SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
   1. Installation of the Work.
   2. Progress cleaning.
   3. Starting and adjusting.
   4. Protection of installed construction.

B. Related Requirements:

   1. Section 011000 "Summary of Work " for limits on use of Project site.

1.2 QUALITY ASSURANCE

A. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer present, for compliance with installation tolerances and other conditions affecting performance. Record observations.

   1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
   2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
   3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

B. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Bidder, submit a request for information to Owner's Representative.

3.3 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation.
   1. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
   2. Conceal wiring in finished areas unless otherwise indicated.
   3. Do not install wiring or cables on finished surfaces unless authorized by the Owner.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure the best possible results.

D. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.

E. Tools and Equipment: Where possible, select tools or equipment that minimize production of excessive noise levels.

F. Attachment: Provide brackets and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, firmly anchored to blocking, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.

   1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Owner and/or Architect.

G. Remove and replace damaged, defective, or non-conforming Work.

3.4 PROGRESS CLEANING

A. General: Clean work areas daily, including common areas. Dispose of debris lawfully.

   1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.

   2. Coordinate progress cleaning for joint-use areas where Bidder and other contractors are working concurrently.

B. Site: Maintain work area free of waste materials and debris.

C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

F. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.

G. During handling and installation, clean and protect installation in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

H. Clean and provide maintenance on completed installation as frequently as necessary through the remainder of the installation period. Adjust and lubricate operable components to ensure operability without damaging effects.

I. Limiting Exposures: Supervise installation to ensure that no part of the installation, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the installation period.

3.5 STARTING AND ADJUSTING

A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.

B. Adjust equipment for proper operation.

C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.6 PROTECTION OF INSTALLED COMPONENTS

A. Cover, ventilate, and protect installed goods from damage caused by weather, moisture, heat, staining, dirt, abrasions, or other conditions that may adversely affect appearance or use.

B. Assure goods are installed at proper temperature and humidity as recommended by manufacturer

B. Protect against deterioration of finish, warpage, distortion, twisting, opening of joints and seams, delamination, or other injury.

C. Ensure that exposure to the following conditions is limited:

1. Excessive static or dynamic loading.
2. Excessively high or low humidity.
3. Punctures.
4. Abrasions.
5. Soiling, staining, and corrosion.
6. Combustion.
7. Theft.
8. Vandalism.

END OF SECTION 017300