

SECTION 02050

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SECTION 02050

DEMOLITION

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Demolition of designated site structures, foundations, fencing, site lighting, and removal of materials from site.
- B. Demolition and removal of pavements, curbs and gutters, drainage structures, utilities, storm drains, signage or landscaping needed to construct the site.
- C. Disconnecting and capping or removal of utilities which are not proposed to be used as part of the proposed project.
- D. Filling voids in subgrade created as a result of removals or demolition.
- E. Removal and disposal of any existing solid waste.

1.02 RELATED SECTIONS

- A. Section 02100 - Site Preparation
- B. Section 02200- Earthwork
- C. Section 02227 – Aggregate Materials
- D. The work shall comply with the Erosion and Sedimentation Control Report appended to the end of Section 02270 (if applicable).
- E. Construction drawings.

1.03 PROJECT RECORD DOCUMENTS

- A. Accurately record actual locations of capped utilities, and subsurface obstructions.

1.04 PERMIT REQUIREMENTS

- A. The Owner is cautioned that certain sites may have special or hazardous wastes. The Owner or his designated agent should conduct due diligence reviews to determine the extent to which such materials may be encountered. These are not enumerated upon within the this specification.
- B. If the project is large enough to warrant a site location of development permit, the handling of solid waste must be conducted in accordance with the permit. Also, large projects may require a separate solid waste permit from the State of Maine.
- C. The City of Saco recycles pavements and masonry. The Director of Public Works should be consulted to determine which inert pavement or masonry will be accepted.

- D. Buildings or structures in the Historic District require a permit from the Historic Preservation Commission.
- E. Work within 500 feet of the Saco River may require approval of the Saco River Corridor Commission.
- F. Demolition involving 2000 s.f. requires site plan approval from the City of Saco.
- G. A demolition permit from Code Enforcement is required for any demolition greater than 100 s.f.
- H. Any work within 10 feet of overhead power lines shall conform to the State of Maine Overhead High Voltage Line Safety Act.
- I. All trucks used to haul or transport demolition debris shall be covered in accordance with local regulations.
- J. Certain projects may require flagmen or safety officers.

1.05 REGULATORY REQUIREMENTS

- A. Conform to applicable local code for demolition of structures, safety of adjacent structures, dust control, and runoff control.
- B. Obtain required permits and licenses from authorities. Pay associated fees including disposal charges.

Permits, fees, and licenses shall be secured and paid for by the General Contractor. It is the General Contractor's responsibility and obligation as part of the contract to pay for all charges for containers, transport, tipping fees, and disposal of all solid waste generated during the construction of the project. These fees shall be paid for by the General Contractor and included as part of the base bid. The Owner will not reimburse the General Contractor for these fees separately. The General Contractor shall provide the Owner with appropriate "bills of lading" demonstrating proper disposal of all waste.

The General Contractor shall enter into a contract for the transportation and disposal of all solid waste in accordance with all Local, State, and Federal Agencies. The State of Maine Department of Environmental Protection Site Location of Development Permit application for this project, if applicable, will have specific requirements for the transport and disposal of solid waste. The General Contractor shall review these requirements and enter into a contract for the transportation and disposal of all solid waste in accordance with representations made in the permit application as well as the conditions of the permit. This includes land clearing and demolition debris as well as construction debris and existing solid waste within the limits of the property. A copy of Section 5 of the permit application should be appended to this Section of the specifications. It is the responsibility of the General Contractor to determine actual quantities.

Any modification/revision to the representations made within Section 5 of the Site Location of Development Act Permit application with regards to transport/disposal of solid waste requires the General Contractor to file an "Application for Project Modification" with the Maine

Department of Environmental Protection. Any fees associated with preparing/processing of this application shall be the responsibility of the General Contractor.

- C. Notify affected utility companies and DIG SAFE before starting work and comply with their requirements.
- D. Do not close or obstruct roadways, sidewalks, or hydrants without permits.
- E. Conform to applicable regulatory procedures when discovering hazardous or contaminated materials.

1.06 JOB CONDITIONS

- A. Structures to be demolished will be discontinued in use and vacated prior to start of work.
- B. Owner assumes no responsibility for condition of structures to be demolished.
- C. Conditions existing at time of inspection for bidding purposes will be maintained by Owner in so far as practicable. Variations within structures may occur by Owner's removal and salvage operations prior to start of demolition work.
- D. Items of salvageable value to Contractor may be removed from structure. Storage or sale of removed items on site will be permitted but shall not interfere with any other work specified in the contract documents.
- E. Explosives shall not be brought to site or used without written consent of authorities having jurisdiction. Such written consent will not relieve Contractor of total responsibility for injury to persons or for damage to property due to blasting operations. The performance of any required blasting shall comply with governing regulations.

PART 2 - PRODUCTS

2.01 FILL MATERIALS

Aggregate materials specified in Section 02200 and 02227.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Provide, erect, and maintain temporary barriers and security devices as needed.
- B. Protect existing landscaping materials, appurtenances, and structures which are not to be demolished. Repair damage caused by demolition operations at no cost to Owner.
- C. Prevent movement or settlement of adjacent structures. Provide bracing and shoring.
- D. Mark location of utilities. Protect and maintain in safe and operable condition the utilities to remain. Prevent interruption of existing utility service occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide temporary services during interruptions to existing utilities as acceptable to governing authorities.

3.02 DEMOLITION REQUIREMENTS

- A. Conduct demolition to minimize interference with adjacent structures or pavements.
- B. Cease operations immediately if adjacent structures appear to be in danger. Notify authority having jurisdiction. Do not resume operations until directed.
- C. Conduct operations with minimum interference to public or private access. Maintain access and egress at all times.
- D. Obtain written permission from adjacent property owners when demolition equipment will traverse, infringe upon, or limit access to their property.
- E. Sprinkle work with water to minimize dust. Provide hoses and water connections for this purpose.
- F. Comply with governing regulations pertaining to environmental protection.
- G. Clean adjacent structures and improvements of dust, dirt, and debris caused by demolition operations. Return adjacent areas to condition existing prior to start of work.

3.03 DEMOLITION

- A. Demolish buildings completely and remove from site using methods as required to complete work within limitations of governing regulations. Small structures may be removed intact when acceptable to owner and authorities having jurisdiction.
- B. Proceed with demolition in systematic manner, from top of structure to ground and complete demolition work above each floor or tier before disturbing supporting members on lower levels.
- C. Locate demolition equipment and remove materials so as to prevent excessive loading to supporting walls, floors, and framing.
- D. Removal structural framing members and lower to ground by hoists, derricks, or other suitable methods.
- E. Demolish concrete and masonry in small sections. Break up concrete slabs-on-grade that are 2 or more feet below finished grade. Remove slabs within 2 feet of finished grade.
- F. Demolish and remove below grade construction and concrete slabs on grade to a minimum depth of two feet below proposed subgrade.
- G. Remove all underslab utilities.

3.04 FILLING BASEMENT AND VOIDS

- A. Completely fill below grade areas and voids resulting from demolition or removal of structures (underground fuel storage tanks, wells, storm drainage pipe and appurtenances, etc.) using approved select fill materials consisting of stone, gravel, and sand free from debris, trash, frozen materials, roots and other organic matter.
- B. Ensure that areas to be filled are free of standing water, frost, frozen, or unsuitable material, trash and debris prior to fill placement.

- C. Place fill materials in horizontal layers not exceeding 8" in loose depth and compact each layer at optimum moisture content of fill material to proposed density, unless subsequent excavation for new work is required.
- D. Grade surface to match adjacent grades and to provide flow of surface drainage after fill placement and compaction.

3.05 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove from site debris, rubbish, and other materials resulting from demolition operations. All demolished or removed items shall be disposed of in accordance with the applicable State, Local, and Federal regulations.
- B. On site burning will be accomplished in the area indicated on the Erosion and Sediment Control Plan and in accordance with Local and State regulations. Attend burning materials until fires have burned out or have been extinguished.
- C. Transport materials removed from demolished structures with appropriate vehicles and dispose off-site to areas which are approved for disposal by governing authorities and appropriate property owners.
- D. The transportation and disposal of all solid waste shall be in accordance with the applicable State, Local and Federal regulations, and Section 5 of the MeDEP Site Location of Development Permit application
- E. Federal Permit and State Regulations prohibit the placement of any material in wetlands not specifically permitted or shown on the Contract Drawings.
- F. Areas of any existing on-site solid waste shall be disposed of in accordance with applicable State, Local, and Federal regulations. The contractor shall review the site conditions to determine the quantity and composition of waste.

3.06 UTILITY SERVICES

- A. Demolish and remove outside utility lines as follows:
 - 1. Any utility which is to be abandoned and located within 36 inches of the final finish grade.
 - 2. Any storm drain which is to be abandoned.
 - 3. Any overhead utility which is discontinued.
 - 4. Other abandoned lines which would interfere with performance of this contract.
- B. Plug and seal any abandoned utility lines not scheduled for removal in Section 3.06A as follows:
 - 1. All pipelines shall be plugged at any appurtenant opening or point of breakage which occurs during construction of the work.
 - 2. The portion of the appurtenant utility structures which are more than 36 inches below grade shall be dewatered, all entry lines shall be sealed, and the void shall be filled with clean stone gravel or sand and compacted.

3.All existing sanitary sewer services for the existing structures/facilities within the project limits shall be excavated at the sanitary sewer main, the service shall be cut 2' from the main and capped/plugged using an appropriate fitting. The service shall be removed for a minimum distance of 5' from the service main.

4.All existing water services for the existing structures/facilities within the project limits shall be excavated at the water main. The corporation shall be removed from the main and the main shall be plugged. The existing service line and curb stop shall be removed for a minimum distance of 5' from the water main.

ATTACHMENTS

For large projects, the Owner should append the particular permits secured for the project including Section 5 of the MeDEP Site Location of Development Permit Application

---END OF SECTION 02050---