
SECTION 02 41 10
SELECTIVE DEMOLITION**PART 1 - GENERAL****1.1 SUMMARY**

- A. Section Includes: Services and equipment required for dismantling, wrecking, and razing of existing site construction and structures required to make way for new construction and other work of this Contract. Obtain and pay for all permits and fees required. Work includes, but is not necessarily limited to, the following:
 - 1. New openings into existing Building.
 - 2. Selective interior demolition (including existing floor finishes).
 - 3. Walls, partitions, ceilings, doors, frames, windows.
 - 4. Removal of existing piping.
 - 5. Other miscellaneous items as indicated on Drawings.
 - 6. Remove existing walls and floor slab as required for installation of new work.
- B. Work Specified Herein but Performed Elsewhere:
 - 1. Fire Suppression: Division 21.
 - 2. Plumbing: Division 22.
 - a. Sanitary sewer work and exterior storm sewer work.
 - 3. HVAC: Division 23.
 - 4. Electrical: Division 26.
- C. Related Sections:
 - 1. Construction Waste Management and Disposal: Section 01 74 19.
 - 2. Cutting and Patching: Section 01 73 29.
 - 3. Restoration of existing stone: Section 04 01 40 - Maintenance of Stone Assemblies.
 - 4. Plumbing, HVAC & Electric demolition: Divisions 21, 22, 23, and 26 as applicable.
- D. Definitions:
 - 1. Exterior: As relates to sewer work, includes lines extending through and to a point 5 feet beyond building foundation.

1.2 QUALITY ASSURANCE

- A. Qualifications: Contractor must be experienced in demolition work of the type required; must have personnel and equipment adequate for the work; must be approved by the Resident Engineer.
 - 2. All work involving hazardous materials to be performed by a contractor specializing in the type work required and licensed by the appropriate governing authorities.
- B. Code Compliance: Demolition work to be in compliance with all applicable federal, state, and local codes and regulations including procedures, safety, and material disposal.

1.3 JOB CONDITIONS

- A. Existing Conditions: Visit site and verify requirements for demolition.
- B. Protection:

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1. Perform all work in accordance with applicable safety requirements; protect personnel, those portions of the existing building, adjacent structures, and areas which are to remain.
 2. Leave areas, structures, and other construction noted to remain in as good condition as found.
 3. Keep street drains and sewers open for free drainage at all times.
 4. Do not start work until temporary walls and dust controls are in place as specified elsewhere.
 5. Protect existing building interior and contents from weather damage where exterior envelope is penetrated or partially removed from work under this Section.
- C. Scheduling: Schedule operations with Resident Engineer; perform work only at agreed times and in accordance with approved requirements.

1.4 BUILDING EQUIPMENT AND FURNISHINGS

- A. The Contractor must advise the Resident Engineer through the Construction Manager, in writing, seven days before starting any demolition operations.
- B. All items, equipment, fixtures, and furnishings not removed, labeled or otherwise provided for to become property of Contractor.
- C. Contractor to protect all labeled or designated items remaining in the demolition area.

PART 2 - PRODUCTS

PART 3 - EXECUTION

3.1 GENERAL DEMOLITION

- A. Wrecking: Except for items noted for salvage and/or retention, cut, alter, remove, or temporarily remove and replace existing construction and materials as required for completion of new work shown on drawings and specified.
- B. Utilities: Where existing public utility equipment, poles, guys, meters, traffic controls, signs, and similar equipment are shown to be removed or interfere with the progress of the work, remove or cause to be removed; coordinate removal with proper authorities and pay all costs. All utility lines and services to existing structures to remain intact and in operation; obtain permission to disrupt any utilities or services even temporarily.
1. Remove abandoned sewers below building after replacement by new sewers. Fill excavated areas and compact disturbed areas in accordance with Section 31 20 00 – Earth Moving. See SUMMARY in Part 1 above for extent of work provided under Divisions 21-33 and definition of "interior".
 2. Abandoned utilities to be capped or terminated in accordance with requirements of the applicable utility. Utility work performed under Divisions as indicated in SUMMARY above.

- C. Sidewalks and Curbs: Where required for removal, break-out along preformed joints at construction, control, or expansion joints and/or score lines. Where breaking-out at joints is not practical, break-out along a minimum 1 inch deep diamond saw-cut; make saw-cuts in uniform, straight lines defining areas to be removed; cut along existing score lines wherever possible.
- D. Shoring and Underpinning: Provide temporary shoring and/or underpinning of existing construction as required for protection. Remove only when directed.

3.2 HAZARDOUS MATERIALS

- A. Contractors are cautioned to check premises for existence of hazardous materials such as asbestos in the form of pipe insulation or plaster.
- B. In the event materials are encountered during the work which may present a health hazard to workers, occupants, or the public, the Contractor shall take the following actions:
 - 1. Take immediate action to limit the exposure or hazardous condition.
 - 2. Cease work in area until suspected hazardous material can be identified.
 - 3. Notify Owner of condition. Notification shall be made by the most expedient means with subsequent written confirmation.
- C. Testing, identification, removal, or other processes to render hazardous materials safe within legal limits to be provided by Owner. See SUMMARY in Part 1 above.

3.3 SELECTIVE DEMOLITION

- A. Cutting: In addition to requirements specified in Section 01 73 29 - Cutting/Patching and Sleeves; selective demolition or building alteration work includes the following. Where cut edges of the construction will be exposed in the completed work, finish edges to match the existing and adjacent surfaces to remain.
- B. Concrete Walls: Saw-cut walls with diamond saw. Carefully mark wall for cuts in accurate locations and cut in straight, uniform lines, unless otherwise directed. Saw both sides of wall and break-out remainder.
- C. Masonry Walls: ~~Saw out at mortar joints where possible;~~ cut masonry units in straight uniform lines in accurate locations; remove all mortar adhering to edges. Remove masonry units from locations where shown or directed.
 - 1. Remove brick masonry in tooth pattern where exposed to view.
- D. Patching: In addition to requirements for patching specified in Section 01 73 29, selective demolition includes the following. Where cutting or removal of existing materials or construction results in unfinished or damaged surfaces not scheduled for application of new finish materials, patch, fill, or otherwise prepare surfaces and finish to match adjacent undisturbed existing surfaces.
 - 1. All materials, methods, and procedures used in patching to be in accordance with applicable provisions of specifications governing the various trades.
 - 2. All patching to be performed by the General Trades Contractor. Mechanical/Electrical trades to advise Construction Manager of required patching before bid.

Per RFI 05144: Do not shift openings to align with mortar joints.

3.4 REMOVALS

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- A. Where required, remove materials, equipment, and finishes.
 - B. Embedded wood nailers at Dixie gable roof.
 - C. Equipment and Fixtures: By Plumbing, HVAC, and Electrical Contractors. Disconnect and remove equipment, fixtures, and fittings where noted or required for completion of the work or salvage. Store where directed and incorporate into work as indicated. Use qualified mechanics as required to preclude damage to such items. Contractor will be held responsible for damage to any item required for salvage.

3.5 SALVAGE

- A. Condition of Salvaged Items: Contractor to advise Resident Engineer of condition of items scheduled to be salvaged which are already damaged before demolition work or conditions which may preclude such items from being fully reused. The materials listed below remain the property of the Owner and be store by the Construction Manager for reuse in future bid package for SLVHCS REPLACEMENT MEDICAL CENTER PROJECT as listed below.
- B. Owner: The Owner retains the items listed below. Remove, deliver and store where directed
- C. Items to be incorporated into the work:
- D. To Others: Mechanical and electrical salvageable items become the property of those respective trades involved in demolition work, except where retained by the Owner or where noted for reuse.

3.6 DISPOSAL

- A. Remove non-salvaged material from site and legally dispose of them.
- B. Burning: On-site burning not permitted.

END OF SECTION