

SECTION 15400

PLUMBING, GENERAL

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The work includes the providing of all labor, materials and services necessary to install the indicated systems complete with hangers, supports, equipment, and connections required to any equipment indicated or specified.
- B. The work includes, but is not limited to, the following:
 - 1. Removing, installing, and connecting new existing sinks.
 - 2. Furnishing and installing new piping to connect the existing fixtures to the existing plumbing system.
 - 3. The contractor shall obtain and pay for all permits and necessary fees for the completion of the work.
 - 4. Removing, reinstalling and connecting of existing gas ranges.

1.02 CODES AND STANDARDS

- A. All work shall comply with governing codes, ordinances and regulations of the City, County, and State having jurisdiction.

1.03 SITE VISIT

- A. All bidders are advised to visit the site and carefully examine the existing conditions before submitting bids, as no allowance will be made for lack of knowledge of existing conditions where such conditions may reasonably be determined by observation.

1.04 DRAWINGS

- A. Except where dimensions are shown, the drawings are not precise and shall not be scaled. Exact location of fixtures, apparatus and piping shall be determined by dimensions on the site.

1.05 JOB CONDITIONS

- A. The drawings indicate the locations of apparatus, fixtures and piping and shall be followed as closely as possible. If before the installation it is found necessary to change the location to accommodate conditions at the building, such changes shall be made at no additional cost to the Owner, and as approved by the Architect.

1.06 CUTTING AND PATCHING

- A. Where required, the Contractor shall do the cutting and patching using workmen who are skilled in the trade involved. The completed work shall present a finished, workmanlike appearance.

1.07 OPENING IN EXISTING CONSTRUCTION

- A. If required, opening in existing construction shall be core drilled or cut with masonry saw. Pneumatic tools will not be permitted.

1.08 TRAPS

- A. Each fixture shall be separately trapped.

1.09 GUARANTEE

- A. All equipment, material, accessories, and installation shall carry a guarantee against defects for a period of one year from date of acceptance. Each system as a whole and in all its parts shall be guaranteed to function correctly up to the specified capacity. Should a system, or any part thereof, fail to meet the performance requirements, necessary replacements, alterations or repairs shall be made to bring performance up to specified requirements. Building construction finishes damaged or marred shall be restored to the satisfaction of the Owner's representative. All of the above described shall be done without cost to the Owner.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. All materials shall be new. Systems shall be provided complete, and each system as a whole and in all of its parts shall function correctly up to the specified capacity. Should a system, or any part thereof, fail to meet performance requirements, necessary replacements, alterations, or repairs as required by the Architect shall be made to bring performance up to specified requirements and all building construction and finishes damaged or marred by such replacements, alterations or repairs shall be restored to prior condition at no additional cost to the Owner.

PART 3 - INSTALLATION

3.01 INSTALLATION AND WORKMANSHIP

- A. The work shall be performed by qualified mechanics and all materials, apparatus, and equipment shall be installed in a neat, workmanlike manner. Any materials, apparatus, or equipment which, in the opinion of the Architect, is improperly installed, shall be removed and re-installed in an approved manner at no additional cost to the Owner.
- B. The work shall be coordinated with the work of other trades. Where the work is dependent upon work of other trades or work already in place, such other work and work in place shall be examined and shall be in proper condition and state of completion before continuing the installation.
- C. The installation of the systems shall, in general, be in accordance with the drawings with regards to location of equipment.

3.02 PROTECTION OF WORK DURING CONSTRUCTION

- A. Protective covers, skids, plugs, caps, and coatings shall be provided to protect equipment and materials from damage during construction.
- B. Plug open ends of pipes when work is stopped to prevent debris from entering the pipes.

3.03 CLEAN UP

- A. Refer to General Conditions for cleaning-up.
- B. Clean all materials and equipment of dirt, dust, paint, spots, stains, soil marks, and other foreign matter.

3.04 FINAL INSPECTION

- A. With notice to the Architect/Engineer that the work is ready for final inspection, the Contractor shall submit the test and balance report for review and approval.
- B. The Contractor shall furnish necessary mechanics to operate the system, make necessary adjustments and assist with the final inspection.

3.05 MAINTENANCE DATA

- A. Operation, maintenance, and spare parts booklets shall be provided for all items of equipment requiring maintenance. Provide a minimum of three copies and turn over to the Owner's operating personnel. Bind in vinyl-covered three-ring binders.

END OF SECTION