

SECTION 01600 – MATERIALS AND EQUIPMENT

PART 1 – GENERAL

1.1 DESCRIPTION

- A. CONTRACTOR shall make all arrangements for transportation, delivery and handling of equipment and materials required for prosecution and completion of the work.
- B. Shipments of materials to CONTRACTOR or Subcontractors shall be delivered to the site only during regular working hours. Shipments shall be addressed and consigned to the proper party giving name of Project, street number and AGENCY. Shipments shall not be delivered to AGENCY except where otherwise directed.
- C. If necessary to move stored materials and equipment during construction, CONTRACTOR shall move or cause to be moved materials and equipment without any additional compensation.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 01300 – Record Drawings and Submittals

1.3 PRODUCTS

- A. Do not use materials and equipment removed from existing premises, except as specifically permitted by the AGENCY.

1.4 DELIVERY

- A. Arrange deliveries of products in accord with construction schedules and in ample time to facilitate inspection prior to installation.
- B. Coordinate deliveries to avoid conflict with work and conditions at site and to accommodate the following:
 - 1. Work of AGENCY.
 - 2. Limitations of storage space.
 - 3. Availability of equipment and personnel for handling products.
 - 4. AGENCY's use of premises.
- C. Do not have products delivered to project site until related Shop Drawings have been approved by the AGENCY.
- D. Do not have products delivered to site until required storage facilities have been provided.

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- E. Have products delivered to site in manufacturer's original, unopened, labeled containers. Keep AGENCY informed of delivery of all equipment to be incorporated in the work.
- F. Partial deliveries of component parts of equipment shall be clearly marked to identify the equipment, to permit easy accumulation of parts and to facilitate assembly.
- G. Immediately upon delivery, inspect shipment to assure:
 - 1. Product complies with requirements of Contract Documents and reviewed submittals.
 - 2. Quantities are correct.
 - 3. Containers and packages are intact, labels are legible.
 - 4. Products are properly protected and undamaged.

1.4 PRODUCT HANDLING

- A. Provide equipment and personnel necessary to handle products, including those provided by AGENCY, by methods to prevent soiling or damage to products or packaging.
- B. Provide additional protection during handling as necessary to prevent scraping, marring or otherwise damaging products or surrounding surfaces.
- C. Handle products by methods to prevent bending or overstressing.
- D. Lift heavy components only at designated lifting points.
- E. Materials and equipment shall at all times be handled in a safe manner and as recommended by manufacturer or supplier so that no damage will occur to them. Do not drop, roll or skid products off delivery vehicles. Hand carry or use suitable materials handling equipment.

1.5 PRODUCT STORAGE

- A. Store and protect materials in accordance with manufacturer's recommendations and requirements of the Approved Documents.
- B. Manufacturer's product containers shall not be opened until time of installation.
- C. CONTRACTOR shall make all arrangements and provisions necessary for the storage of materials and equipment. All excavated materials, construction equipment, and materials and equipment to be incorporated into the work shall be placed so as not to injure any part of the work or existing facilities, and so that free access can be maintained at all times to all parts of the work and to all public utility installations in the vicinity of the work. Materials and equipment shall be

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kept neatly and compactly stored in locations that will cause a minimum of inconvenience to the AGENCY, other CONTRACTORS, public travel, adjoining owners, tenants, and occupants. Arrange storage in a manner to provide easy access for inspection.

- D. Areas available for storage of materials and equipment shall be within the project site or at other sites approved by the AGENCY.
- E. Materials and equipment shall be stored to facilitate inspection and to ensure preservation of the quality and fitness of the work, including proper protection against damage by freezing and moisture.
 - 1. Arrange storage to provide access for inspection and inventory control.
 - a. Periodically inspect to ensure products are undamaged, and are maintained under required conditions.
 - b. Maintain an inventory of materials stored to facilitate inspection.
 - 2. Store products in accordance with manufacturer's written instructions, with seals and labels intact and legible. Store sensitive products in weather-tight enclosures; maintain within temperature and humidity ranges required by manufacturer's written instructions.
- F. Protect products against moisture, temperature extremes, dust, debris, tampering, vandalism, ultraviolet radiation, or damage from improper handling, storage or exposure. Protect exposed metals from rust and corrosion even though they will be sandblasted or otherwise cleaned before painting.
- G. Products subject to damage by moisture, freezing, UV exposure, or other effects of the elements shall be stored inside weatherproof storage areas equipped with suitable temperature and moisture controls.
- H. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.
- I. Store loose granular materials on solid surfaces in a well-drained area; prevent mixing with foreign matter.
- J. If necessary to relocate stored materials and equipment prior to or during construction, CONTRACTOR shall move materials and equipment without any additional compensation.

PART 2 – MATERIALS (NOT USED)

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PART 3 – EXECUTION (NOT USED)

****END OF SECTION****