

SECTION 02180**REMOVAL OF EXISTING MASONRY****02180.01 GENERAL****A. Description**

Removal of existing masonry shall include but not necessarily be limited to, the removal and disposal, wholly or in part, of all existing monolithic, mortared, or dry masonry in accordance with the Contract Documents.

B. Related Work Included Elsewhere

1. Excavation; Sections 02210, 02220, 02230, and 02250.
2. Embankment; Section 02260.

C. Quality Assurance

The Engineer will inspect all work to ensure compliance with the Contract Documents.

D. Submittals

Should the Contractor desire to use explosives for the removal of existing masonry, he shall make a written request for authorization from the Engineer in accordance with the "General Provisions".

02180.02 MATERIALS

Not applicable.

02180.03 EXECUTION**A. General**

All old masonry structures shown on the Plans to be removed or any masonry interfering with the new construction shall be removed from the limits shown or to the extent that the portions remaining shall be in accordance with the design and construction of the new work. In general, all the masonry shall be removed to the natural ground surface or to a depth at least 1 foot below finished grade of cut or fill slopes and to a depth of at least 9 inches below subgrade elevations within the limits of the construction pavement section in excavation areas.

B. Removal of Old Footings

Portions of old footings conflicting with new construction shall be removed in their entirety. Portions of old footings not fouled by new construction shall be removed to the

limitations noted above in Article A or to at least 1 foot below the stream bed if occurring in a stream bed.

C. Methods of Removal

Methods of removal of old masonry are generally optional with the Contractor except that blasting is not apt to be permitted where parts of the old masonry are included in the new work. Furthermore, blasting will not be permitted even where a structure is to be entirely demolished unless the Engineer approves blasting as the type of destruction to be used.

D. Protection of Existing Masonry

When portions of the existing masonry are to be retained, the portions retained shall not be damaged or impaired by the construction methods selected by the Contractor. Any sections, which are damaged, shall be repaired or replaced to the satisfaction of the Engineer and at the sole expense of the Contractor. Connecting edges and surfaces shall be cut and/or chipped to true lines shown on the Plans or directed by the Engineer.

E. Piles, Grillages, or Cribbing

Unless otherwise shown on the Plans, piles, grillages, or cribbing under removed masonry shall be pulled, cut off, or removed to the bottom of the sections of masonry or at the natural ground line or stream bed, whichever is lower.

In cases where old piles, grillages, or cribbing supporting existing masonry to be removed are within the areas of proposed new footings, they shall be pulled or removed unless, in the opinion of the Engineer, they will not affect the design of the new work, in which event, they may be cut off or left, as directed by the Engineer. In all cases where new piles would be fouled by piles supporting old masonry, the old piles shall be entirely removed.

F. Salvaged Material

All materials having salvage value shall be incorporated in the work in accordance with the provisions of Section GP-4.13 or stored within the limits of the Project as shown on the Plans. All other materials shall be disposed of as excess and unsuitable material in accordance with the provisions of Section 02210.01.

02180.04 METHOD OF MEASUREMENT

Unless specifically stated otherwise in the Contract Documents, this item will not be measured.

When so stated or provided for in the Contract Documents, this item will be measured on the basis of the volume of masonry actually removed and calculated by the method of average end area.

As old masonry is frequently of irregular or unknown dimension, the Contractor and Engineer will agree upon the dimensions of the masonry to be removed before removal is begun. No measurement will be made for isolated piles of material after same has been removed from its original position. No measurement will be made for excavation necessary for access to remove the masonry unless the excavation occurs within the normal limits of excavation.

Volumes of masonry removed from within excavation limits will be deducted from excavation quantities (when a separate item for removal of existing masonry is indicated in the Proposal).

No measurement or extra allowance will be made for backfilling and compacting spaces from which masonry has been removed.

02180.05 BASIS OF PAYMENT

Payment for removal of existing masonry will be made at the lump sum price or the unit price bid per cubic yard. The price bid shall include all labor, materials, and equipment necessary to complete the work as specified, including the disposal or salvage and placement of the material as specified, any excavation and backfilling incidental thereto, and the cutting off or removal of piles, grillages, or cribbing as required.

When masonry, bridges, or parts thereof must be removed and the existence of which is unknown, the removal will be paid for as extra work.

END OF SECTION