

## **ITEM 23**

### **REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

#### **23.01 DESCRIPTION**

This work shall consist of the removal, wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and pits. When the Proposal does not include pay items for Removal of Structures and Obstructions as set out in this Section, such work shall be performed, and the costs thereof shall be included in the prices bid for other items of construction.

#### **EQUIPMENT**

#### **23.02 EQUIPMENT**

All equipment necessary for the satisfactory performance of this work shall be on the project and approved before the work will be permitted to begin.

#### **CONSTRUCTION REQUIREMENTS**

#### **23.03 GENERAL**

The Contractor shall raze, remove, and dispose of all buildings and foundations, structures, fences and other obstruction, any portions of which are on the rights-of-way, except utilities, and those for which other provisions have been made for removal. All material from such work designated to become the property of the Department shall be removed without unnecessary damage, in sections or pieces which may be readily transported, and shall be stored and protected by the Contractor at specified places within the project limits, and all material not so designated will become the property of the Contractor and shall be disposed of outside the limits view from the project. If the material is disposed of on private property, the Contractor shall secure written permission from the property owner. A copy of each agreement with property owners is to be furnished by the Engineer.

The City of Chattanooga reserves the right to dispose of buildings on any tract prior to their being torn down or removed by the contractor.

Buildings and other structures, which are indicated on the Plans to be removed or disposed of by other agencies, will not be held as a charge or responsibility of the Contractor except that the Contractor waives any and all claims for interference, delay or damage due to their removal or non-removal.

Foundations of buildings and structures shall be removed to a depth of not less than one foot below natural ground, except that within construction limits, removal shall be to a depth of not less than two feet below subgrade elevation. Basement floors shall be broken up to prevent holding of water. Basements or cavities left by structure removal shall be filled to the level of the surrounding ground and within the prism of construction and below subgrade elevation shall be compacted in accordance with the provisions of Item 1, Earthwork.

#### 23.04 REMOVAL OF BRIDGES, CULVERTS, AND OTHER DRAINAGE STRUCTURES

Bridges, culverts and other drainage structures in use by traffic shall not be removed until satisfactory arrangements have been made to accommodate traffic.

Unless otherwise specifically designated or directed, the substructure of bridges shall be razed to the adjacent ground level or natural stream bottom for such portions located in a stream, except that such portions of the substructure of a bridge located in a navigable stream shall be subject to the laws of the U. S. Government and requirements set out in the standard permit form of the applicable government agency approving the location and plans and authorizing the construction of the structure. Where such portions of existing structures lie wholly or in part within the limits for a new structure, they shall be removed as necessary to accommodate the construction of the proposed structure.

Steel bridges and wood bridges designated to become the property of the City of Chattanooga shall be carefully dismantled without unnecessary damage. All such material shall be stored in a manner as to prevent damage.

Blasting or other operations necessary for the removal of an existing structure or obstruction, which may damage new construction, shall be completed prior to placing the new work, or adequate precautions shall be taken to prevent such damage.

#### 23.05 REMOVAL OF PIPE

Pipe designated to become the property of the City of Chattanooga shall be carefully removed and every precaution taken to avoid breaking or damaging the pipe. Pipes shall be removed, and stored when necessary, so that there will be no loss or damage. The Contractor will be required to replace sections damaged by negligence or by use of improper methods.

## 23.05 REMOVAL OF PAVEMENT, SIDEWALKS, CURBS, ETC., CONSTRUCTED OF PORTLAND CEMENT CONCRETE

All pavement, base course, sidewalks, curbs, and gutters, etc., constructed of portland cement concrete designated for removal shall be disposed of as directed.

Concrete pavement, parking strip, and base, all with or without bituminous overlay, concrete curb and gutter, sidewalk, driveways, etc., shall be removed and disposed of as follows:

If the items are below subgrade elevation, but by not more than two feet, they shall be removed, disposed of, and the work paid for in accordance with this Section.

If the items are more than two feet below subgrade elevation, they shall be broken into size not to exceed two feet in maximum dimension and remain in place, unless it interferes with succeeding items of construction. The cost of this work shall be included in the unit price bid for other items of construction and shall not be paid for directly.

If the items are above subgrade elevation, the removal and disposal of same shall be paid for as provided in Item 1, Earthwork.

When specified, ballast, gravel, bituminous pavement or other pavement materials shall be removed and stockpiled as in an appropriate manner. Otherwise, such materials shall be disposed of as directed.

## COMPENSATION

### 23.07 METHOD OF MEASUREMENT (IF APPLICABLE)

When the Contract stipulates that payment will be made for removal of structures and obstructions on a lump sum basis, the pay item, Removal of Structures and Obstructions, will include all structures and obstructions encountered within the rights-of-way in accordance with the provisions of this Section. Where the Contract stipulates that payment will be made for the removal of specific items on a unit basis, measurement will be made by the unit stipulated in the Contract.

Removal of Rigid Pavements, Sidewalks, etc., to be paid for under Item 23, will be measured for payment by the square foot unless the contract stipulates that payment for removal of rigid pavements, sidewalks, etc., will be on a lump sum basis.

Where the removal of pipe is designated as a specific item, it will be measured in linear feet or lump sum basis.

### 23.08 BASIS OF PAYMENT (IF APPLICABLE)

The accepted quantities of Removal of Structure and Obstructions will be paid for at the contract lump sum price bid, which price shall be full compensation for removing and disposing of the obstructions in accordance with the Contract.

Specific obstruction items, including pipe removal, stipulated for removal and disposal under unit price pay items and Removal of Rigid Pavements, Sidewalks, etc., will be paid for at the contract unit price bid per unit specified in the proposal, which price shall be full compensation for removal and disposal of such items, excavation and subsequent backfill incidental to their removal. The price shall also include salvage of materials removed, their custody, preservation, storage on the rights-of-way, or disposal as provided herein.

Payment will be made only when payment for all or any part thereof is provided for in a "Pay Item."

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