

SECTION 230501 - MECHANICAL DEMOLITION, RELOCATION AND ALTERATION

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. Provide removal, relocation, rerouting and reconnecting of existing mechanical equipment, ductwork and piping, as shown and as required by Contract Documents, to accomplish alteration, restoration and to accommodate new construction. All existing components that will not remain in service shall be removed from the premises.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.
- B. The drawings and the specifications including SECTION 230500 "Common Work Results for HVAC" are hereby made a part of the work of this section.
- C. Section 012300 – ALTERNATES.
- D. Section 024120 - SELECTIVE STRUCTURE DEMOLITION

1.3 QUALITY ASSURANCE

- A. Regulatory Agencies and Codes – Comply with the following:
 - 1. Building Code – International Mechanical Code 2009
 - 2. Plumbing Code – Maine Plumbing Code
- B. Reference Standards – Comply with the following:
 - 1. American National Standards Institute (ANSI): Safety Requirements for Demolition – ANSI A10.6.
 - 2. National Fire Protection Association (NFPA): Safeguarding Building Construction and Demolition Operations – NFPA 241.
 - 3. US Environmental Protection Agency (EPA)

PART 2 - PRODUCTS

2.1 DESCRIPTION

- A. For materials required for this work, comply with the applicable specification sections in Divisions 22 and 23.

PART 3 - EXECUTION

3.1 GENERAL

- A. Provide alteration and demolition of mechanical facilities and piping systems as required by the drawings and specifications. Coordinate with the Demolition Drawings and existing field conditions.
- B. Do not begin work until time schedules and manner of operations have been approved by the Architect.
- C. Verify the location of all related existing equipment, piping and other mechanical facilities. Provide for the removal, relocation, rerouting and reconnecting of this work as required because of demolition methods or sequences employed. Obtain the Owner's permission prior to commencing any work.
- D. Comply with the installation procedures specified in the applicable specifications sections in Divisions 22 and 23.
- E. Where existing equipment must remain in service during construction, provide rerouting and reconnecting of mechanical services as required to maintain continuous service.
- F. Maintain system continuity and operation of piping or ductwork circuits, whether spliced, extended, relocated or newly constructed.
- G. If requested, store, on the site, materials and equipment to be salvaged for future use by the Owner.
- H. Ductwork, piping, hangers, supports, anchors, etc. shall be removed along with ductwork and piping shown to be removed. Cap ductwork where required.
- I. Where equipment, ductwork and piping is removed or disconnected under Divisions 22 and 23, perform the work in such a manner that no damage is done to the structure or remaining portions of the existing systems. Do not under any circumstances place a stress on existing ductwork or pipe and fittings which are to be reused. Be fully responsible for and repair, at no additional expense to the Owner, any leaks developing in existing piping or ductwork due to failure to take proper precautions when making alterations.

3.2 PIPING AND DUCTWORK

- A. Unused piping and ductwork shall be removed. Welded piping shall be cut off square at the locations indicated on the demolition drawings. Openings of any remaining valves, piping or fittings shall be closed off with weld caps or blind flanges to prevent debris from entering the existing systems.
- B. Unused piping shall be removed. Soldered or Threaded piping shall be disconnected at the location indicated on the demolition drawings or as required. Openings of remaining valves, piping, fittings and equipment shall be closed off with pipe plugs or pipe caps as required to prevent debris from entering the existing systems.
- C. Unused Pipe hangers, supports, and/or anchors shall be removed along with all piping shown or required to be removed. All piping to remain shall be adequately supported with hangers added if required.
- D. Provide shutoff valves to isolate new work from existing and temporary or permanent connections to new work as required for proper testing and cleaning of new work.

3.3 INSULATION

- A. Insulation shall be removed from all piping, fittings, valves and equipment designated for demolition.
- B. Comply with all safety precautions related to insulation removal.

* END OF SECTION *