

SECTION 02050DEMOLITIONPART 1 - GENERAL1.1 DESCRIPTION

## A. Work Included:

1. The Contractor shall furnish all labor, materials, tools, equipment and apparatus necessary and shall do all work required to complete the demolition, removal, and alterations of existing facilities as indicated on the Drawings, as herein specified, and/or as directed by the Engineer.
2. Demolition and alteration work within occupied areas shall be accomplished with minimum interference to the occupants and to the plant which shall be in continuous operation during construction.
3. All equipment, piping, and other materials that are not to be relocated or to be returned to the Owner shall become the property of the Contractor and shall be disposed of by him, away from the site of the work and at his own expense.
4. All demolition or removal of existing structures, utilities, equipment, and appurtenances shall be accomplished without damaging the integrity of existing structures, equipment, and appurtenances to remain, to be salvaged for relocation or stored for future use.
5. Such items that are damaged shall be either repaired or replaced at the Contractor's expense to a condition at least equal to that which existed prior to the start of his work.

## B. Related Work Specified Elsewhere: (When Applicable)

1. Earthwork is specified in Section 02200.
2. See Summary of Work, Section 01010.

1.2 JOB CONDITIONS

## A. Condition of Structures:

1. The Owner assumes no responsibility for the actual condition of structures to be demolished.
2. Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner as far as practicable. However, variations within the structures may occur due to Owner's removal and salvage operations prior to the start of demolition work (where applicable).

1.3 UTILITIES

## A. Utility Locations:

1. Utility locations shown on the plans are approximate only, based on information supplied by the utility companies.

## B. Coordination with Utilities:

1. The Contractor shall make all necessary arrangements and perform any necessary work to the satisfaction of affected utility companies and

governmental divisions involved with the discontinuance or interruption of affected public utilities and services.

1.4 SUBMITTALS

A. Schedule - Demolition:

1. Submit two (2) copies of proposed methods and operations of demolition to the Engineer for review prior to the start of work. Include in the schedule the coordination for shut-off, capping and continuation of utility services as required.
2. Provide a detailed sequence of demolition and removal work to ensure the uninterrupted progress of the Owner's operations.

1.5 PROTECTIONS:

- A. Ensure the safe passage of persons around the area of demolition. Conduct operations to prevent injury to adjacent buildings, structures, other facilities and persons. Erect temporary, covered passageways as required by authorities having jurisdiction.
- B. Provide interior and exterior shoring, bracing, or support to prevent movement, settlement or collapse of structures to be demolished and adjacent facilities to remain.

1.6 DAMAGES:

- A. The Contractor shall promptly repair damages caused by demolition operations to adjacent facilities at no cost to the Owner.

PART 2 - PRODUCTS

Not Applicable.

PART 3 - EXECUTION

3.1 PERFORMANCE

- A. Remove and dispose of non-salvageable material in accordance with all applicable local and state laws, ordinances and code requirements.
- B. Dispose of material daily as it accumulates.
- C. Carefully remove, store and protect from damage all materials to be salvaged.
- D. Buildings and Adjacent Property:
  1. Protect all buildings and property adjacent to equipment to be removed from damage by erecting suitable barriers or by other suitable means.
  2. Leave such buildings in a permanently safe and satisfactory condition.
- E. Maintaining Traffic:
  1. Ensure minimum interference with roads, streets, driveways, sidewalks and adjacent facilities.
  2. Do not close or obstruct streets, sidewalks, alleys or passageways without permission from authorities having jurisdiction.

- F. Architectural, structural, mechanical, process and electrical demolition, removal and alteration are indicated in the corresponding sections.
- G. Mechanical/Process Demolition:
  - 1. Mechanical/Process demolition in general shall consist of the dismantling and removal of existing piping, tanks, pumps, motors, equipment and other appurtenances as specified, and indicated on the Drawings.
  - 2. It shall also include, where necessary, the cutting of existing piping for the purpose of making connections thereto.
  - 3. Piping not indicated to be removed but which may interfere with construction shall be removed to the nearest solid support, capped and left in place. Where piping that is to be removed passes through the wall of existing structures, it shall be cut off and properly capped on each side of the wall.
  - 4. When piping is to be altered or removed underground, the remaining piping shall be properly capped or plugged.
  - 5. Abandoned underground piping shall be left in place unless it interferes with new structures or unless otherwise noted on the Drawings.
- F. Salvage:
  - 1. Salvaged items shall be stored on site for the Owner in an acceptable location and manner. The Owner shall identify those items that they wish to retain. The Contractor shall be responsible for all other demolished items.
- G. Tank Cleaning:
  - 1. The Owner shall be responsible for removal and disposal of the liquid contents of the existing tanks, which will be renovated as part of this project. The Owner will not be responsible for any cleaning of the tanks. Provide a minimum of 7 calendar days notice prior to requiring the tank to be drained. The Contractor can expect that the time required for draining, disposal of liquids, and cursory cleaning by the Owner to take up to 3 days per tank side.
  - 2. The Contractor shall be responsible for all cleaning of tank walls and floors (i.e. hosing down, pressure wash, brush-blast, etc.) to accommodate their ability to safely access tanks and perform the renovation work.
  - 3. If the demolition work does not commence within the Contractor's approved project schedule, the tank(s) may be placed back in operation by the Owner. It will then be the Contractor's responsibility to drain and clean the tanks. When the existing tank(s) are empty, clean the tank walls and floor using a high pressure steam cleaning device.
- H. Maintain Treatment:
  - 1. During demolition, maintain treatment as outlined in Section 01010, Summary of Work.
- I. Demolition Sequence:
  - 1. The demolition sequence is to conform the reviewed and approved project schedule, and restrictions outlined in Section 01310, Construction Schedules.

END OF SECTION