

## **SECTION 02110**

### **CLEARING AND GRUBBING**

#### **02110.01 GENERAL**

##### **A. Description**

Clearing and grubbing shall include, but not necessarily be limited to, clearing areas of trees, brush, shrubs, down timber, rotten wood, other vegetation, debris and rubbish, as well as removal of fences and incidental structures; and grubbing or removing from the ground all stumps, roots and stubs, brush, organic materials, and debris in accordance with the Contract Documents.

##### **B. Related Work Included Elsewhere**

1. Protection of the environment; Section 01500.
2. Tree protection; Section 02120.
3. Excavation; Sections 02210, 02220, 02230, 02240, 02250, 02260, and 02270.
4. Salvaged topsoil; Section 02811.

##### **C. Quality Assurance**

The County Engineer will inspect the work to ensure that it is performed in accordance with the Contract Documents.

##### **D. Submittals**

None.

#### **02110.02 MATERIALS**

Not applicable.

#### **02110.03 EXECUTION**

##### **A. Limits**

1. General
  - a. Unless otherwise indicated in the Contract Documents, all trees and other growth within the site or rights-of-ways may be removed.
  - b. Within the limits indicated on the Plans to be cleared and grubbed, the County Engineer has the right to designate trees and other growth which the

County may desire to leave standing.

2. Roadway Construction

Limits of clearing and grubbing include the construction area (out to out of excavation or embankment, as the case may be) and shall include all ditch areas and stream or channel change areas. All other areas within the right-of-way and easement areas shall be cleaned of all rubbish.

Each grading unit shall be limited to the amount of surface area of erodible earth material exposed at one time. A grading unit is defined as a complete grading spread consisting of earth movers, hauling units, graders, compactors, etc. The Contractor shall be prepared to dress and seed each grading unit.

3. Utility Construction

Limits of clearing and grubbing include only those areas within the site or right-of-way which are actually necessary for construction. Clearing will not be permitted in construction strips unless specially indicated in the Contract Document or approved by the County Engineer.

**B. Unsuitable Materials**

Note that after the clearing and grubbing operations are completed, unsuitable materials such as unstable formations, root mat, or swamp muck encountered below the surface of the ground must also be removed. Removal of unsuitable material is described under the various earthwork sections specified in Section 02210.01.

**C. Salvaged Materials**

When indicated, such materials as leaf mold or other organic materials above the surface of the ground and suitable for use as mulch or topsoil shall be salvaged and stockpiled.

**D. Trees, Shrubbery and Plants**

The County Engineer will designate and clearly mark any trees, shrubbery, and plants which are not to be removed, and the Contractor shall protect them from any damage, in accordance with Section 02120 and as outlined in the "General Provisions." Branches of trees overhanging the area to be occupied by paved surfaces and shoulders shall be cut and properly trimmed to maintain a clearance height of 16 feet. Where trees which are left standing are trimmed or become scarred by the Contractor's, the cuts or scars shall be repaired by the Contractor. All trimming and repairs shall be done by skilled workmen and in accordance with good tree surgery practices under the supervision of a tree expert licensed by the State of Maryland.

**E. Burning**

If allowed, the Contractor shall obtain the appropriate permits to allow the burning of trees, brush, trash, or other perishable materials. If burning is prohibited by Federal, State, County, or Local Regulations, or the Contract Documents, the Contractor shall remove these materials and dispose of them off-site in permitted disposal facilities.

**F. Disposal Locations**

Perishable materials and debris shall be removed from the site or right-of-way and disposed of at locations off the Project and outside the limits of view from the Project by the Contractor. The Contractor shall make all necessary arrangements with property owners in writing for obtaining suitable disposal locations and furnish the County Engineer with a copy of the agreement. The cost involved shall be included in the price bid. The Contractor shall be responsible for obtaining all state and local permits for the disposal locations and furnish the County Engineer with evidence indicating the sites are approved for disposal.

**G. Fences**

All fences within the site or right-of-way shall be removed as carefully as practicable and replaced as specified in Section 02130.03.

**H. Excavation Areas**

Within areas to be excavated, all imbedded stumps, root mats, etc., shall be removed to a depth of not less than 1 foot below the subgrade or slope surfaces. All depressions made below the subgrade or slope surfaces by the removal of stumps or roots shall be refilled with materials suitable for embankment and shall be compacted in accordance with the requirements in Section 02260.03.

**I. High Embankments**

Areas where embankment will be made 5 feet or more in depth, trees and stumps shall be cut off as close to the ground as practicable but not to exceed 1 foot above the existing ground surface. Near the toe of embankment slopes no stumps or trees shall extend above a point 1 foot beneath the finished slope surfaces.

**J. Low Embankments**

Areas where embankment will be made less than 5 feet in depth shall be grubbed. In the event that the embankment is 4 feet or less in depth, all of these materials shall be grubbed in the same manner required where excavation is to be made.

**K. Streams and Channel Changes**

Areas within which stream or channel changes are to be made shall be cleared and grubbed in accordance with the provisions of Section 02110.03, Article H. In addition, clearing in accordance with Section 02110.03, Article D, shall extend 3 feet beyond the top of the cut slopes of the completed channel change. Where old channels (outside of the normal excavation or embankment slopes) are indicated to be filled, clear and grub as described in Section 02110.03, Article I, except that no trees, brush, or stumps will have to be removed below the top of the fill.

**L. Structure Sites**

When the work contemplated by the Plans includes the construction of structures, the clearing and grubbing in areas affected by excavation shall be completed in accordance with the provisions of Section 02110.03, Article H.

**02110.04 METHOD OF MEASUREMENT**

RESERVED FOR FUTURE USE

**02110.05 BASIS OF PAYMENT**

**A. Lump Sum**

RESERVED FOR FUTURE USE

**B. Force Account**

RESERVED FOR FUTURE USE

**C. Incidental to Borrow Excavation**

RESERVED FOR FUTURE USE

**SECTION 02120**  
**TREE PROTECTION**

**02120.01 GENERAL**

**A. Description**

Tree protection shall include, but not necessarily be limited to, protecting trees from damage due to construction activity in accordance with the Contract Documents.

**B. Related Work Included Elsewhere**

1. Clearing and grubbing; Section 02110.

**C. Quality Assurance**

The County Engineer will inspect the trees and tree protection systems before, during, and/or after construction activity has taken place in the vicinity of trees that are to be protected to ensure compliance with the Contract Documents.

**D. Submittals**

None.

**02120.02 MATERIALS**

Not applicable.

**02120.03 EXECUTION**

**A. General**

Trees to be protected will be designated on the Plans, and/or marked by the Engineer at the site. In addition, the trees within construction strips shall not be cut down by the Contractor except with the written permission of the property owner.

**B. Tree Protection**

1. The Contractor shall protect designated trees in accordance with the Standard Details and Specifications as shown in the Charles County Forest Conservation Technical Manual.
2. Protected trees damaged by the Contractor shall be trimmed or replaced as directed by the County Engineer at the Contractor's expense.

**C. Public Rights-of-Way**

Trees within public rights-of-way are under the jurisdiction of the Charles County Forest Conservation Ordinance. The Contractor, in accordance with the "General Provisions," will secure all necessary approvals or permits. The Contractor shall conduct the Contractor's operations in accordance with the terms and conditions of this permit and will not be entitled to any additional compensation due to the requirements contained therein.

**02120.04 METHOD OF MEASUREMENT**

RESERVED FOR FUTURE USE

**02120.05 BASIS OF PAYMENT**

RESERVED FOR FUTURE USE

## **SECTION 02130**

### **ADJUSTING AND REPLACING FENCES, SHRUBS, HEDGES, ETC.**

#### **02130.01 GENERAL**

##### **A. Description**

1. Adjusting and replacing fences, shrubs, hedges, etc. shall include, but not necessarily be limited to, the removal and relocation of fences, signs, property markers, mail boxes, and other improvements within the easement or right-of-way area as indicated on the Plans and/or directed by the County Engineer and in accordance with the Contract Documents.
2. Shrubs, hedges, plants, within the easement or right-of-way area that are to be removed do not have to be adjusted or replaced by the Contractor. Those shrubs, hedges and other plants outside the limits of the easement or right-of-way area, or within construction strips that are damaged by the Contractor shall be replaced by the Contractor, at the Contractor's expense.

##### **B. Related Work Included Elsewhere**

Furnish and plant trees, shrubs, and seedling stock; Section 02860.

##### **C. Quality Assurance**

The County Engineer will inspect all work to ensure that it is performed in accordance with the Contract Documents.

##### **D. Submittals**

None.

#### **02130.02 MATERIALS**

Not applicable.

#### **02130.03 EXECUTION**

##### **A. Improvements Other Than Plantings**

1. Existing fences, paper boxes, signs, property markers, and other similar items shall be carefully removed by the Contractor to the extent required to permit construction operations and as directed by the County Engineer. The Contractor shall safely store all items during the time that they are down and when possible, re-erect them

in the original locations or at locations designated by the County Engineer.

2. Mail boxes shall be carefully removed by the Contractor to the extent required to permit construction operations and as directed by the County Engineer. It shall be the Contractor's responsibility to temporarily reset mail boxes during construction to maintain service until the boxes are permanently reset in their original locations or at locations designated by the County Engineer. The Contractor shall comply with all Postal Service regulations regarding the location and height of all mail boxes disturbed by the Contractor's activities.

**B. Plantings**

Shrubs, hedges, and other plantings shall be transplanted with sufficient earth to insure that no damage to their major root system occurs. Reference is made to Section 02860.03 for acceptable planting methods. After transplanting has been accomplished, it shall be the Contractor's responsibility to water all plants until their growth is established.

**02130.04 METHOD OF MEASUREMENT**

RESERVED FOR FUTURE USE

**02130.05 BASIS OF PAYMENT**

**A. Lump Sum**

RESERVED FOR FUTURE USE

**B. Force Account**

RESERVED FOR FUTURE USE

**C. Planting**

RESERVED FOR FUTURE USE



## **SECTION 02140**

### **ADJUSTING EXISTING UTILITIES TO FINISHED GRADE**

#### **02140.01 GENERAL**

##### **A. Description**

Adjusting existing utilities to finished grade shall include, but not necessarily be limited to, the vertical adjustment of existing storm drain inlets and manholes, sanitary sewer manholes and cleanouts, water valve vaults, roadway boxes, and meter vaults to conform to the finished grade in accordance with the Contract Documents or as directed by the County Engineer.

##### **B. Related Work Included Elsewhere**

1. Storm drainage structures; Section 02530.
2. Water valves and appurtenances; Section 02552.
3. Sanitary sewer manholes; Section 02562.
4. Patching pavement; Section 02680.

##### **C. Quality Assurance**

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

##### **D. Submittals**

None.

#### **02140.02 MATERIALS**

##### **A. Materials Furnished by the County**

The County will not furnish any materials for adjusting existing utilities to finished grade.

##### **B. Contractor's Options**

Not applicable.

##### **C. Detailed Material Requirements**

1. Precast concrete grade rings shall be as specified in Section 03400.02.

2. Mortar for brickwork shall be as specified in Section 04100.02.
3. Brick for utility adjustments shall be sewer brick as specified in Section 04200.02.
4. Cast metal grade rings shall be as specified in Section 05500.02.

**02140.03 EXECUTION****A. General**

1. All material designated for salvage shall be carefully removed, cleaned, and stockpiled in areas where such materials or units will not be damaged. All material unfit for reuse in the work shall be stockpiled, to be reclaimed by the County Engineer if desired. The County Engineer may, prior to such stockpiling, declare the material unfit for further use and order its disposal. The condemned material shall be disposed of at permitted disposal facilities or other locations approved by the County Engineer.
2. All items which are to be included in the completed work shall be finished in a condition approximating the original condition. This shall include refinishing and any necessary cleaning directed by the County Engineer.

**B. Adjusting Facilities**

1. Existing facilities to be adjusted to a new grade shall have the casting carefully removed before commencement of paving. The adjustments shall then be made with material similar to that used in the original construction or salvaged materials as approved by the County Engineer.
2. Sanitary sewer manholes shall be adjusted as specified in Section 02565.03.
3. Existing storm drain manholes shall be adjusted to resurfacing paving grades using cast metal manhole grade adjustment rings before placement of final course of permanent resurfacing paving.

**C. Protection of Castings**

Adjusted utilities located in an area where new asphalt pavement or resurfacing material is to be placed shall be protected immediately prior to placement of pavement. Protection shall consist of brush coating all exposed surfaces with oil or other approved methods. The Contractor shall clean all paving material off of castings.

**02140.04 METHOD OF MEASUREMENT**

RESERVED FOR FUTURE USE

**02140.05 BASIS OF PAYMENT**

RESERVED FOR FUTURE USE

## **SECTION 02150**

### **REMOVAL OR ABANDONMENT OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES**

#### **02150.01 GENERAL**

##### **A. Description**

Removal or abandonment of existing utilities and underground structures shall include, but not necessarily be limited to, the removal, salvage, demolition in place, abandonment, or other disposition of existing utilities, underground structures, or other facilities shown on the Plans, encountered in the course of the work, and/or as directed by the County Engineer and in accordance with the Contract Documents.

##### **B. Related Work Included Elsewhere**

1. Trench excavation, backfill, and compaction; Section 02250.
2. Unit masonry; Section 04200.

##### **C. Quality Assurance**

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

##### **D. Submittals**

None.

##### **E. Standards**

In accordance with Standard Details unless otherwise shown on the Plans.

#### **02150.02 MATERIALS**

##### **A. Materials Furnished by the County**

The County will not furnish any materials for the removal or abandonment of existing utilities and underground structures.

##### **B. Contractor's Options**

The Contractor may construct brick or concrete bulkheads in existing pipes or structure openings, unless otherwise noted.

**C. Detailed Material Requirements**

1. Borrow material for backfilling the space left by removal of facilities or backfilling abandoned structures shall meet the requirements specified in Section 02240.02 for Type II Borrow.
2. Pipe plugs and caps for water main abandonment shall be as specified in Section 02551.03.
3. Portland cement concrete for abandonment of utility pipelines, manholes and other structures shall be Mix No. 1 or Mix No. 3 as specified in Section 03310.
4. Mortar shall be as specified in Section 01400.02.
5. Brick for pipeline and structure bulkheads shall be sewer brick as specified in Section 04200.02.
6. Waterproofing for exterior of manhole bulkheads shall be as specified in Section 07130.02.

**02150.03 EXECUTION**

**A. General**

1. The area over the existing facility to be removed or abandoned shall be excavated and, after removal or abandonment as specified, backfilled and compacted in accordance with Section 02250.03.
2. Brick construction shall be as specified in Section 04200 and as specified herein.
3. Removed materials shall remain the property of the County, unless otherwise noted, and shall be stored on-site or transported to another location as directed by the County Engineer.

**B. Removal**

Where indicated on the Plans, or directed by the County Engineer, existing utility pipelines, conduits, and/or appurtenances shall be removed by the Contractor.

**C. Abandonment**

1. Storm Sewers 15-inch Diameter and Smaller

The Contractor shall expose and cut the pipeline where shown or directed and construct a minimum 9-inch thick bulkhead at the cut ends.

2. Sanitary Sewers 15-inch Diameter and Smaller

- a. The Contractor shall expose and cut the pipeline at a manhole unless otherwise noted, set a mechanic plug in the pipe and construct a minimum 20-inch thick brick or concrete bulkhead or plug at the cut end of the

pipeline.

- b. The Contractor shall plug the pipeline opening in the manhole with a brick and mortar or concrete and shall construct a concrete plug in the existing pipe on the outside of the mechanical plug and coat the exterior of the concrete plug with two coats of waterproofing. Existing manhole channels and benches shall be reconstructed as necessary to provide a smooth, safe transition within the manhole.

3. Storm and Sanitary Sewers 18-inch Diameter and Larger

The Contractor may abandon storm and sanitary sewers 18-inch diameter and larger by one of the following methods:

- a. Remove the pipeline completely as specified in Section 02150.03, Article A. Construct a brick or concrete bulkhead or plug at pipe opening in an existing manhole or other structure of a minimum 20-inch thickness. For sanitary sewers, the plug shall be waterproofed with ½-inch thick layer of mortar and two coats of waterproofing on the exterior of the plug. Mortar the inside of the plug so that it is smooth with the wall.
- b. Expose the pipeline at a manhole or structure and remove at least 2 feet of pipe beginning a minimum of 20-inches from the outside face of the structure. Construct a minimum 9-inch thick brick bulkhead at the pipe opening in the manhole then fill remainder of pipe stub with concrete. For sanitary sewer the bulkhead shall be waterproofed with ½-inch thick layer of mortar and 2 coats of waterproofing on the exterior. Mortar the inside of the bulkhead so that it is smooth with the wall and reconstruct the existing manhole channel and bench to provide a smooth, safe transition.
- c. Plug both ends of the pipeline to be abandoned at manholes or structures with a minimum 9-inch thick brick or concrete bulkhead. Mortar the inside of the plug so that it is smooth with the wall, and pump the pipeline full with a lean mixture of sand and cement. Reconstruct existing manhole or structure channel and bench to provide a smooth, safe transition.

4. Storm and Sanitary Manholes and Structures

- a. The Contractor shall remove the frame and cover or grate and salvage and transport to the Charles County Department of Public Facilities Store Yard.
- b. The Contractor shall remove the structure to at least 2 feet below finished grade, break or perforate the bottom of the structure to provide drainage, and backfill the structure with compacted borrow backfill or fill entire structure with concrete without perforation of bottom.

5. Water Mains and Appurtenances

Where indicated on the Plans, or directed by the County Engineer, the Contractor shall abandon existing water mains and/or appurtenances as follows:

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- a. Expose, cut, and cap ends of water mains where shown, place concrete blocking behind cap to bear between the cap on the pressurized main and undisturbed earth in accordance with the Standard Details, and backfill excavation to finished grade as shown on the Standard Details.
- b. Where water mains are to be abandoned and removed to a tee or valve, expose, cut, and plug the pipeline at the fitting, remove all abandoned valves and valve boxes within the limits of the abandonment shown, place concrete blocking behind plug to bear on undisturbed earth in accordance with the Standard Details, and backfill excavation to finished grade.
- c. For water mains 20-inch diameter and larger being abandoned, expose and construct a 9-inch thick brick bulkhead or install a plug or cap on the pipeline to be abandoned at each location where the pipeline was cut or valve removed.
- d. For water mains smaller than 20-inch diameter, install bulkheads, plugs, or caps at each end of the abandoned sections.
- e. Abandon water services by exposing the corporation stop at the main, turning stop off, disconnecting the service line from the corporation stop, inserting a plug or cap on the exposed end of the corporation stop, and backfill excavation to finished grade.
- f. Remove frames and covers from vaults and other structures. Remove the top slab and walls to a minimum depth of 2 feet below finished grade, break or drill holes in the bottom of the structure to provide drainage, and backfill the structure as specified in Section 02250.03.

**02150.04 METHOD OF MEASUREMENT**

**A. Removal**

RESERVED FOR FUTURE USE

**B. Abandonment**

RESERVED FOR FUTURE USE

**02150.05 BASIS OF PAYMENT**

**A. General**

RESERVED FOR FUTURE USE

**B. Removal**

RESERVED FOR FUTURE USE

**C. Abandonment**

RESERVED FOR FUTURE USE

## **SECTION 02160**

### **REMOVAL OF EXISTING PAVEMENT, SIDEWALK, CURB, AND COMBINATION CURB AND GUTTER**

#### **02160.01 GENERAL**

##### **A. Description**

Removal of existing pavement, sidewalk, curb, and combination curb and gutter shall include, but not necessarily be limited to, the removal and disposal of pavement areas inclusive of pavement base courses, sidewalk, curb, combination curb and gutter, paved ditches, handicap ramps, driveway aprons, and other miscellaneous surfaces in accordance with the Contract Documents.

##### **B. Related Work Included Elsewhere**

1. Maintenance of traffic; Sections 01410 through 01470.
2. Excavation; Sections 02210, 02220, 02230, and 02250.

##### **C. Quality Assurance**

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

##### **D. Submittals**

None.

#### **02160.02 MATERIALS**

Not applicable.

#### **02160.03 EXECUTION**

##### **A. Removal**

1. Pavement, including base courses, sidewalk, curb, and combination curb and gutter, and other miscellaneous surfaces shall be removed for the full depth thereof. The Contractor shall use suitable equipment, tools, and methods for cutting and trimming as well as removing the materials to the neat lines established by the County Engineer and shall not in any manner disturb or damage the sections of base or pavement to be salvaged or adjacent grass, sod, or other surfaces. Damage done by the Contractor's equipment or methods to those areas designated for salvaging shall be repaired and restored at the Contractor's expense. Where the

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AND COMBINATION CURB AND GUTTER**

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old subgrade is satisfactory as to condition and elevation, special care shall be taken in the removal operation in order to avoid the disturbing of the old subgrade.

2. Concrete sidewalks, drive aprons, etc., shall be removed to the nearest joint, provided the joint is more than 1 foot from the edge of any utility trench. Concrete curb and combination curb and gutter may be neatly saw-cut and a portion removed provided that the remaining section is 4 feet long or longer.

**B. Disposition of Removed Materials**

The materials removed in this operation shall be broken up and placed in the embankment or disposed of as excess or unsuitable material in accordance with the requirements of Section 02210.03.

**02160.04 METHOD OF MEASUREMENT**

**A. Within Limits of Excavation**

RESERVED FOR FUTURE USE

**B. Outside Limits of Excavation**

RESERVED FOR FUTURE USE

**02160.05 BASIS OF PAYMENT**

**A. Within Limits of Excavation**

RESERVED FOR FUTURE USE

**B. Outside Limits of Excavation**

RESERVED FOR FUTURE USE



## SECTION 02170

### STRIPPING EXISTING BITUMINOUS SURFACE MATERIALS

#### 02170.01 GENERAL

##### A. Description

Stripping existing bituminous surface materials shall include, but not necessarily be limited to, the grinding, planing, or other method of stripping bituminous surface materials, and their disposal in accordance with the Contract Documents.

##### B. Related Work Included Elsewhere

Maintenance of Traffic; Section 01410 through 01470.

##### C. Quality Assurance

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

##### D. Submittals

None.

#### 02170.02 MATERIALS

Not applicable.

#### 02170.03 EXECUTION

##### A. General

Where designated and/or directed by the County Engineer, bituminous surfacing materials shall be ground, planned, or otherwise removed or stripped to a firm base and disposed of by the Contractor.

##### B. Disposition of Removed Materials

Materials removed in this operation, if not incorporated in the finished work, shall be disposed of as excess or unsuitable material in accordance with the requirements of Section 02210.03.

#### 02170.04 METHOD OF PAYMENT

RESERVED FOR FUTURE USE

#### 02170.05 BASIS OF PAYMENT

RESERVED FOR FUTURE USE

**SPECIFICATIONS - MAY 1996**

## 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 County 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, the Contractor shall make a written request for authorization from the County 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 County 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 County 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 County 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 County 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 County 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**

RESERVED FOR FUTURE USE

**02180.05 BASIS OF PAYMENT**

RESERVED FOR FUTURE USE

## **SECTION 02190**

### **REMOVAL AND DISPOSAL OF EXISTING BUILDINGS**

#### **02190.01 GENERAL**

##### **A. Description**

Removal and disposal of existing buildings shall include, but not necessarily be limited to maintenance of traffic; the removal, including backfilling basements, removing foundation, concrete slabs and site imbedded items, and cutting off utilities; disposal of buildings; and the protection of the building site until the removal and disposal are accomplished in accordance with the Contract Documents.

##### **B. Related Work Included Elsewhere**

1. Tampered fill; Section 02265.
2. Furnished topsoil; Section 02813.
3. Turf establishment; Section 02820.
4. Maintenance of Traffic; Section 01410.

##### **C. Quality Assurance**

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

##### **D. Submittals**

The Contractor shall submit the proposed method and schedule of operations for the building demolition to the Owner for review and approval prior to the start of demolition. The Contractor shall include a schedule for coordination of the capping, shutting off, and disconnection of utility services, including notification of the following: Southern Maryland Electric Cooperative, Bell Atlantic Telephone Company, Charles County Department of Public Facilities, and Miss Utility.

#### **02190.02 MATERIALS**

Not applicable.

#### **02190.03 EXECUTION**

##### **A. General**

1. The County assumes no responsibility for the actual condition of the structures to

be demolished.

2. The Contractor shall conduct demolition operations so as to prevent injury to adjacent buildings, structures, other facilities and persons. The Contractor shall provide all necessary bracing, exterior shoring or support to prevent movement, settlement, or collapse of adjacent structures which are to remain. All damages to adjacent facilities resulting from demolition operations shall be repaired by the Contractor at no cost to the County.
3. All below grade voids such as basements and septic tanks shall be completely backfilled.
4. Buildings and appurtenances designated for removal shall not be disturbed by the Contractor until the Contractor has received the Notice to Proceed. As soon as the notice and approval of the County Engineer have been received, the Contractor shall schedule these buildings for removal, razing, or occupation as one of the Contractor's first items of work.
5. Buildings and appurtenances designated for removal shall not be disposed of by burning.

**B. Pollution Controls**

- a. The Contractor shall use water sprinkling, temporary enclosures, and other suitable methods to limit dust and other fine particles rising into the air to the lowest practicable level. The Contractor shall comply with all governing regulations pertaining to environmental protection.
- b. Do not use water when it may create hazardous or objectionable conditions such as icing or flooding.
- c. Clean, adjacent structures and improvements of dust, dirt, or debris caused by demolition operations as directed by the County or governing authorities. Return adjacent areas to their condition existing prior to the start of demolition.

**C. Artifacts**

- a. It is possible that there may be historical or antique items such as, but not limited to, papers, plaques, books, documents, records, coins, utensils, etc. in the structures to be demolished. All such items shall become the property of the County.
- b. The County Engineer shall be the sole judge as to whether or not such materials or items are of historical or archeological value.
- c. The Contractor shall be responsible for the delivery of all such material to the County Engineer.

**D. Use of Building to be Removed**

Any building used by the Contractor for purposes such as Field Office, storage, etc. may remain as an exception of the above but shall be immediately disposed of when vacated.

**E. Salvaged Materials**

Salvaged materials shall become the property of the Contractor, unless otherwise specified, and the materials when sold by the Contractor shall be removed by the purchaser only during the daylight hours, Monday through Saturday, and in company with an authorized Contractor's representative.

**F. Contractors Responsibility**

It shall be the Contractor's responsibility for posting and protecting the buildings from vandalism or theft until they are removed in order that the properties will not become a blight to the surrounding neighborhood. It shall also be the Contractor's responsibility to obtain all demolition permits, including payment of fees for the demolition of the structure and the termination of all utility services, obtaining disposal permits and purchase water for dust control. The Contractor shall acquire all necessary permits and pay all taxes, fees and costs in connection with the work. The Contractor shall prepare and file all documents necessary to obtain the necessary approvals. The Contractor shall deliver all Inspection and Approval Certificates to the owner prior to Substantial Completion Acceptance of the work.

**G. Building Designation**

The locations of the buildings identified on the Proposal Form will be designated on the Plans by the numbers 1,2,3, etc.

**H. Traffic Control**

The Contractor shall take all necessary precautions for the protection of the work and the safety of the public. Traffic Control shall be in accordance with Section 01410, Maintenance of Traffic, unless otherwise specified on the Drawings.

**02190.04 METHOD OF MEASUREMENT**

RESERVED FOR FUTURE USE

**02190.05 BASIS OF PAYMENT**

RESERVED FOR FUTURE USE