

## SECTION 02230 - SITE CLEARING, DEMOLITION, AND REMOVALS

## PART 1 - GENERAL

## 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Protecting existing trees and landscaping to remain.
  - 2. Removing existing trees, shrubs, etc.
  - 3. Clearing and grubbing.
  - 4. Stripping and stockpiling topsoil.
  - 5. Removing above- and below-grade site improvements.
  - 6. Disconnecting and capping or sealing site utilities.
  - 7. Construction Fence (8' High Chain Link Fence)
- B. See Division 1 Section "Temporary Erosion and Sediment Control" for temporary erosion and sedimentation control measures.
- C. See Division 2 Section "Tree Protection and Trimming" for requirements related to tree protection.
- D. Related Sections include the following:
  - Section 02300 – Earthwork

## 1.2 RELATED DOCUMENTS

- A. Virginia Erosion and Sedimentation Control Handbook, Latest Edition
- B. Underground Utility Protection Ordinance – Chapt. 55 Arlington County Code
- C. Local Governing Authority and Code Requirements – Chapt. 57 Arlington County Code
- D. Arlington County DES Construction Standards and Specifications
- E. Tree Protection Standards and Fencing Requirements – as contained in Arlington County Landscape Standards, latest edition (CPHD)
- F. Construction Drawings

## 1.3 ENVIRONMENTAL REQUIREMENTS

- A. Construct temporary erosion control systems as shown on Construction Drawings and in accordance with applicable County requirements to protect adjacent properties and water resources from erosion and sedimentation.

#### 1.4 MATERIAL OWNERSHIP

- A. Except for stripped topsoil, items identified by the Project Officer as salvage, or other materials indicated to remain Project Officer's property, cleared materials shall become Contractor's property and shall be removed from Project site.

#### 1.5 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Project Officer and authorities having jurisdiction.
  - 2. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- B. Salvable Improvements: Carefully remove items indicated by the Project Officer to be salvaged and store on County's premises where indicated.
- C. Utility Locator Service: Notify Miss Utility for utility location services 72 hours prior to site clearing.
- D. Do not commence site clearing operations until temporary erosion and sedimentation control measures are in place.

### PART 2 - PRODUCTS

#### 2.1 SOIL MATERIALS

- A. Satisfactory Soil Materials: Requirements for satisfactory soil materials are specified in Division 2 Section "Earthwork."
  - 1. Obtain approved borrow soil materials off-site when satisfactory soil materials are not available on-site.

#### 2.2 CONSTRUCTION FENCE

- A. Fabric: Fabric shall be 9 Ga., galvanized steel wire woven into 2 inch diamond mesh, knuckled at the bottom and barbed at the top.
- B. Line Posts: Line posts shall be 2 ½ inch O.D. galvanized steel, standard weight pipe conforming to F 1083, schedule 40, weighing 3.65 pounds per linear foot.
- C. Terminal Posts: Terminal posts shall be 3 inch O.D. galvanized steel, standard weight pipe conforming to ASTM F1083 schedule 40, weighing 5.79 pounds per linear foot.

- D. Braces: Braces shall be 1 5/8" inch O.D. galvanized steel, standard weight pipe conforming to ASTM F 1083, schedule 40, weighing 2.27 pounds per linear foot. Trusses shall be 5/16" diameter adjustable truss rods.
- E. Top and Bottom Tension Wire: Wire shall be No. 6 gauge galvanized wire.
- F. Fittings and Hardware: Hardware, fittings and post caps shall be ductile iron, cast steel or pressed steel, all hot dipped galvanized.
- G. Gates: A gate of similar construction as the fence shall be provided with locks. Gates shall be placed at locations as shown on the plans or as required by the Contractor / Owner and approved by the Project Officer. The Project Officer shall be supplied with a set of keys, one (1) key for every lock.

### PART 3 - EXECUTION

#### 3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Erect temporary tree protection fencing around existing trees to remain as indicated on the drawings and as specified in Division 2 Section "Tree Protection and Trimming"
- C. Protect existing site improvements to remain from damage during construction.
  - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

#### 3.2 CLEARING AND GRUBBING

- A. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
  - 1. Place fill material in horizontal layers not exceeding a loose depth of 6 inches, and compact each layer to a density equal to adjacent original ground.

#### 3.3 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to whatever depths are encountered in a manner to prevent intermingling with underlying subsoil or other waste materials.
- C. Stockpile topsoil materials away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust.

### 3.4 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction.

### 3.5 DISPOSAL

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

END OF SECTION 02230