

SECTION 601: REMOVAL OF STRUCTURES AND OBSTRUCTIONS

601.1 DESCRIPTION

This work shall consist of removing and disposing of surface and subsurface features to clear the project site for construction. This includes buildings and their utility services, fences, structures, pavements, curb and gutter, sidewalks, buried pipes, and any other items listed within the Notice to Contractor. All removal and salvage features included in these items will be designated in the contract.

601.2 MATERIALS

601.2.1 Suitable Materials

Suitable materials are those materials which can be compacted to the required embankment densities and meet all other contract requirements for embankment materials. See Section 202.2.1 of these specifications for Material Classifications.

601.3 CONSTRUCTION REQUIREMENTS

601.3.1 General

Prior to bidding the project, the Contractor shall perform all work necessary to fully understand the removal and salvage items and the costs associated with removal, salvage, and disposal of the items, along with any other operations pertaining thereto.

601.3.1.1 Marking of Removal Limits

Prior to work on the site, the Contractor shall establish the right-of-way lines and construction limits confining the removal operations, and will designate those surface and subsurface features for removal and those for preservation. The City Engineer or designee shall be offered the opportunity to review the removal limits before work commences.

601.3.1.2 Temporary Erosion Control

Ensure all erosion control requirements and all necessary temporary sediment and erosion control protection (TESCP) devices are installed prior to initiating removal operations on the construction site. The TESCP items will be paid for under the SWPPP pay item.

601.3.1.3 Protection of Site Features

The Contractor shall preserve and protect all existing improvements, adjacent property, utilities, and surface or subsurface features not to be removed from injury or damage resulting from their operations. This may require the Contractor to install temporary signing, temporary fencing, or other temporary features at their cost. Should any damage occur to these site features due to the Contractor's operations, the City Engineer or designee may withhold payment until the damage is remediated or require the damaged items to be replaced at the Contractor's expense.

601.3.2 Removal and Salvage Operations

Remove all surface features and subsurface features designated for removal in the contract and dispose of them at a properly permitted disposal site. Provide the City Engineer or designee with a copy

of the written permission from the property owner and copies of any other necessary disposal permits or approvals.

Carefully remove and salvage all surface features and subsurface features designated for salvage in the contract and store and deliver these materials in accordance with the contract requirements. The Contractor shall repair any damage to salvageable items that occurs during their removal, storage, or delivery operations at no cost to the City.

Backfill holes created by structure or obstruction removals as per the requirements in Section 202 Excavation, Embankment, and Borrow of these specifications with suitable materials, unless the area is within the area of new construction.

601.3.2.1 Removal of Pavements, Sidewalks, Curb and Gutter

Pavements, sidewalks, and curb and gutter shall be removed to neat saw cut lines as identified in the Contract, and dispose of them off the project site.

601.3.2.2 Removal of Culverts and Drainage Structures

The Contractor shall sequence the removal of existing culverts and drainage structures so drainage is maintained on the project. This may require installation of temporary drainage features at their cost.

601.3.2.3 Removal of Sanitary Sewer and Water Utilities

The Contractor shall sequence the removal of existing sanitary sewer and water utilities to minimize the impacts to local businesses and residents. The sequencing of removals shall be coordinated with the City Engineer or designee prior to performing removal operations in the field.

601.3.2.4 Demolition of Buildings

If the Contract requires demolition of buildings, prior to their removal, including utility service lines, obtain written permission from the City Engineer or designee.

Before beginning building demolition, coordinate disconnection of utility services with the appropriate utility owner.

Remove the existing structure and utility service lines as required in the Contract, and restore the existing surface with suitable materials.

Immediately repair broken or damaged public utilities or coordinate with private utilities, at no additional cost to the City.

601.3.2.5 Removal of Bridges and Streambed/Arroyo Features

If the Contract includes the removal of a bridge or feature in a streambed, remove the existing structures down to the stream bottom. Remove existing structures outside the stream to one (1) foot below ground surface, unless otherwise directed in the Contract. Remove more of the existing structure, if necessary, to accommodate a new structure.

601.3.2.6 Removal or Salvage of Fencing

If the contract includes removal of fencing materials, remove all fence materials, including posts and post foundations and backfill holes with suitable materials.

If the Contract includes salvaging of fencing materials, place barbed wire into single-strand rolls and minimize the damage to fence posts when pulling them.

601.3.2.7 Hauling and Stockpiling Salvageable Material

If the Contract requires the Contractor to haul and stockpile salvageable material, load, haul, unload, and stockpile the materials in accordance with the Contract.

Place the salvageable material on blocks or other approved materials and maintain the stockpile area, as directed by the City Engineer or designee.

601.3.2.8 Site Appearance

The site shall have a neat and finished appearance when removal operations are finished, except for areas where construction activities are planned.

601.3.2.9 Disposal

Dispose of all removal items outside the project at a permitted location. A disposal plan, including written permission from the owners of the property used for debris material disposal, shall be submitted to the City Engineer or designee at the preconstruction conference.

601.3.2.10 Burying

No burying of any removed debris will be allowed on the project site.

601.3.2.11 Burning

No burning of any removed debris will be allowed on the project site. In addition, no accumulation of combustible materials shall be stored on the project site near property lines or areas where an unexpected fire could cause damage to existing site features.

601.4 METHOD OF MEASUREMENT

No measurement will be made for lump sum removal of structures and obstructions.

No measurement of the removal of surfacing will be made if the lump sum basis of payment is used. Removal of surfacing will be made by the Square Yard if Square Yard basis of payment is used.

No measurement will be made for lump sum demolition of buildings.

601.5 BASIS OF PAYMENT

| Pay Item | Pay Unit |
|--|-------------------------|
| Removal of Structures and Obstructions | Lump Sum |
| Removal of Surfacing | Lump Sum or Square Yard |
| Demolition | Lump Sum |

Removal of Structures and Obstructions payment shall be considered all-inclusive of the costs of the work including: marking the removal limits; installation of temporary features to protect the site; saw-cutting, removing, and salvaging all items as designated in the Contract; filling depressions associated with the work; providing temporary drainage features associated with the removals; obtaining disposal locations and disposing of debris; and, removing, stockpiling, transporting, and unloading salvaged items.

Removal of Surfacing payment shall be considered all-inclusive of the costs of the work including: removing the surfacing to neat lines; filling depressions associated with the work; providing temporary drainage features associated with the removals; obtaining disposal locations and disposing of debris; and, removing, stockpiling, transporting, and unloading items.

Demolition shall be considered all-inclusive of the costs of the work including: removing the building and service connections; filling depressions associated with the work; providing temporary drainage features associated with the removals; obtaining disposal locations and disposing of debris; and, removing, stockpiling, transporting, and unloading items.

Additional payment for minor removals not specified in the Contract shall not be made.

Unknown buried features not identified in the Contract are not included in this item.

The Contractor shall provide a list of removals to the City Engineer or designee at the preconstruction conference, with the following information for each:

1. A percent of the pay item amount; and,
2. A monetary value.

Payments shall be made based on percent complete from the Contractor’s listing.