provide its own ladders, lifts and scaffolding if required. All ladders, lifts and scaffolding shall comply with 29 CFR 1926.
  12. Temporary Stairs: Temporary stairs are not required for this project.
  13. Special requirements for ventilation are the responsibility of the Prime General Contractor, requiring ventilation for their work. This includes work that produces smoke, fumes, or noxious odors.
  14. Tree Protection Fence: Not required.
- K. Temporary Construction Fencing: (May not be required - TBD)
1. General Contractor shall provide temporary construction fencing as shown on the Site Logistics Plan; if not shown on the Site Logistics Plan or other drawing, the temporary construction fencing shall be installed along the Limits of Construction line.
  2. Install temporary construction fencing within 14 days of receipt of the Notice to Proceed.
  3. Remove the temporary construction fencing at Substantial Completion, or when directed by the Construction Manager.
  4. Temporary construction fencing specifications:
    - a. Fence Height: 6'-0".
    - b. Temporary fence panels, with bases and sandbags for ballast, shall be used. Fence panels shall be tied together with wire, or other means, to prevent removal of fence panels.
    - c. Fence Mesh: galvanized wire, 11½ gauge x 2 3/8" mesh. Neither top rails nor top wires are required.
    - d. Wind Screen: Not required.
    - e. Vehicle Gates: Provide vehicle gates that are shown in the drawings. Where not shown, coordinate gate locations with the Construction Manager and the other prime contractors.
    - f. Man-Gates: Not required.
    - g. Gate Locks: Provide chain and keyed padlocks for each gate. All padlocks shall be keyed alike. Provide a key to the Owner.
      - 1) Contractors may daisy-chain padlocks.
- L. Wheel Wash Facility: Not required.

13 NOVEMBER 2023

M. Concrete Washout Facility: Washout of concrete transit trucks and portable mixers shall not be permitted on site.

N. Inspections:

1. The Prime General Contractor providing temporary utilities shall arrange for authorities having jurisdiction to inspect and test each temporary utility before use and obtain required certifications and permits. Provide copies of the results of all inspections and tests to the Owner and Architect.
2. The Prime General Contractor providing temporary facilities shall inspect such facilities at least weekly, and correct, repair, add to or replace facilities that do not meet the Quality Assurance requirements.

## 1.6 PROJECT CONDITIONS

A. Conditions of Use:

1. The Prime General Contractor shall keep temporary services and facilities clean and neat in appearance.
2. The Prime General Contractor shall operate such facilities in a safe and efficient manner.
3. The Prime General Contractor shall take necessary fire prevention measures.
4. Do not allow hazardous or unsanitary conditions or public nuisances to develop or persist on the site.
5. Report any unsafe conditions noticed to the Owner and Architect immediately.

## 1.7 QUALITY ASSURANCE

A. Regulations: All trades shall comply with industry standards and applicable laws and regulations of authority having jurisdiction, including but not limited to:

1. Municipal and Pennsylvania Department of Labor and Industry Building Code Requirements.
2. State Health and Safety Regulations.
3. Federal Health and Safety Regulations (29 CFR 1926)
4. Utility Company Regulations.
5. Police, Fire Department, and Rescue Squad rules.
6. State Department of Transportation
7. State and Federal Environmental Protection Regulations.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

A. General: Provide either new materials or undamaged previously used materials

in serviceable condition for use in temporary construction. Provide materials suitable for the use intended.

## 2.2 EQUIPMENT

- A. General: Provide either new equipment or undamaged previously used equipment in serviceable condition for use in temporary construction. Provide equipment suitable for use intended.
- B. Water Hoses: Provide three-quarter (3/4)" heavy duty abrasion resistant, flexible rubber hoses with pressure rating greater than the maximum pressure of the water distribution system. Provide adjustable shut off nozzles at hose discharge.
- C. Architect's/Owner's Field Office: Not required.

## PART 3 - EXECUTION

### 3.2 GENERAL

- A. Use qualified personnel for installation of temporary facilities. Locate facilities where they will serve the project adequately and result in minimum interference with performance of the work. Relocate and modify facilities as required.
- B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by completed permanent facilities that have been authorized for use.
- C. Permanent Systems and Equipment Warranties: If permanent systems and equipment are used as temporary systems and equipment, the responsible Prime Contractor shall clean, repair, and refurbish the facilities, and take all steps and actions at its own cost to provide the required warranties commencing upon Substantial Completion.

### 3.03 TEMPORARY ROADS AND LOTS

- A. Not required.

### 3.04 TEMPORARY DISCHARGE OF ROOF DRAINS

- A. Not required.

### 3.05 DAILY AND WEEKLY CLEANUP

13 NOVEMBER 2023

- A. Daily Cleanup:
  - 1. Each Prime Contractor shall clean up its work areas daily, including those of its sub and sub-subcontractors.
  - 2. Daily cleanup will leave the building and site free of trash, construction waste and other debris.
  - 3. Floors shall be broom cleaned daily.
- B. Weekly Cleanup:
  - 1. General Contractor shall serve as the lead contractor for coordinating and maintaining a clean project site.
  - 2. On a day agreed to by all Prime Contractors, each prime contractor shall send one worker, plus one worker for each of its subcontractors that worked on site at any time during the last seven calendar days, to report to General Contractor for a Composite Cleanup Crew (CCC). The CCC shall start work at the beginning of the workday and continue to work until the Owner and architect are satisfied that the building and site are clean.
  - 3. General Contractor shall provide trash cans as needed for this cleanup work. The trash cans for the break and lunch areas shall not be used for weekly cleanup.
- C. Cleaning Public Streets:
  - 1. General Contractor shall clean daily all mud, dirt, and debris resulting from all trades operations from the streets, sidewalks, drives, parking areas adjacent to the project site. This work will be performed as required by public road condition, and as frequently as required by the Owner or the local municipality.

### 3.06 QUALITY CONTROL

- A. The Prime General Contractor providing temporary utilities shall arrange for authorities having jurisdiction to inspect and test each temporary utility before use and obtain required certifications and permits. Provide copies of the results of all inspections and tests to the Owner and Architect.
- B. The Prime General Contractor providing temporary facilities shall inspect such facilities at least weekly, and correct, repair, add to or replace facilities that do not meet the Quality Assurance requirements.

END OF SECTION 01 50 00