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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. Closeout procedures.
- B. Final cleaning.
- C. Starting of systems.
- D. Demonstration and instructions.
- E. Testing, adjusting and balancing.
- F. Protecting installed construction.
- G. Project record documents.
- H. Spare parts and maintenance products.
- I. Special tools.
- J. Product warranties and product bonds.

1.02 CLOSEOUT PROCEDURES

- A. CONTRACTOR shall request Substantial Completion as specified in Section 01 77 00 – Closeout Procedures and General Conditions of the Contract.
- B. CONTRACTOR shall provide submittals to UTILITIES <and Engineer> that are required by the Contract Documents and Agencies Having Jurisdiction (AHJ).
- C. Upon completion of all punch list items, CONTRACTOR shall submit final Application for Payment in accordance with Contract Documents.
- D. UTILITIES will make intended use of <all> <portions> of the Work as specified in Section 01 11 00 – Summary of Work and General Conditions of the Contract.

1.03 FINAL CLEANING

- A. CONTRACTOR shall execute a final cleaning of the Site prior to UTILITIES' final project assessment and Site walkdown.

- B. CONTRACTOR shall employ skilled workers for final cleaning. Additionally, CONTRACTOR shall:
 - 1. Carefully and thoroughly clean any new surfaces on exterior, concrete, metal, etc.
 - 2. Clean and polish all hardware and leave clean and free from paint, grease, dirt, etc.
 - 3. Carefully and thoroughly clean all items of equipment, and all mechanical and electrical components, cabinets, ductwork, etc.
 - 4. Thoroughly clean all floors. Mop resilient floor coverings as recommended by manufacturer of the flooring, then thoroughly machine buff as applicable per manufacturer's recommendations. Damp mop or scrub concrete floors as required to leave them thoroughly clean when plant, facility, or building is turned over to UTILITIES.
- C. CONTRACTOR shall remove grease, mastic, adhesives, dust, dirt stains, fingerprints, labels, and other foreign materials from sight-exposed interior and exterior surfaces, as well as all tools, appliances, construction equipment and machinery, and surplus materials.
- D. CONTRACTOR shall clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- E. CONTRACTOR shall clean debris from roofs, gutters, downspouts, and drainage systems.
- F. CONTRACTOR shall clean interior and exterior glass, surfaces exposed to view; and remove temporary labels, stains and foreign substances, and polish transparent and glossy surfaces, <vacuum carpeted and soft surfaces.>
- G. CONTRACTOR shall wash and shine glazing and mirrors.
- H. CONTRACTOR shall <Clean> <Replace> filters of operating equipment.
- I. Ventilating systems: CONTRACTOR shall:
 - 1. Clean permanent filters and replace disposable filters if units were operated during construction.
 - 2. Clean ducts, blowers, and coils if units were operated without filters during construction.
- J. CONTRACTOR shall sweep clean and as needed power wash exterior paved surfaces; rake clean other surfaces of the grounds, so as to leave the Site ready for occupancy by UTILITIES and restore those portions of Site not designated for alteration by Contract Documents to their condition as of beginning of Work.
- K. Prior to final completion, or UTILITIES' occupancy, CONTRACTOR shall conduct inspection of sight-exposed interior and exterior surfaces, and all work areas, to verify that entire Work is clean.
- L. CONTRACTOR shall remove waste and surplus materials, rubbish, and construction facilities from the site.
- M. Cleaning Supplies: CONTRACTOR shall:
 - 1. Use only those cleaning supplies which will not create hazards to health or property and which will not damage surfaces.
 - 2. Use only those cleaning supplies and methods recommended by manufacturer of surface material to be cleaned.
 - 3. Use cleaning supplies only on surface recommended by cleaning supply manufacturer.
- N. CONTRACTOR shall perform restoration, repairs, and cleaning work as required by the Authorities Having Jurisdiction per regulatory and permitting requirements.

1.04 STARTING OF SYSTEMS

- A. Reference Section 01 91 13 – General Commissioning Requirements.

1.05 DEMONSTRATION AND INSTRUCTIONS

- A. Reference Section 01 91 13 – General Commissioning Requirements.

1.06 TESTING, ADJUSTING, AND BALANCING

- A. Reference Section 01 91 13 – General Commissioning Requirements.

1.07 PROTECTING INSTALLED CONSTRUCTION

- A. CONTRACTOR shall protect installed Work and provide special protection where specified in individual specification sections.
- B. CONTRACTOR shall provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. CONTRACTOR shall provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. CONTRACTOR shall protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- E. CONTRACTOR shall prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, CONTRACTOR shall obtain recommendations for protection from waterproofing or roofing material manufacturer.
- F. CONTRACTOR shall prohibit traffic from accessing landscaped areas.

1.08 PROJECT RECORD DOCUMENTS

- A. Reference Section 01 77 00 - Closeout Procedures.

1.09 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. CONTRACTOR shall provide spare parts, maintenance, and extra products in quantities specified in individual specification sections.
- B. Prior to <Substantial Completion>, CONTRACTOR shall deliver spare parts to <Project site> and place in such location as directed by UTILITIES.

1.10 SPECIAL TOOLS

- A. Contractor shall provide any special tools, jigs, fixtures, and lifting tackle which are necessary for assembly, erection, operation, maintenance, and repair of equipment.
- B. Contractor shall provide any special tools, fixtures, and instruments which are necessary in assembly, operation, and maintenance of equipment.
- C. Special tools and devices are those whose design, purpose, and use of which are peculiar to equipment furnished and which are not available from normal wholesale or retail outlets. Standard general purpose tools are not included in this requirement.
- D. Contractor shall provide a neat and substantial metal tool box with hinged cover and lifting handles or metal cabinet with hinged door and prominently mark box or cabinet "TOOLS FOR _____."
<for each set of tools furnished.>

1.11 PRODUCT WARRANTIES AND PRODUCT BONDS

- A. CONTRACTOR shall execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.
- B. CONTRACTOR shall verify that documents are in proper form, contain full information, and are notarized.
- C. CONTRACTOR shall co-execute submittals when required.
- D. CONTRACTOR shall provide all warranties and bonds with a table of contents assemble in a <3-D side ring> <_____> binder with durable <plastic> <cloth> cover and provided via a bookmarked electronic PDF.
- E. CONTRACTOR shall submit all documentation required under this Section 1.11 prior to submission of its final Application for Payment as provided in F below.
- F. Time of Submittals:
 - 1. For equipment or component parts of equipment put into service during construction with UTILITIES' permission, CONTRACTOR shall submit documents within <10> <__> days after acceptance.
 - 2. CONTRACTOR shall make other submittals at Substantial Completion.
 - 3. For items of Work for which acceptance is delayed beyond Substantial Completion, CONTRACTOR shall submit all submittals within <10> <__> days after acceptance, listing the date of acceptance as the beginning of the warranty or bond period.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION