

SECTION 31 00 02

SITE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition of buildings and below grade foundations.
2. Demolition of existing site elements.
3. Protection of existing site elements to remain.
4. Disposal of demolished materials.

B. Related Sections:

1. 31 00 01 "SITE PREPARATION AND GENERAL SITE WORK" for protection of existing facilities, protection of vegetation, utility locates, and utility protection, and maintenance of active utility service to portions of existing facilities schedule to remain open and in service during construction.

1.2 DEFINITIONS:

- A. Remove:** Remove and legally dispose of items except those indicated to be salvaged, or to remain the Owner's property.
- B. Remove and Salvage:** Items indicated to be removed and salvaged remain the Owner's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to Owner's designated storage area.
- C. Existing to Remain:** Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the Design Professional, items may be removed to a suitable, protected storage location during selective demolition and then cleaned and reinstalled in the original locations.

1.3 SUBMITTALS:

- A. Prior to demolition work, submit the following for information only.**
1. Proposed dust control measures.
 2. Proposed noise control measures.
- B. Inventory of all items to be removed and salvaged.**
- C. Photographs or videotape, sufficiently detailed, of existing conditions of adjoining construction and site improvements that might be misconstrued as damaged caused by demolition operations.**
- D. As applicable, records indicating receipt and acceptance of solid waste and hazardous wastes by legal and licensed facilities to accept such wastes.**

1.4 QUALITY ASSURANCE

- A. Regulatory Requirements:**

1. Comply with hauling and disposal regulations of Georgia EPD (Environmental Protection Division) and other authorities having jurisdiction.
2. Comply with applicable demolition requirements of local jurisdictions and the State of Georgia.
3. Comply with the requirements of NFPA 241, 2013 Edition, Standard for Safeguarding Construction, Alteration, and Demolition Operations.

1.5 SITE CONDITIONS

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain the Owner's property, demolished materials shall become the Contractor's property and shall be removed from the site with further disposition at the Contractor's option.
- B. Storage or sale of removed items or materials onsite will not be permitted.
- C. All existing curb and gutter, paving, structures, utilities and all other existing items that are located where proposed items are to be built but are not shown specifically for removal, shall be removed, at the contractor's expense, only when approved in writing by the Owner or Design Professional.

PART 2 - PRODUCTS (not used)

PART 3 - EXECUTION

3.1 PREPARATION

- A. Perform public and private utility locates in accordance with Section 31 00 01 "Site Preparation and General Site Work." Disconnect and de-activate all existing utilities before proceeding with the work, except as specified herein or otherwise shown on plans.
- B. Verify that utilities have been disconnected and capped.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- D. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- E. When unanticipated mechanical, electrical, or structural elements that conflict with the intended function or design are encountered, investigate and measure the nature and extent of the conflict. Promptly submit a written report to the Design Professional.
- F. Evaluate the condition of site structures to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of the structure or adjacent structures during selective demolition.

3.2 SAFETY AND PROTECTION

- A. Conduct demolition operations and remove debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities. Do not

close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

- B. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Provide all barricades, guards, lights and other installations required.
 - 2. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
 - 3. Ensure safe passage of people around demolition area
 - 4. Protect existing site improvements, appurtenances, and landscaping to remain.

3.3 POLLUTION CONTROLS:

- A. Use water mist, temporary enclosures, and other suitable methods to limit the spread of dust and dirt.
 - 1. Do not use water to the extent that may result in damage to existing construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.
- B. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 1. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level.
- C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before start of selective demolition.

3.4 DEMOLITION:

- A. Demolish and remove from site the existing structures, curb & gutter, slabs, walks, paving, steps, and any other item above or below ground that interferes with construction of the project as shown on plans.
- B. Remove existing curbs, gutters, slabs, and concrete walkways at the nearest contraction or expansion joint.
- C. Provide neat and straight sawcutting as shown on the Plans and as required to provide selective or partial demolition.
- D. Where portions of concrete slabs-on-grade are to be removed, first outline the portion with a concrete saw to a depth of at least 1/3 of the thickness.
- E. Completely remove below grade construction, including foundations and footings.
- F. Contractor is to coordinate the subsurface demolition with any phased utility demolition and construction. The demolition of below grade items shall not interrupt any existing or proposed utility services.
- G. Abandoned items (i.e. storm lines, utility lines, utility poles, utility appurtenances, etc.) shall be removed from the site unless specifically noted and/or approved.

3.5 FILLING BELOW-GRADE AREAS AND VOIDS:

- A. Completely fill below-grade areas and voids resulting from demolition of structures.

- B. Use only clean, non-frozen, and approved fill material, stone, gravel, or sand that is free from deleterious materials. Refer to Section 31 22 00 "EARTHWORK" for general fill or structural back fill.
- C. Grade completed surface to drain and to meet adjacent contours.

3.6 DISPOSAL OF DEMOLISHED MATERIALS:

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Send recyclable waste such as asphaltic concrete, Portland cement concrete, plastic, and metals to applicable recycle centers when feasible.
- C. Burning: Do not burn demolished materials.
- D. Burying: Do not bury materials onsite unless approved or otherwise shown.
- E. Disposal of Regulated Materials (in accordance with GDNr, EPD rules):
 - 1. Organic debris such as stumps, limbs, leaves, may be taken to a permitted solid waste landfill or to a permitted inert landfill.
 - 2. Dispose of other non-hazardous trash and debris to a municipal solid waste landfill.
 - 3. Dispose of oils, solvents, fuels, untreated lead paint residue and other solid hazardous wastes in properly licensed hazardous waste disposal facility.
- F. Obtain all necessary permits for disposal. Transport demolished materials off Owner's property and legally dispose of them. Provide copies of disposal certificates to the Design Professional.

3.7 REPAIRS AND PATCHING:

- A. Repair excess demolition.
- B. Employ skilled workmen to perform repair work.
- C. Where installation of similar new work is included, perform repairs in manner specified for installation of new work.
- D. Where similar new work is not included in the project, perform repairs using approved materials that are appropriate to the repair and, where practicable, are identical to the existing materials being repaired.
- E. Restore exposed finished patched areas in a manner, which eliminates evidence of repairs.
 - 1. Continuous surfaces: Extend refinish to nearest intersection, with a neat transition to adjacent surfaces.
 - 2. Assemblies: Refinish entire unit.
 - 3. Painted piping, conduit and duct: Clean and repaint.

3.8 CLEANING:

- A. Remove tools and equipment. Dispose of scrap.
- B. Leave exterior areas free of debris.
- C. Existing structures and site features to remain shall be returned to the condition prior to the commencement of construction.

- D. Sweep remaining hard surfaces on completion of selective or partial demolition operations.

END OF SECTION