

**SECTION 02 41 00
DEMOLITION**

PART 1 - GENERAL**1.1 DESCRIPTION:**

- A. This section specifies demolition and removal of building windows and associated building components as defined herein and shown on the drawings.
- B. Demolition work shall be phased as indicated on the Drawings. All staging/phasing shall be reviewed and approved by COR.
- C. All new (replacement) windows shall be fabricated and on-site before any demolition work begins.

1.2 RELATED WORK:

- A. Demolition and removal of damaged roads, walks, curbs, and on-grade slabs outside Section 31 20 11, EARTH MOVING (SHORT FORM.
- B. Safety Requirements: GENERAL CONDITIONS Article, ACCIDENT PREVENTION.
- C. Reserved items that are to remain the property of the Government: Section 01 00 00, GENERAL REQUIREMENTS.
- D. Asbestos Removal: Section 02 82 13.31, ASBESTOS-CEMENT PANEL/WINDOW ABATEMENT.
- E. Lead Paint: Section 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.
- F. Environmental Protection: Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS.
- G. Construction Waste Management: Section 017419 CONSTRUCTION WASTE MANAGEMENT.
- H. Infectious Control: Section 01 00 00, GENERAL REQUIREMENTS, Article 1.7, INFECTION PREVENTION MEASURES.

1.3 PROTECTION:

- A. Perform demolition in such manner as to eliminate hazards to persons and property; to minimize interference with use of adjacent areas, utilities and structures or interruption of use of such utilities; and to provide free passage to and from such adjacent areas of structures. Comply with requirements of GENERAL CONDITIONS Article, ACCIDENT PREVENTION.
- B. Provide safeguards, including warning signs, barricades, temporary fences, warning lights, and other similar items that are required for protection of all personnel during demolition and removal operations. Comply with requirements of Section 01 00 00, GENERAL REQUIREMENTS, Article PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES AND IMPROVEMENTS.
- C. Maintain fences, barricades, lights, and other similar items around exposed excavations until such excavations have been completely filled.

- D. As required, provide enclosed dust chutes with control gates from each floor to carry debris to truck beds and govern flow of material into truck. Provide overhead bridges of tight board or prefabricated metal construction at dust chutes to protect persons and property from falling debris.
- E. Prevent spread of flying particles and dust. Sprinkle rubbish and debris with water to keep dust to a minimum. Do not use water if it results in hazardous or objectionable condition such as, but not limited to; ice, flooding, or pollution. Vacuum and dust the work area daily.
- F. In addition to previously listed fire and safety rules to be observed in performance of work, include following:
 - 1. No window or part of window shall be permitted to fall outwardly from building.
 - 2. Wherever a cutting torch or other equipment that might cause a fire is used, provide and maintain fire extinguishers nearby ready for immediate use. Instruct all possible users in use of fire extinguishers.
 - 3. Keep hydrants clear and accessible at all times. Prohibit debris from accumulating within a radius of 4500 mm (15 feet) of fire hydrants.
- G. Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The contractor shall take necessary precautions to avoid damages to existing items to remain in place, to be reused, or to remain the property of the Medical Center; any damaged items shall be repaired or replaced as approved by the COR. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under this contract. Do not overload structural elements. Provide new supports and reinforcement for existing construction weakened by demolition or removal works. Repairs, reinforcement, or structural replacement must have COR's approval.
- H. The work shall comply with the requirements of Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS.
- I. The work shall comply with the requirements of Section 01 00 00, GENERAL REQUIREMENTS, Article 1.7 INFECTION PREVENTION MEASURES.
- J. Before any demolition work begins, all window treatments (blinds, shades, valances, etc.) shall be removed, cataloged, stored, and protected as indicated on the drawings. Once work is complete, window

treatments shall be re-installed at the same location. Contractor shall supply all hardware required for re-installation. Any window treatment damaged shall be replaced by Contractor without any cost to the Owner.

- K. Existing grates on basement window sumps shall be removed, labeled, stored, protected, and replaced as needed during the window removal and installation work. Only remove grates for windows being worked on at the given time and immediately replace after work is finished on a given window.

1.4 WINDOW OPENINGS:

- A. No window opening shall be left open overnight.

1.5 CEILING TILE AND GRID:

- A. Only remove existing ceiling tile and grid as necessary for removal of existing window and installation of new window.
- B. Replace ceiling tile and grid after removal and installation work is complete. Replace any item damage at no additional cost to the Owner.

1.6 WINDOW SURROUNDS:

- A. Window surrounds are defined as the area extending 2 feet, plus or minus 1 foot, from the edges of the window opening around the entire perimeter of the window opening.
- B. Replace/repair window surrounds damaged by Contractor at no additional cost to the Owner.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 DEMOLITION:

- A. Completely demolish and remove building windows, including all appurtenances related or connected thereto, as noted below:
1. As required for installation of new windows.
 2. As required to complete repair work indicated herein and on the drawings.
 3. As required to replace damaged items.
 4. As required to properly prepare surfaces for new installation and finishes.
 5. Remove louvers and plates within windows openings.
 6. Remove existing security screens.
 7. Remove existing marble stools where indicated on drawings.
 8. Any work indicated on the drawings. It is the contractor's responsibility to repair and/or replace existing damage/defects to the window surrounds.

- B. Debris, including brick, concrete, stone, metals and similar materials shall become property of Contractor and shall be disposed of by him daily, off the Medical Center to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the COR. Break up concrete slabs below grade that do not require removal from present location into pieces not exceeding 600 mm (24 inches) square to permit drainage. Contractor shall dispose debris in compliance with applicable federal, state or local permits, rules and/or regulations.
- C. Remove and legally dispose of materials. Materials removed shall become property of contractor and shall be disposed of in compliance with applicable federal, state or local permits, rules and/or regulations. The removal of hazardous material shall be referred to Hazardous Materials specifications.
- D. When items are encountered that are not indicated on the drawings, the COR shall be notified prior to further work in that area.

3.2 CLEAN-UP:

On completion of work of this section and after removal of all debris, leave site in clean condition satisfactory to COR. Clean-up shall include off the Medical Center disposal of all items and materials not required to remain property of the Government as well as all debris and rubbish resulting from demolition operations.

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