

ATTACHMENT

H

SECTION 01500
TEMPORARY FACILITIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, Contract Provisions, Special Provisions, Supplementary Provisions, and other Division 1 Specification Sections apply to this Section.

1.2 SUMMARY

- A. This Section specifies requirements for temporary services and facilities, including utilities, construction and support facilities, security and protection.

- B. Temporary utilities required include but are not limited to:

1. Water service and distribution.
2. Temporary electric power and light.
3. Telephone service.
4. Storm and sanitary sewer.
5. Natural Gas.

- C. Temporary construction and support facilities required include but are not limited to:

1. Temporary heat.
2. Field offices and storage sheds.
3. Temporary roads and paving.
4. Sanitary facilities, including drinking water.
5. Dewatering enclosures.
6. Temporary enclosures.
7. Temporary Project identification signs and bulletin boards.
8. Waste disposal services.
9. Rodent and pest control.
10. Construction Entrance.
11. Construction aids and miscellaneous services and facilities.
12. Temporary environmental controls.

- D. Security and protection facilities required include but are not limited to:

1. Temporary fire protection.
2. Barricades, warning signs, lights.
3. Environmental protection and erosion control.
4. Enclosure fence for the site

1.3 FIELD CONDITIONS

- A. It is anticipated that temporary connections to utilities will not be practicable to the Contractor, and will therefore require Contractor's provision of on-site supplies as required due to utilities' distance from jobsite for the following utilities:

1. Water
2. Sewer
3. Electricity

4. Natural Gas
5. Telephone

1.4 CONTRACTOR'S RESPONSIBILITIES

A. The Contractor is responsible for:

1. Installation, operation, maintenance and removal of each temporary service or facility usually considered as its own normal construction activity, as well as the costs and use charges associated with each such service or facility.
2. Plug-in electric power cords and extension cords, and supplementary plug-in task lighting and located as needed.
3. Its own field office, complete with necessary furniture, utilities and telephone service.
4. Its own storage and fabrication sheds.
5. Temporary heat, ventilation, humidity control and enclosure of the building where these utilities are necessary for its construction activity, but where these utilities have not yet been installed.
6. All hoisting equipment required to hoist material or equipment into place.
7. Collection and disposal of own hazardous, dangerous, unsanitary or other harmful waste material.
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.
10. Contractor shall obtain and pay for all required applications, permits and inspections pertaining to the work.
11. Temporary facilities shall be installed in conformance with all U.S. Department of Labor OSHA requirements, Federal, State and Municipal codes and requirements.
12. Contractor requiring any temporary services before it can be provided as specified, or whose requirements with respect to a particular service differ from the services specified, shall provide such service as suits its needs, at Contractor's own expense and in accordance with these specifications.
13. Contractor shall be responsible for all necessary temporary drainage pertaining to its work, and employ temporary trenches, drains, sumps or other necessary elements as required to afford satisfactory working conditions for the protection, execution and completion of work.
14. Contractor shall provide temporary telephone service at the site.
15. Contractor shall provide its own drinking water and supplies.
16. Contractor shall provide its own barricades, warning signs and lights when required by work.
17. Contractor shall provide all necessary and required safety, first aid supplies and equipment.
18. Contractor shall provide for cleanup from its own operations and deposit in dumpster provided by General Construction Contractor.
19. Temporary environmental conditioning after building is enclosed.
20. Separate field office for Architect's and Owner's On-Site Representative.
21. Temporary toilets, including disposable supplies.
22. Temporary wash facilities, including disposable supplies.
23. Temporary enclosure of the building.
24. Temporary storm drainage.
25. Collection and Disposal of wastes.
26. Security enclosure and lockup, and general security until enclosure.
27. Temporary stairs and ladders.
28. Fire extinguishers.
29. Rodent and pest control.
30. Barricades, warning signs and lights.

B. Maintenance (and removal upon project completion) of temporary facilities provided under previous Contract for Demolition and Abatement, including:

1. Temporary supports associated with selective demolition.
2. Project identification sign.

1.5 SUBMITTALS

- A. Shop Drawings - Submit to the Architect for the Owner's review site plans indicating all temporary facilities and utility connections. Provide detailed drawings of utility connections and special facilities.
- B. Temporary Utilities: Submit reports of tests, inspections, and similar procedures performed on temporary utilities.

1.6 QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction, including but not limited to:
 1. Building Code requirements.
 2. Health and safety regulations.
 3. Utility company regulations
 4. Environmental protection regulations.
- B. Standards: Comply with NFPA Code 241, "Construction Alteration and Demolition Operations", standards for "Safety Requirements for Construction and Demolition", and NECA Electrical Design Library, "Temporary Electrical Facilities."

1.7 PROJECT CONDITIONS

- A. Temporary Utilities: Incorporate into the construction schedule dates for implementation and termination of each temporary utility.
- B. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Take necessary fire prevention measures. Do not overload facilities, or permit them to interfere with progress. Do not allow hazardous, dangerous or unsanitary conditions, or public nuisances to develop or persist on the site.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide new materials. If acceptable to the Architect, undamaged, previously used materials in serviceable condition may be used.
- B. Lumber and Plywood:
 1. For job-built temporary offices, shops and sheds within the construction area, provide UL labeled, fire treated lumber and plywood for framing, sheathing and siding.
 2. For signs and directory boards, provide exterior type, Grade B-B High Density Concrete Form Overlay Plywood.
- C. Paint:
 1. For signs, panels and applying graphics, provide exterior grade alkyd gloss enamel over exterior primer.

D. Precast Concrete Barriers:

1. Meet or exceed ASTM C825, Standard Specification for Precast Concrete Barriers.
2. Minimum weight is 600 lbs/lf and a minimum total weight of 3,000 lbs.
3. Minimum of 30% total area covered with reflective paint or reflective markers.

2.2 EQUIPMENT

- A. General: Provide new equipment. If acceptable to the Architect, undamaged, previously used equipment in serviceable condition may be used. Provide equipment suitable for use intended.
- B. Field offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
1. At field office, post a list of emergency telephone numbers.
- C. Common-Use Field Office: Of sufficient size to accommodate needs of construction personnel. Keep office clean and orderly. Furnish and equip office as follows:
1. Furniture required for Project-site documents including file cabinets, plan tables, plan racks, and book cases.
 2. Conference room of sufficient size to accommodate meetings of 10 individuals.
 3. Telephone with speakerphone capabilities for teleconferences.
 4. Provide electrical power service and 120-V ac duplex receptacles, with not less than 1 receptacle on each wall.
 5. Furnish room with conference table, chairs, and 4-foot square tack board.
 6. Drinking water and private toilet.
 7. Coffee machine and supplies.
 8. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
 9. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.
 10. Provide 6 hard hats, and 1 copier/fax/printer capable of handling 11 x 17 copies.
- D. Government-Use Field Office: Provide separate lockable private office for exclusive use of the government inspectors, to include Contracted inspectors. Furnish and equip offices as follows (anticipated for a minimum of six staff members):
1. Furniture required for Project-site documents including file cabinets, plan tables, plan racks, and bookcases.
 2. Provide Data/comm. Connections for up to 6 computer workstations and 6 phones.
 3. Provide 1 Telephone with speakerphone capabilities for teleconferences.
 4. Conference room of sufficient size to accommodate meetings of 10 individuals.
 5. Provide electrical power service and 120-V ac duplex receptacles, with not less than 1 receptacle on each wall.
 6. Furnish room with conference table, chairs, and 4-foot square tack board.
 7. Drinking water and private toilet.
 8. Coffee machine and supplies.
 9. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
 10. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.
 11. Provide 6 hard hats, and 1 copier/fax/printer capable of handling 11 x 17 copies.
 12. Internet Service: Broadband modem, router and ISP, equipped with hardware firewall, providing minimum 384 Kbps upload and 1 Mbps download speeds at each computer.

- E. Temporary Toilet Units: Provide self-contained single-occupant toilet units of the chemical, aerated re-circulation, or combustion type, properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material.
- F. First Aid Supplies: Comply with governing regulations.
- G. Fire Extinguishers: Provide hand-carried, portable UL-rated, class "A" fire extinguishers for temporary offices and similar spaces.
- H. Temporary Fuel Tanks: Comply with all applicable Safety and Environmental regulations for temporary surface fuel tanks. Location and installation shall be subject to review and approval by the Owner and the State's Fire Marshal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Use qualified personnel for installation of temporary facilities. 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 authorized use of completed permanent facilities.

3.2 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. General: Except for use of permanent fire protection as soon as available, do not change over from use of temporary security and protection facilities to permanent facilities until substantial completion, or longer as requested by Architect.
- B. Temporary Fire Protection: Until fire protection needs are supplied by permanent facilities, install and maintain temporary fire protection facilities of the types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 10 "Standard for Portable Fire Extinguishers" and NFPA 241 "Standard for Safeguarding, Construction, Alterations and Demolition Operations".
 1. Contractor shall locate fire extinguishers where convenient and effective for their intended purpose, but not less than one extinguisher on each floor at or near each usable stairwell.
 2. Store combustible materials in containers in fire-safe locations.
 3. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities, stairways and other access routes for fighting fires. Prohibit smoking in hazardous fire exposure areas.
 4. Provide supervision of welding operations, combustion type temporary heating units, and similar sources of fire ignition.
- C. Permanent Fire Protection: At the earliest feasible date in each area of the project, complete installation of the permanent fire protection facility, including connected services, and place into operation and use. Instruct key personnel on use of the facilities.
- D. Barricades, Warning Signs and Lights: Comply with all applicable standards and code requirements for erection of structurally adequate barricades.
 1. Contractor shall provide, maintain and remove all barricades, warning lights, and other devices required for the security, protection and safety of its work and employees, as well as the public.
 2. Contractor shall provide all flagmen, steel plates, warning lights, and other devices required to maintain traffic safety along existing roads affected by its work. Traffic must be maintained without interruption.

3. Provide and maintain access to fire hydrants, water valves, gas valves, manholes and other similar appurtenances.
 4. Contractor shall provide, maintain, and remove all barricades and other devices required at perimeters of openings in floors, roofs, and at exterior walls for safety of all workers and public.
 5. Contractor shall maintain temporary fences and gates during the work of other contracts and remove at completion of project.
- E. Security Enclosure and Lockup: Install substantial temporary enclosure of partially completed areas of construction. Provide locking entrances to prevent unauthorized entrance, vandalism, theft and similar violations of security.
- F. Storage: Where materials and equipment must be stored, and are of value or attractive for theft, provide a secure lockup. Enforce discipline in connection with the installation and release of material to minimize the opportunity for theft and vandalism.
- G. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways, and subsoil might be contaminated or polluted or that other undesirable effects might result. Avoid use of tools and equipment that produce harmful noise. Restrict use of noise-making tools and equipment to hours that will minimize complaints from persons or firms near the site.
1. The Contractor shall utilize and comply with the recommendations and standards for erosion and sediment control as set forth in the following publications, on the date in effect on the date of Contract Documents:
 - a. "WV Erosion and Sediment Control Best Management Practices Manual - 2006", WV Department of Environmental Protection, Division of Water and Waste Management online document available at http://www.dep.wv.gov/WWE/Programs/stormwater/csw/Pages/ESC_BMP.aspx
 - b. West Virginia Division of Highways - Erosion and Sediment Control, Construction Division, Charleston, West Virginia.

3.3 TEMPORARY UTILITY AND FACILITIES INSTALLATION

- A. General: The Contractor will engage the appropriate utility owner to install temporary service.

3.4 TEMPORARY ELECTRIC:

- A. Contractor may arrange for temporary electrical service using Contractor's own resources as practicable, after receiving authority to commence work. Provide, in this case, temporary service and installation of temporary panels, poles, wiring and outlets, as required to meet project needs for temporary lighting and power at the start of the project, as work progresses, and until the date of substantial completion.
1. Contractor's on-site electrical power generators and power distribution shall conform to all requirements of this section for temporary electrical power.
 2. Coordination with Power Company must begin immediately upon award of Contract. Complete installation of temporary lighting and power system throughout building.
 3. As soon as exterior walls and roof of new construction or portion thereof are installed and openings enclosed, arrange for and provide permanent electric service to building location.
 4. Installation, maintenance, operating and supervision for temporary lighting and power, including permanent system when put into operation paid by Contractor.

5. Remove temporary light and power system when permanent systems and service are available for use. No part of temporary systems shall form a part of the finished building.
6. The system shall consist of a 200 amp or greater if required, 110-220 volt, single phase service with disconnect on the property at a central location for distribution from which the Contractor shall extend additional services as follows:
 - a. Power service and distribution system shall be properly grounded in accordance with NEC requirements.
 - b. All feeders and branch circuits not installed in metallic raceway shall be provided with ground wire capable of equipment grounding.
 - c. #12 wire shall be used for branch circuits less than 100' to the last receptacle or outlet and #10 wire for circuits more than 100'.
 - d. All plug-in receptacles shall be 20A, duplex, NEMA grounded type.
 - e. Provide GFI protection as required.
 - f. Branch circuits feeding receptacles shall be rated for 20A. The receptacles shall be spaced so that they can be reached by a 50' extension cord for 120 volt applications and a 100' extension cord for 220 volt applications from any part of the building.
 - g. Provide the total number of light sockets in accordance with the following provisions:
 - 1) One (1) for every 500 sq. ft. of interior rooms
 - 2) There shall be at least one (1) light in every interior room regardless of the square foot area of the room, except rooms designated as closets or pipe spaces. Working light required by trades shall be provided by each trade using plug-in portable lights.
 - 3) There shall be at least one (1) light on 20' centers for all interior corridors. Short corridors less than 20' length shall be provided with one (1) light.
 - h. All lamps shall be provided Contractor. Lamps shall be 100 watt to 300-watt sizes.
 - i. Replace all burned out and missing lamps as required during hours when electricians are regularly working on the project.
 - j. Contractor shall install the required lighting and receptacle circuits along a route least objectionable to the construction work, in a safe manner as to avoid construction interferences.
 - k. If any Contractor should require service other than 110-220 volt single phase, that Contractor shall make necessary arrangements to provide such service. Contractor requiring such service shall pay installation costs.
 - l. Contractor shall provide its own extensions for lights or power tools beyond the receptacle outlets provided above.
 - m. Contractor shall install and maintain a reasonably balanced system and shall take current readings on the feeders at regular intervals as required. Correct any serious phase imbalance.

- n. Contractor shall protect installation against weather damage and the normal operations of other trades. Contractor shall be responsible for the proper use and maintenance of all temporary wiring systems until they are removed.
 - o. Whenever an overhead floor or roof deck has been installed, install temporary lighting with local switching. Installation, maintenance and removal is by the Contractor.
 - p. Install and operate temporary lighting that will fulfill security and protection requirements without operating the entire lighting system, and will provide adequate illumination for construction operations and traffic conditions.
- B. Water Control: Surface or subsurface water or other fluids shall not be permitted to accumulate in excavations nor in or about the premises and vicinity thereof. Should such conditions be encountered or develop, the water or other fluid shall be controlled and disposed off the site in a lawful manner.
- 1. Filter out excessive amounts of soil, construction debris, chemicals, oils and similar contaminants that might clog sewers or pollute waterways before discharge.
 - 2. Maintain temporary sewers and drainage facilities in a clean, sanitary condition. Following heavy use, restore normal conditions promptly.
 - 3. Provide earthen embankments and similar barriers in and around excavations and subgrade construction, sufficient to prevent flooding by runoff of storm water from heavy rains.
- C. Heating Facilities: Except where use of the permanent system is authorized, provide vented self-contained LP gas or fuel oil heaters with individual space thermostatic control.
- 1. Use of gasoline-burning space heaters, open flame, electric space heaters, and salamander type heating units is prohibited.
- D. Temporary Environmental Conditioning Prior to Building Enclosure:
- 1. Prior to building enclosure, Contractor shall provide temporary environmental conditioning required by construction activities, for curing or drying of completed installations, or protection of installed construction from adverse effects of low temperatures or high humidity. Select safe equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce the ambient condition required and minimize consumption of energy.
 - 2. Contractor shall provide, at its own expense, all cold weather and inclement weather protection as required to carry on its work and to protect all its work and materials from damage by the weather. This shall include protection of work exposed to the elements against dampness and cold, by covering, temporary enclosures, heating materials and work under construction, and for providing suitable working conditions for workers employed on the work.
- E. Temporary Environmental Conditioning After Building Enclosure:
- 1. As soon as exterior walls and the roof of the building or a portion thereof are installed and openings enclosed, Contractor shall provide temporary environmental conditioning in the building as may be necessary to protect the building and its contents from freezing and as follows.
 - 2. At all times during normal working hours, provide sufficient heat to maintain a temperature of not less than 50 degrees F.

3. At all times during the placing, setting and curing of concrete, provide sufficient heat to produce a temperature in the spaces involved of not less than 50 degrees F.
 4. For a period of ten (10) days previous to the placing of interior wood finish materials and throughout the placing of this and other interior finish materials including flooring systems, casework, painting, etc., and until final acceptance of work and occupancy by the Owner, provide sufficient conditioning to produce a temperature of not less 70 degrees F and a humidity range acceptable for installation of finish materials.
 5. Contractor shall provide all equipment required for temporary environmental conditioning including all material, labor and supervision to connect same. All services shall be installed in accordance with agencies having jurisdiction.
 6. Contractor shall operate heating and ventilating systems (and air conditioning systems as required for humidity control) continuously 24 hours each day, including Saturdays, Sundays and holidays. Operating shall include necessary labor and approved operating personnel in attendance as required by agencies having jurisdiction or as recommended by equipment manufacturer supplier.
 7. Contractor shall be responsible for wiring all temporary heating and conditioning units. Switches and disconnects shall be approved safety devices. Upon completion, remove all temporary wiring and devices.
 8. Unless otherwise approved, temporary heating units shall be hot air type with electric blowers, vented to exterior.
- F. Permanent HVAC system may not be used to furnish all or part of temporary environmental conditioning unless authorized by Architect. Permanent HVAC system start-up shall be authorized only by Architect.
- G. Heating Facilities: Except where use of the permanent system is authorized, provide properly vented self-contained LP gas or fuel oil heaters with individual space thermostatic control. All heaters must be acceptable to the Fire Marshal and all other regulations having jurisdiction. Use of gasoline-burning space heaters or open burning or salamander type heating units is prohibited.
- H. Contractor shall provide sanitary facilities which include temporary toilets. Comply with regulations and health codes for the type, number, location, operation and maintenance. Install where facilities will best serve the project's needs. Provide toilet tissue, paper towels, soap and similar disposable materials for each facility. Provide covered waste containers for used material.
- I. Drinking Water Facilities: Contractor shall provide its own drinking water, including paper supply.
- J. Dewatering Facilities and Drains: Contractor to provide as it relates to work of its contract. For temporary drainage and dewatering facilities and operations not directly associated with construction activities included under individual sections, comply with dewatering requirements of applicable Division 2 Sections. Where feasible, utilize the same facilities. Maintain the site, excavations and construction free of water.
- K. Temporary Enclosures: Contractor shall provide temporary enclosure for protection of construction in progress and completed, from exposure, foul weather, other construction operations and similar activities.
1. Where heat is needed and the permanent building enclosure is not complete, provide temporary enclosures where there is no other provision for containment of heat. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions and effects.
 2. Install tarpaulins securely, with incombustible wood framing and other materials. Close openings of 25 sq. ft. or less with plywood or similar materials.
 3. Close openings through floor or roof decks and horizontal surfaces with load-bearing wood-framed construction.

- L. Temporary Site Lighting: Contractor shall install exterior yard and sign lights so that signs are visible when work is being performed.
 - M. Temporary Buildings: All temporary buildings required by the Contractor(s) shall be weather and watertight, and shall be maintained in a neat orderly appearance for the duration of the work.
 - 1. Temporary Enclosures: Provide temporary enclosure and fencing for protection of construction in progress and completed, from exposure, foul weather, other construction operations, similar activities, and to prohibit public and Government personnel access to project areas
 - N. Signs: No signs will be permitted on this Project except for the specified project signs, certain directional signs and warnings signs required for safety, protection and direction of traffic. The Contractor shall take all necessary steps to prevent installation of all unauthorized signs, and should any appear, the Contractor shall cause to be removed immediately, and repair and repaint all damage caused thereby without additional cost to the Owner.
 - 1. At the onset of the work, the Contractor shall be provided an 8 ft. x 4 ft. x ¾ inch sign on 4 inch x 4 inch x 6 ft. wood post by the work site entryway. The entire sign and its supports shall be given one coat of exterior wood primer and one finish coat of exterior paint. The sign layout and design will provided by the Architect.
 - O. Collection and Disposal of Waste: Collect waste from construction areas and elsewhere daily. Do not hold material and debris more than 7 days. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste through proper containerization. Clean roadways, parking areas and walkways affected by construction to the satisfaction of the Owner. Failure to do so may result in the cleanup being accomplished by others at the expense of the Contractor.
 - P. Major Construction Activities involving disruption or demolition of facilities: where work involves demolition or remodeling, provide the Owner with a minimum of 30 calendar days notice prior to starting work in those areas normally occupied. Show on the initial CPM schedule when those activities are proposed to occur in the overall project schedule so that they can be coordinated with the users of the facility.
 - Q. Coordinate shutdown of roads and temporary traffic access roads with the Owner. Provide three working day notice prior to closure or demolition of roads and obtain written approval from Owner before proceeding.
 - R. Provide traffic guards to direct traffic during temporary road closures.
- 3.5 OPERATION, TERMINATION AND REMOVAL**
- A. Supervision: Enforce strict discipline in use of temporary facilities. Limit availability of temporary facilities to essential and intended use to minimize waste and abuse.
 - B. Maintenance: Maintain facilities in good operating condition until removal. Protect from damage by freezing temperatures and similar elements.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation and similar facilities on a 24-hour day basis where required to achieve indicated results and to avoid the possibility of damage.
 - 2. Protection: Prevent water filled piping from freezing. Maintain markers for underground lines. Protect from damage during excavation operations.

- C. Termination and Removal: Unless the Architect requests that it be maintained longer, remove each temporary facility when the need has ended, or when 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 the temporary facility. Repair damaged work, clean exposed surfaces, and replace work which cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary services are property of each Prime Contractor. The Owner reserves the right to take possession of project identification signs.
- D. At substantial completion, clean and renovate permanent facilities that have been used during the construction period including, but not limited to, the following:
 - 1. Replace lamps that are burned out or noticeable dimmed by substantial hours of use.

3.6 CLEANUP

- A. Contractors shall keep the entire premises in a clean and sanitary condition during the entire progress of the work and shall post notices and take precautions to keep the site clean.
- B. Contractor shall provide a dumpster or other trash container of adequate size for use by all trades. Rental and dump fees shall be paid by the General Construction Contractor. Dispose of material in a lawful manner.
- C. Contractor shall remove daily from the location of its work the packaging material and other debris from its work and to deposit it in the trash container or recycling containers. Areas shall be left broom clean at the end of each construction activity.
- D. Contractor shall remove any unidentifiable debris as it accumulates.
- E. Contractor shall maintain existing off-site and on-site roads to permit vehicular traffic and shall perform the necessary sweeping and washing of the roads for the length being used.
- F. Contractor shall be responsible for final cleanup, including replacement of any broken glass, cleaning of glass (both sides), finish hardware, and light fixtures and removal of paint, stains, marks and spots from all finish work for final inspection.
- G. Contractor shall be responsible for leaving all grounds within Contract limits rake clean, for leaving all paving and walks washed and broom clean, for leaving all hard surfaced floors mop clean, and for leaving all carpeted floors vacuum clean plus all other closeout requirements.
- H. Contractor shall clean all plumbing fixtures including any fixtures used during construction for final inspection.
- I. Contractor shall clean all electrical devices and light fixtures removing bugs, debris, stains, rust and dirt for final inspection.
- J. Contractor shall clean and maintain all HVAC equipment and devices including replacement of filters, cleaning flues and all other equipment.

END OF SECTION