

SECTION 01 5000

TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 SUMMARY

- A. This Section specifies requirements for temporary facilities and controls, including the following:
 - 1. Temporary sanitary facilities.
 - 2. Temporary fire protection.
 - 3. Temporary bracing, shoring, sheeting, tie-down.
 - 4. Temporary stairs, ladders, ramps, and platforms.
 - 5. Temporary fencing, barriers, and partitions.
 - 6. Temporary protective night lighting.
 - 7. Temporary utilities and facilities.
 - 8. Temporary electricity and lighting.
 - 9. Temporary heat and ventilation.
 - 10. Temporary telephone/fax service/e-mail.
 - 11. Temporary water.
 - 12. Dust control.
 - 13. Noise control.
 - 14. Pollution control.
 - 15. Erosion and sediment control.
 - 16. Water control.
 - 17. Moisture and mold control.
 - 18. Protection of construction.
 - 19. Temporary field offices.
 - 20. Temporary storage facilities.
 - 21. Construction aids.
 - 22. Temporary enclosures.
 - 23. Project identification.
 - 24. Parking facilities and control and construction deliveries.
 - 25. Temporary paving.
 - 26. Security.
 - 27. Collection and disposal of waste.
 - 28. Maintenance of streets, walks, and grounds.
 - 29. Municipal police and fire department services.
 - 30. Maintenance, termination, and removal.
- B. Refer to the Division 00 for specific additional requirements, and temporary utilities and weather protection.
- C. All work performed under the Contract shall conform to the requirements of local noise, dust, and pollution control laws, ordinances, and regulatory agencies applicable to the work, and to more stringent requirements of the Contract Documents, governing limitation of noise and environmental pollution.

1.2 TEMPORARY SANITARY FACILITIES

- A. The Contractor shall be responsible for providing ample toilet facilities with proper enclosures for the use of workmen employed on the work, including toilets in construction trailers. Toilet facilities shall be installed and maintained in conformity with the governing laws and building code. Include

separate lockable toilet facilities for men and for women. They shall be properly lit and ventilated, and shall be kept clean at all times.

1. Provide sanitary facilities in compliance with laws and regulations.
2. Service, clean, and maintain facilities and enclosures.
3. Comply with rules and regulations of OSHA and the local State Board of Health.
4. Do not use permanent plumbing fixtures.
5. *Pay costs for installation, maintenance, and removal of temporary sanitary facilities.*

1.3 TEMPORARY FIRE PROTECTION

- A. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
- B. Each Subcontractor shall take all necessary precautions for the prevention of fire during construction. Each Subcontractor shall be responsible that the area within the contract limits is kept orderly and clean and that combustible rubbish is promptly removed from the site. Combustible materials shall be stored on the site in a manner and at locations approved by the Architect. The Contractor shall comply with all suggestions regarding fire protection made by the insurance company with which the Owner maintains fire insurance or an OCIP.
- C. The Contractor shall provide and maintain in good working order, under all conditions, readily available to all portions of the site and work, suitable and adequate fire protection equipment and services. Such facilities shall include, but not be limited to, the furnishing and maintaining in good working order a minimum of two standard, Underwriters's Laboratories labeled, 2-1/2 gal. capacity fire extinguishers per area per floor.
- D. Smoking shall be prohibited at the Site and signs to this effect shall be posted conspicuously.
- E. Fires shall not be built at the Site.
- F. Strict safety precautions shall be observed when burning with a torch or using other open flames. Each Subcontractor shall provide adequate type and number of portable fire extinguishers so that wherever and whenever a torch or open flame is used, a fire watch armed with an appropriate fire extinguisher shall be used. Comply with local fire watch requirements, obtain Hot Work Permit for each day as required.
- G. Provide fire extinguishers, visible and accessible from space being served, with sign mounted above:
 1. Field Offices: Class A stored-pressure water-type extinguishers.
 2. Other Locations: Class ABC dry-chemical extinguishers or a combination of extinguishers of NFPA-recommend classes for exposures.
 3. Locate fire extinguishers where convenient and effective for their intended purpose; provide not less than one extinguisher on each floor at or near each useable stairwell.
- H. Store combustible materials in containers in fire-safe locations.
- I. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
- J. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
- K. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign

stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

1.4 TEMPORARY BRACING, SHORING, SHEETING, TIE-DOWN

- A. Each Subcontractor shall take all precautions to protect the Work against collapse or other damage by earth or construction loads, high winds, snow and rain loads, damage by adverse weather conditions or geological disturbances, or other cause, by temporary bracing, shoring, sheeting, guying, lacing, covering, weighting, and other reasonable and prudent means.

1.5 TEMPORARY STAIRS, LADDERS, RAMPS, AND PLATFORMS

- A. The Contractor shall arrange to provide and maintain all necessary temporary stairs, ladders, ramps, platforms, and other temporary construction required for the proper execution of the work, all of which shall comply with requirements of the governing laws and codes.

1.6 TEMPORARY FENCING, BARRIERS, AND PARTITIONS

- A. Protection: The Contractor shall be fully responsible for security of the work areas of the site and for patrolling and protecting the work under construction and his and the Owner's materials stored or otherwise located on the site.

1.7 TEMPORARY PROTECTIVE NIGHT LIGHTING

- A. The Contractor shall be responsible to arrange for adequate outdoor lighting to illuminate stagings, stockpiles, trenches, dangerous projections, excavations and the like as required to protect the safety of workmen, other personnel, and the public and as an aid in the protection against theft and vandalism.

1.8 TEMPORARY UTILITIES AND FACILITIES

- A. General: Required services include, but are not limited to water, toilet facilities, electrical power, heating and ventilating, and telephones. Comply with service companies' recommendations for materials and methods, or engage service companies to install services. Locate and relocate services (as necessary) to minimize interference with construction operations.
- B. Materials may be new or used, but are required to be of adequate capacity for usage. Do not use materials constituting unsafe conditions, or that violate applicable codes and standards.
- C. Interface temporary utilities with each phase of construction as required.
- D. Temporary Vertical Transportation Use: Refer to Division 14 for temporary use of new elevators, escalators, and other vertical transportation.
- E. Temporary Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate. Cover finished, permanent stairs with protective covering of plywood or similar material so finishes will be undamaged at time of acceptance.

1.9 TEMPORARY ELECTRICITY AND LIGHTING

- A. Electric Power Service: Provide temporary power service for construction purposes, size to provide service required for power and lighting. Provide connections and extensions of services as required for construction operations.
 - 1. Pay cost for power service required.
 - 2. Furnish, install and maintain circuit and branch wiring, with area distribution boxes located

so that electricity is available for power and lighting throughout the construction by the use of construction type power cords. Install and maintain temporary equipment in accordance with applicable safety regulations.

3. Provide adequate artificial lighting for:
 - a. Work areas where natural light is not adequate for work;.
 - b. Areas of public access; and for:
 - c. Security/night-time illumination.

1.10 TEMPORARY HEATING, COOLING, AND VENTILATION

- A. Provide temporary facilities as required to:
 1. Maintain adequate environmental conditions facilitating work progress.
 2. Meet specified minimum conditions for installation of materials; and to protect materials and finishes from damage due to temperature and humidity.
 3. Maintain minimum ambient temperature above 50° F and below 90° F in areas where construction is in progress, unless indicated otherwise in specifications.
- B. Provide adequate forced ventilation of enclosed areas to:
 1. Cure installed materials;.
 2. Disperse humidity; and:
 3. Prevent hazardous accumulations of dust, fumes, vapors, and gases.
- C. Portable heaters: Use standard approved units complete with controls.
 1. Pay for power or other fuels (propane, and the like) used.
 - a. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed par.

1.11 TEMPORARY TELEPHONE/FAX SERVICE/E-MAIL/WIFI

- A. Provide temporary telephone service throughout construction period for common-use facilities. Provide minimum one direct line telephone service at construction site for Contractor's use:
 1. Provide a dedicated telephone line in each field office.
 2. Subscribe to e-mail service.
- B. At each telephone, post a list of important telephone numbers including:
 1. Police and fire departments.
 2. Ambulance service.
 3. Contractor's home office.
 4. Architect's office.
 5. Engineers' offices.
 6. Owner's office.
 7. Principal subcontractors' field and home offices.
- C. Provide an answering machine voice-mail service on superintendent's telephone.
- D. Provide superintendent with cellular telephone for use when away from field office.
- E. Internet Connection: Provide broadband internet connection to all computers and wifi internet connection for Owner's and Architect's use during site visits.

1.12 TEMPORARY WATER

- A. Provide water for construction purposes.
 - 1. A 3/4" metered water supply will be available for Contractor's use. Provide connections and extensions of services as required for construction operations.
 - 2. Install branch piping as required for construction; include appropriate pressure-reducing stations. Locate taps so water is available throughout the Project by use of hoses. Protect piping and fittings against freezing.
- B. Provide drinking water from a proven safe source for all those connected with the Work. Pipe or transport water in such a manner as to keep it clean and fresh. Serve in single service containers or sanitary drinking fountains.

1.13 DUST CONTROL

- A. Maintain air quality within the National Emission Standards for Hazardous Air Pollutants. Air pollutants being defined as that to which no ambient air quality standard is applicable and which in the judgment of the Administrator of the Environmental Protection Agency Clean Air Act may cause, or contribute to, an increase in mortality or an increase in serious irreversible or incapacitating reversible illness.
- B. Dust Control: The Contractor shall direct all measures required to control generation of dust, and to contain subcontractor-generated dust, inside or outside of the buildings, to the work areas. Use water fog and mist (riot spray or stream) to dampen dusty areas. Contain waste debris disposal operations in enclosures, chutes and covered containers.
 - 1. The Contractor shall ensure that excessive particulate matter emissions, nuisance dust conditions of PM10 (particulate matter with an aerodynamic diameter less than or equal to 10 microns) concentrations not exceed 150 pg/cu.m. on a 24-hour average basis.
 - 2. If the spread of construction generated dust to neighboring property is found to be objectionable, the Contractor shall increase efforts to contain construction dust until acceptable conditions are obtained to the satisfaction of the Owner.
 - 3. Workers in dusty areas shall be equipped with protection and safety facilities in accordance with requirements of authorities having jurisdiction.
 - 4. Dust and other debris resulting from work with painted materials or hazardous material shall be lawfully disposed of, and all treatment of hazardous material shall conform to requirements of authorities having jurisdiction.
- C. Dust Control Practices: Practices to be employed on-site on an as-needed basis include but are not limited to the following:
 - 1. Install wheel wash stations, with proper provision for runoff of waste water and debris. Submit proposed locations and methods for approval by Architect.
 - 2. Spray all aggregate piles and excavated materials with water soluble, non-toxic, non-reactive, non-volatile, and non-foaming agents.
 - 3. Institute a procedure for street sweeping on a regular basis.
 - 4. Where necessary and as directed by the Owner, attach windscreens of durable fabric mesh of 50 percent porosity to construction fences.
 - 5. Cover active and inactive stockpiles with plastic tarps secured with sandbags or an equivalent method to prevent the cover from being dislodged by the wind.
 - 6. Minimize the free drop height of excavated or aggregate material during batch drop operations such as earthwork with front-end loader, clamshell bucket, or backhoe, to the extent practical.
 - 7. Place properly secured covers on truck cargo areas during transport.

1.14 NOISE CONTROL

- A. Conform to noise control regulations. Be familiar with applicable laws and ordinances.
 - 1. General: Equipment that can be electrically driven instead of gas or diesel is preferred. If noise levels on any gear cannot reasonably be brought down to criteria, do not use that gear. Conformance to this specification shall be included in the Contract price and no compensation will be allowed for special equipment, overtime, and the like that may be required.
 - 2. Outdoor Vehicle and Internal Combustion Engine Noise: Noise level of each piece of equipment shall not be greater than 86 dBA at a distance of 50 feet as measured under noisiest operating conditions. Rubber-tired equipment will be used whenever possible instead of equipment with metal tracks. Mufflers for stationary engines shall be hospital area quality of silencing.
 - 3. Air compressors: Equip with silencing packages. Electric driven are required.
 - 4. Jack Hammers and Roto Hammers: May be used if permitted by the Owner. Use core-drilling or saw cutting equipment. Time of use subject to approval by Owner.
- B. The Contractor shall endeavor at all times to maintain as low a level of construction noise as practicable in order not to create a disturbance in the neighborhood or the Owner's premises in conformance to local requirements and other specified requirements.
 - 1. The Contractor will prepare a noise monitoring plan prior to construction. The plan shall consist of locations where noise monitoring will be performed, type of measurement device, data reporting methods, response and resolution procedures, and method for periodic inspections of equipment mufflers.
 - 2. Any complaints duly registered by the Owner of unacceptable noise levels shall be cause for the use of special precautions and methods of operation by the Contractor to reduce noise to acceptable levels, at no additional cost to the Owner.
 - 3. The Owner shall be the sole judge of the tolerability of noise levels as defined herein. Measurement of noise levels will be at the centerline of the roadway surrounding the Site.
 - 4. Any high noise level operations intended to occur during early morning and evening hours or weekends shall be subject to review and approval by the Owner prior to proceeding.
- C. Noise Levels: The Contractor shall be responsible for ensuring that the following criteria are complied with:
 - 1. Truck and equipment mufflers shall be periodically inspected for proper operation.
 - 2. Low-pitch backup alarms shall be used.
 - 3. Sound barriers shall be erected if noise limits exceeding those allowed are anticipated.
 - 4. Daytime, evening and night time construction noise levels at noise-sensitive locations shall not exceed 85dBA as identified in the table.
 - 5. The operation of equipment at full-load capacity shall not exceed the maximum noise limits specified.
 - 6. The use of equipment with potentially higher noise levels shall be prohibited within 200 feet of a noise-sensitive location during night time hours.
 - 7. To the extent practical, staging of compressors, pumps and similar pieces of equipment that remain stationary throughout the construction period shall be located away from sensitive receptors whenever possible.

1.15 POLLUTION CONTROL

- A. Provide methods, means, and facilities required to prevent contamination of soil, water, or atmosphere. Allow no discharge of noxious substances or fumes from construction operations.

- B. Provide equipment and personnel; perform emergency measures required to contain spillages. Remove contaminated soils and liquids.
 - 1. Excavate and dispose of earth contaminated by Contractor operations off-site in compliance with laws and regulations.
 - 2. Replace with suitable compacted fill and topsoil. Provide Owner with receipt of soil acceptability prior to installation.
- C. Take special measures to prevent harmful substances from entering public waters.
 - 1. Prevent disposal of wastes, effluents, chemicals, or other such substances in or adjacent to bodies of water, or in sanitary or storm sewers.
- D. Provide systems for control of atmospheric pollutants in accordance with Federal/State/Local published rules and regulations.
 - 1. Prevent toxic concentrations of chemicals.
 - 2. Prevent harmful dispersal of pollutants into the atmosphere or building HVAC systems in the adjacent surrounding buildings.

1.16 EROSION AND SEDIMENT CONTROL

- A. Maintain temporary protection of erodible soils which have been set up by the military base. Employ methods as may be necessary to effectively prevent erosion and control sedimentation.
- B. Mechanically retard and control runoff rate. This includes construction of diversion ditches, benches, and berms to retard and divert runoff to protected drainage courses.
- C. Temporary erosion and siltation control work shall conform to the local and state requirements except costs for the work shall be considered incidental to and included in the contract.
- D. Periodically inspect earthwork to detect any evidence of the start of erosion, apply corrective measures as required to control erosion.

1.17 WATER CONTROL

- A. The Contractor shall be responsible for maintaining site drainage and snow removal at the Site and in public roadways as it affects construction operations only and shall maintain such drainage and removal during the life of the Contract in a manner approved by the Owner and Architect, and so as not to adversely affect the adjacent areas.
- B. Water from trenches and excavations shall be disposed of in such manner as will not be a threat to public health nor cause damage to public or private property. It shall not be disposed of over surfaces of roads, walks, and streets, nor be permitted to cause any interference with the normal use of same.
- C. Removal of snow and ice at the Site shall be as required to maintain the continual progress of the Work including that required to keep work areas, access roads, storage areas, clear, free, and in use, and as required to prevent damage to existing construction and new work in place.

1.18 MOISTURE AND MOLD CONTROL

- A. Contractor's Moisture-Protection Plan: Describe delivery, handling, storage, installation, and protection provisions for materials subject to water absorption or water damage.
 - 1. Indicate procedures for discarding water-damaged materials, protocols for mitigating water

- intrusion into completed Work, and replacing water-damaged Work.
2. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.
 3. Indicate methods to be used to avoid trapping water in finished work.
- B. Exposed Construction Period: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
1. Protect porous materials from water damage.
 2. Protect stored and installed material from flowing or standing water.
 3. Keep porous and organic materials from coming into prolonged contact with concrete.
 4. Remove standing water from decks.
 5. Keep deck openings covered or dammed.
- C. Partially Enclosed Construction Period: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
 2. Keep interior spaces reasonably clean and protected from water damage.
 3. Periodically collect and remove waste containing cellulose or other organic matter.
 4. Discard or replace water-damaged material.
 5. Do not install material that is wet.
 6. Discard and replace stored or installed material that begins to grow mold.
 7. Perform work in a sequence that allows wet materials adequate time to dry before enclosing the material in gypsum board or other interior finishes.
- D. Controlled Construction Period: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
 2. Use temporary or permanent HVAC system to control humidity within ranges specified for installed and stored materials.
 3. Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water limits.
 - a. Hygroscopic materials that may support mold growth, including wood and gypsum-based products, that become wet during the course of construction and remain wet for 48 hours are considered defective and require replacing.
 - b. Measure moisture content of materials that have been exposed to moisture during construction operations or after installation. Record readings beginning at time of exposure and continuing daily for 48 hours. Identify materials containing moisture levels higher than allowed. Report findings in writing to Architect.
 - c. Remove and replace materials that cannot be completely restored to their manufactured moisture level within 48 hours.

1.19 PROTECTION OF CONSTRUCTION

- A. The Contractor shall be responsible for protecting all finished surfaces against possible damage from operations under this Contract and shall restore or replace all surfaces that are damaged by operations under this Contract to the original condition, to the satisfaction of the Architect, at no change to the Contract Sum.

- B. When new finished flooring is completed in an area, it shall be protected by the Contractor from dirt and damage by covering with heavy paper or other approved covering. Protective covering shall be replaced if it becomes torn or otherwise damaged. If such new flooring is damaged prior to acceptance by the Owner, such damage shall be repaired at no change to the Contract Sum.
- C. The Contractor shall be responsible for keeping traffic on roofs to an absolute minimum and shall permit traffic only as required to complete the work under the contract. Protect roof surfaces to prevent damage, and repair or replace damaged roofing and substrates by any necessary means, in accordance with specifications and the requirements and recommendations of the manufacturer of the affected roofing system, to the satisfaction of the Architect, at no change to the Contract Sum.
- D. The Contractor shall not load, or allow any part of the structure to be loaded, with a weight that will endanger its safety or the safety of personnel operating in or around the premises.

1.20 TEMPORARY FIELD OFFICES

- A. Temporary field offices for the Contractor shall be established at the site. Subcontractors shall provide additional field offices if required for the proper progress of the Work, located as approved by the Contractor.
 - 1. General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
 - 2. Temporary field office construction and facilities shall be removed as directed by the Contractor. Removal of temporary facilities is not a requirement for Substantial Completion.
- B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, Contractor, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:
 - 1. Furniture required for Project-site documents including file cabinets, plan tables, plan racks, and bookcases.
 - 2. Conference room of sufficient size to accommodate meetings of 16 individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and 4-foot- square tack and marker boards.
 - 3. Drinking water and at least two private toilets.
 - 4. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
 - 5. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.
 - 6. Broadband data connection with wifi.
 - 7. Provide securable lockers, including minimum three full-height lockers for storage of architect's PPE between visits and personal/work belongings during site visits.

1.21 TEMPORARY STORAGE FACILITIES

- A. Space for storage of materials shall be confined to areas designated for each Phase, at specific locations as directed or approved by the Contractor.
- B. The Contractor shall provide temporary storage sheds and other covered storage facilities for the storage of materials which are subject to damage by weather, as required.
- C. Prior to completion of construction, when required for the completion of site work, as directed or approved by the Contractor, all temporary storage facilities and surplus materials shall be removed

from the site.

- D. Storage of material within the new structure will be permitted only with the approval of the Contractor and only provided such storage, and the handling required thereby, does not damage or overload the building structure, does not damage other completed work and finishes, does not interfere with the safe and expeditious performance of the work, and does not cause a fire hazard as determined by the Contractor.

1.22 CONSTRUCTION AIDS

- A. Materials may be new or used.
 - 1. Materials are to be suitable for intended purposes.
 - 2. Materials are to be in conformance with all governing codes, ordinances, and Standards.
- B. Provide construction aids, equipment and operating personnel as required to facilitate execution of work.
 - 1. Include scaffolds, staging, ladders, stairs, ramps, runways, platforms, railings, hoists, cranes, chutes, protective enclosures, silt fences, and other such facilities and equipment.
- C. Maintain facilities and equipment in a first-class condition.

1.23 TEMPORARY ENCLOSURES

- A. Provide temporary weathertight enclosure of exterior walls for successive areas of the building as work progresses to assure:
 - 1. Acceptable working conditions.
 - 2. Weather protection for interior materials.
 - 3. Effective temporary heating.
 - 4. Prevention of entry/unauthorized persons, and the like. Provide temporary exterior doors with padlocks.
 - 5. Provide other enclosures as required. Construct to be removable to facilitate work and handling of materials.
- B. Provide other protective enclosures as required or indicated. Construct protective enclosures to be removable to facilitate work and handling of materials.

1.24 PROJECT IDENTIFICATION

- A. Work includes but is not limited to following:
 - 1. Furnishing, installing and maintaining temporary on-site informational signs and any other indicated or required by governing authorities:
 - a. To identify Project.
 - b. To direct traffic.
 - c. Temporary hazardous materials and waste storage must be signed according to state and local fire codes as well as applicable local, state and federal regulations.
 - 2. Allow no sign or graphic that is objectionable to Owner, or prohibited by city or county.
 - 3. Remove signs on completion of construction.
- B. Informational Signs: Painted signs with painted lettering or standard products.
 - 1. Size of signs and lettering as required by regulatory agencies, or as appropriate to the usage.
 - 2. Colors as required by regulatory agencies, otherwise of uniform colors throughout the project.

3. Graphic design, style of lettering, and colors as indicated or directed.

C. Sign Materials:

1. Sign Surfaces: Exterior MDO plywood, 3/4" thickness, with plastic sealed and sanded edges.
2. Sign Posts: 4" x 4" pressure treated and painted white.
3. Paint: Exterior quality. Use "Bulletin" colors for graphics. Colors for structure, framing, sign surfaces, and graphics as indicated or directed.
4. Rough Hardware: Galvanized.

- D. No contractor advertising allowed on or near the project site, except as included in the Project Sign.

1.25 PARKING FACILITIES AND CONTROL AND CONSTRUCTION DELIVERIES

- A. The Contractor shall control the use and Parking of trucks and worker's vehicles to prevent congestion in the vicinity of the Project, conforming to requirements of authorities having jurisdiction. No on-street parking by Subcontractors is permitted. The Contractor shall be responsible for directing the workers to make other arrangements.

1.26 TEMPORARY PAVING

- A. The Contractor shall direct the construction and maintenance of temporary roads, walks and paving to support the indicated loading adequately to withstand exposure to traffic during the construction period. Locate temporary paving for roads, , and parking where the same permanent facilities will be located.
- B. Paving: Comply with applicable Division 2 Sections for construction and maintenance of temporary paving.
1. Coordinate temporary paving development with subgrade grading, compaction, installation and stabilization of subbase, and installation of base and finish courses of permanent paving.
 2. Install temporary paving to minimize the need to rework the installations and to result in permanent roads and paved areas without damage or deterioration when occupied by the Owner.
 3. Delay installation of the final course of permanent asphalt concrete paving until immediately before Substantial Completion or other milestone date established by the Contractor. Coordinate with weather conditions to avoid unsatisfactory results.
 4. Extend temporary paving in and around the construction area as necessary to accommodate delivery and storage of materials, equipment usage, administration, and supervision.
- C. On completion of work where temporary paving has been installed, remove and properly dispose of temporary paving, and restore surface to original condition, or install indicated site development.

1.27 SECURITY

- A. Provide adequate security to protect the building and work site from unauthorized entry. The Contractor is solely responsible for any theft, damage, or injury caused by a breach of such security.
- B. Initiate security program promptly after job mobilization, when enclosure fence, gates, and temporary enclosures are installed.
- C. Maintain security program throughout construction period, until Owner occupancy or Owner acceptance precludes the need for Contractor security.

- D. Personnel: Exclude from site personnel not properly identified.
- E. Entrance Control:
 - 1. Provide control of all persons and vehicles entering and leaving Project site.
 - 2. Allow entrance only to authorized persons with proper identifications.

1.28 COLLECTION AND DISPOSAL OF WASTE

- A. The Contractor shall direct compliance with requirements of Section 01 7419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL. Provide identifiable waste receptacles distributed conveniently around the site and throughout the buildings. Provide separate containers for combustible and non-combustible waste. Collect waste from construction areas and elsewhere daily: waste shall not be left in the buildings overnight, nor in open containers on the site. 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 deg F. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material lawfully. Refer to Safety Requirements and Hazardous Materials Sections for additional requirements.
- B. Provide metal chutes as required. Chutes shall be reasonably dust tight, properly constructed and supported. Chutes shall have Offset angled discharge to either a container or truck loading point, with adequate protection against release of debris and dust at the discharge. Institute dust control measures whenever chute is in use.
- C. Do not permit any material to be thrown or discharged from the windows or the roofs of the building.
- D. Packaging materials for all products, materials and equipment shall be promptly removed from the building on unpacking each item.
- E. Provide proper and lawful means of disposal of all wastes generated in the work. Waste water from cleaning operations, including cleaning of masonry, may contain material that may not be discharged into public sewers, and the Contractor shall provide suitable means for holding, filtering and legally disposing of such waste water.

1.29 MAINTENANCE OF STREETS, WALKS, AND GROUNDS

- A. The Contractor shall arrange to maintain all access roads and walks in areas under his control clear of debris and obstructions during entire time of the Contract. The Contractor shall also be responsible for the repair of off-site Streets, curbs, sidewalks, poles, and similar items, where disturbed or damaged by operations under this Contract, and leave them in as good condition after completion of the Work as before operations started. The Contractor shall immediately notify the Owner and proper authorities in case of damage to utilities, municipal property, or the Owner's property. Work in public ways shall conform to applicable provisions of the Contract Documents, or to higher requirements of local authorities having jurisdiction.
 - 1. Provide wheel wash stations and drained platforms to minimize dirt tracked onto city streets. Provide street sweepers on a regular basis to remove debris tracked onto city streets.
- B. The Contractor shall remove all snow and ice that may interfere with the work, damage the materials or finishes, adversely affect subsurfaces, impede workers, the public or in any way interfere with the normal progress of the work. Removal shall occur promptly so as to continuously leave roads and walks on the Site and immediately adjacent to the site safe for vehicular and pedestrian passage. Where necessary to maintain access or room for operations, Contractor shall

haul snow and ice to a lawful disposal area off the site at no additional cost to the Owner.

- C. No unauthorized entry, passage through, or storage or disposal of materials shall be made upon any part of the site or adjoining property.

1.30 MUNICIPAL POLICE AND FIRE DEPARTMENT SERVICES

- A. The Contractor shall direct necessary arrangements with the municipal police and fire departments in advance of time when regular off-duty, or reserve police officer or firefighters will be needed for traffic control or fire watch for operations of the Contract. Pay police officers and firefighters at the prevailing wage rates of the municipality for such services.

1.31 MAINTENANCE, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. Limit waste and abuse.
- B. Maintenance: Maintain temporary facilities in operating condition; repair damages immediately upon discovery. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour per day basis.
- C. Termination and Removal: Unless otherwise requested by Owner or Architect, remove each temporary facility when no longer useful, or when replaced by permanent facility. Clean and renovate permanent facilities that have been used during construction period.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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