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The TEXT indicated with < > is to be selected or filled in by the Specifier to meet the requirements of the project.

If any of the SECTIONS (i.e. 1.02, 1.03, etc.) below are not required for the project do NOT delete the Section, but rather change the title of the Section to “NOT USED” (i.e. 1.02 NOT USED) so that numbering of specification references is preserved, and delete the specification language in this Section below the title.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Products.
- B. Products selection.
- C. Product delivery requirements.
- D. Receiving, unloading and storing.
- E. General storage.
- F. Enclosed storage.
- G. Exterior storage.
- H. Maintenance of storage.
- I. Maintenance of equipment.
- J. Product list.
- K. Existing product requirements.

1.02 PRODUCTS

- A. Unless specific products are specified in these Specifications, CONTRACTOR shall provide products of qualified manufacturers suitable for the intended use. CONTRACTOR shall provide products of each type by a single manufacturer unless specified otherwise.
- B. CONTRACTOR may only submit substitutions as defined in Section 01 25 13 – Product Substitution Procedures.
- C. CONTRACTOR shall not reuse materials and equipment removed from existing premises, except as specifically permitted by the Contract Documents.
- D. CONTRACTOR shall provide interchangeable components of the same manufacturer for components being replaced.
- E. CONTRACTOR shall provide products that comply with the Contract Documents, are undamaged, are Asbestos free, and, unless otherwise indicated, are new at time of installation.

- F. CONTRACTOR shall consider products that have a lesser or reduced effect on human health, the environment, regulatory obligations, and disposal costs when compared with competing products of similar quality that serve the same purpose.
- G. Where CONTRACTOR determines or has concerns that a specified product may not be appropriate for the intended application, CONTRACTOR shall immediately notify UTILITIES <and Engineer> and seek direction from UTILITIES <and Engineer> prior to proceeding with use or application of the specified product.

1.03 PRODUCTS SELECTION

- A. When products are specified by standard or specification designations of technical societies, organizations, or associations only, CONTRACTOR shall provide products that meet or exceed reference standard and Specifications.
- B. When products are specified with names of manufacturers but no model numbers or catalog designations, CONTRACTOR shall provide:
 - 1. Products made by one of the named manufacturers that meet or exceed Specifications.
 - 2. An approved "Or Equal".
- C. When products are specified with names of manufacturers and model numbers or catalog designations, CONTRACTOR shall provide:
 - 1. Products with model numbers or catalog designations made by one of the named manufacturers.
 - 2. <An approved "Or Equal".>
- D. When products are specified with only one manufacture, brand or trade names, model numbers, or catalog designations, CONTRACTOR shall provide:
 - 1. Products specified by brand or trade name, model number, or catalog designation.
- E. When Products are specified with only one manufacturer followed by "Or Equal," CONTRACTOR shall provide:
 - 1. Products meeting or exceeding the Specifications of the specified manufacturer.
 - 2. An approved "Or Equal".
- F. "Or Equal" Items: If in UTILITIES' sole discretion an item of material or equipment proposed by CONTRACTOR is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by UTILITIES as an "or equal" item, in which case review and approval of the proposed item may, in UTILITIES' sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items.

1.04 PRODUCT DELIVERY REQUIREMENTS

- A. CONTRACTOR shall transport and handle products in accordance with the manufacturer's instructions.
- B. CONTRACTOR shall promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- C. CONTRACTOR shall provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- D. CONTRACTOR shall maintain bill of ladings and delivery tickets for record documentation and to support invoicing as required.

1.05 RECEIVING, UNLOADING AND STORING

- A. CONTRACTOR shall receive and unload shipments to the Site from Suppliers of equipment under this Contract. < CONTRACTOR shall receive and unload UTILITIES-furnished equipment as defined in the Contract Documents.>
- B. CONTRACTOR shall unload equipment as soon as possible after arrival.
- C. CONTRACTOR shall pay freight car and truck demurrage, detention, and any other costs which may be billed to UTILITIES or CONTRACTOR due to CONTRACTOR's failure to unload cars or trucks within time required by freight companies.
- D. CONTRACTOR shall provide physical protection for equipment placed in storage, as follows:
 - 1. Store and maintain materials and equipment immediately after receipt until completed installation is accepted by UTILITIES. Such storage and maintenance shall be in accordance with manufacturer's recommendations and requirements of these Specifications. Provide materials, equipment, and labor required for such storage and maintenance.
 - 2. Account for any deterioration of materials or equipment occasioned by improper storage or maintenance, and recondition, repair, or replace any such materials or equipment without additional cost to UTILITIES.
 - 3. Maintenance performed as required by manufactures shall be documented and submitted to UTILITIES <and Engineer> prior to installation.
- E. CONTRACTOR shall take custody of equipment and materials received, including UTILITIES' furnished equipment and materials, and shall be solely responsible for damage and shortages until acceptance of CONTRACTOR's work by UTILITIES. CONTRACTOR shall inform UTILITIES <and Engineer> immediately if UTILITIES' furnished equipment and material arrives damaged. CONTRACTOR shall provide photographs, bill of lading denoting damage signed by the deliverer, and any additional relevant documentation to record the defect of the UTILITIES' furnished equipment to assist in corrective action with the manufacturer.
- F. Storage areas may be allocated by UTILITIES for CONTRACTOR's use. CONTRACTOR shall store equipment and materials in assigned or approved lay-down areas.

1.06 GENERAL STORAGE

- A. CONTRACTOR shall protect products from theft, vandalism and unauthorized access.
- B. CONTRACTOR shall arrange storage in manner to provide access for maintenance of stored items and for inspection.

1.07 ENCLOSED STORAGE

- A. CONTRACTOR shall store products subject to damage by elements in weathertight enclosures, as required by manufacturer's instructions.
- B. CONTRACTOR shall maintain temperature and humidity within ranges, as required by manufacturer's instructions.
- C. CONTRACTOR shall provide <humidity control and> ventilation for sensitive products, as required by manufacturer's instructions.
- D. CONTRACTOR shall store unpacked and loose products on shelves, in bins, or in neat groups of like items.

1.08 EXTERIOR STORAGE

- A. CONTRACTOR shall provide substantial platforms, blocking, or skids, to support fabricated products above ground and slope to provide drainage. CONTRACTOR shall protect products from soiling and staining.

- B. CONTRACTOR shall cover products subject to discoloration or deterioration from exposure to elements with impervious sheet material. CONTRACTOR shall provide such products with ventilation adequate to avoid condensation.
- C. CONTRACTOR shall store loose granular materials on clean, solid surfaces such as pavement, or on rigid sheet materials, to prevent mixing with foreign matter.
- D. CONTRACTOR shall provide surface drainage to prevent flow or ponding of rainwater.
- E. CONTRACTOR shall prevent mixing of refuse or chemically injurious materials or liquids.

1.09 MAINTENANCE OF STORAGE

- A. CONTRACTOR shall inspect stored products per the manufacturer's recommended schedule.
<Maintain log of inspections, make available to UTILITIES upon request.>
- B. CONTRACTOR shall verify storage facilities comply with manufacturer's product storage requirements.
- C. CONTRACTOR shall verify manufacturer required environmental conditions are maintained continually.
- D. CONTRACTOR shall verify surfaces of products exposed to elements are not adversely affected and if weathering of finishes is acceptable under requirements of Contract Documents.

1.10 MAINTENANCE OF EQUIPMENT STORAGE

- A. For equipment in long-term storage, CONTRACTOR shall ensure manufacturer's service instructions accompany each item, with notice of enclosed instructions shown on exterior of package.
- B. CONTRACTOR shall service equipment on a regularly scheduled basis in accordance with the manufacturer's recommendations, maintaining a log of services and submit such log as a record document.

1.11 PRODUCTS LIST

- A. Within <30> days after effective date of Contract, CONTRACTOR shall submit to UTILITIES <and Engineer> a complete list of products, including those specified only by reference standard, which are proposed for installation.
- B. Tabulate products by Specification section number and title.
 - 1. List for each product, as applicable:
 - a. Name and address of manufacturer.
 - b. Trade name.
 - c. Model or catalog designation.
 - d. Manufacturer's data:
 - 1) Reference standards.
 - 2) Performance test data.
 - e. Storage requirements.
 - f. Manufacturer's maintenance requirement.
 - g. Warranty terms and contact information.
 - h. Manufacturer's local representative contact information.

1.12 EXISTING PRODUCT REQUIREMENTS

- A. The following items which are removed may be reused provided they are in good condition and their reuse is approved by UTILITIES <and Engineer>.
 - 1. <Description of item.>

2. <Description of item.>
- B. Materials removed from plants, facilities and buildings and not reused shall become property of CONTRACTOR unless otherwise specified.
- C. Salvageable materials and equipment removed and not reused shall be stored in place designated by UTILITIES and shall remain UTILITIES's property.
- D. At the UTILITIES's option, UTILITIES may obtain the value of all scrap materials removed from existing plants, facilities, buildings, structures, areas, or systems and not reused.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.01 SUBMITTALS

- A. Submittals to be provided by the CONTRACTOR shall include but are not limited to the following:
 1. Product List.
 2. Maintenance Log.
 3. Custody Transfer Log.

END OF SECTION