

## **Conditions of Use/ Responsibility of Data**

These "guideline" specifications are to be used by the A/E as a base document in the development of project/site-specific Division 2 – SITE WORK specifications for Montgomery County Public Schools Construction Projects. They may or may not be complete, correct and/or appropriate for use for any given project. It is the responsibility of the A/E to review these "guideline" specifications and to edit and/or supplement them as required to ensure that they represent the full, complete, correct and code-compliant specifications required for all construction of the project to which they apply. The use of these "guideline" specifications, and/or any information herein, in no way releases the A/E from their Contractual responsibility to prepare and provide the full, complete and correct code-compliant Contract documents, plans and/or specifications required for construction.

Review and editing of these "guideline" specifications shall be performed by appropriately licensed Maryland professional engineer. Specifications are to be prepared in Microsoft Word, edited using the "Track Changes" feature of that software and submitted to MCPS electronically on a compact Disk for review.

## **SECTION 02000 - CLEARING**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS:**

- A. Drawings and general provisions of Contract including General and Supplementary Conditions, and Division 1, Specification Sections apply to work in this section.

#### **1.2 DESCRIPTION OF WORK:**

- A. Section specifies materials and work required to clear project site.

#### **1.3 RELATED SECTIONS:**

- A. Refer to Section 02050 "Demolition"
- B. Refer to Section 02100 "Earthwork and Grading"
- C. Refer to Section 02900 "Tree Conservation"
- D. Refer to Section 02910 "Lawns"

#### **1.4 CODES AND STANDARDS:**

- A. Maryland Standards and Specifications for Soil Erosion and Sediment Control, current edition.
- B. Comply with applicable federal, state and local disposal requirements and regulations for material removed from site.
- C. Recycle, compost and/or salvage plants and demolition waste in accordance with Division 1, "Construction Waste Management" requirements
- D. Comply with permits, approved plans and conditions thereof.
- E. Comply with terms and conditions of Approved final Forest Conservation Plan, Tree Save Plan or other Landscape Credit Plans.

1.5 PROJECT CONDITIONS:

- A. Refer to Section 02100 "Earthwork and Grading" and as noted.
- B. Existing Utilities: Locations of existing utilities are approximate. Locations have been determined from field survey, public utility records and Owner records.
  - 1. Contractor shall be responsible for contacting "Miss Utility" and Owner or controlling agencies of existing utilities within construction area for verification of locations, prior to beginning of work.
  - 2. Contractor shall be responsible for coordination of utility relocation or removal by others with phases of construction activities.
- C. Traffic: Conduct site-clearing operations to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct streets, walks, or other occupied or used facilities without permission from authorities having jurisdiction.
- D. Protection of existing improvements: Provide protections necessary to prevent damage to existing improvements indicated to remain in place.
  - 1. Protect improvements on adjoining properties and on Owner's property.
  - 2. Restore damaged improvements to original condition, as acceptable to property Owners.
- E. Protection of Existing Trees and Vegetation: Employ and provide services of an appropriately Licensed Maryland Arborist at no additional cost to Owner, when necessary, that appropriate measures are implemented to ensure continued health of and protect existing trees and vegetation indicated to remain in place. Protect existing trees and vegetation indicated to remain in place protected against unnecessary cutting, breaking or skinning of roots, skinning or bruising of bark, smothering of trees by stockpiling construction materials or excavated materials within drip line, excess foot or vehicular traffic, or parking of vehicles within drip line. Provide temporary guards to protect trees and vegetation to be left standing. Clearing operations are to be conducted in strict accordance with requirements of approved Final Forest Conservation Plan, Tree Save Plan or other landscape credit plan for project.
  - 1. Water trees and other vegetation indicated to remain during clearing and subsequent construction operations within limits of Contract work as required maintaining health during construction operations.
  - 2. Provide protection for roots over 1-1/2 inch in diameter that are cut during construction operations. Coat cut faces with emulsified asphalt or other acceptable coating formulated to use on damaged plant tissues. Temporarily cover exposed roots with wet burlap to prevent roots from drying out; cover with earth as soon as possible.
  - 3. Repair or replace trees and vegetation to remain that are damaged during construction operations in a manner acceptable to Architect. Employ a licensed arborist to repair damage to trees and shrubs.
  - 4. Replace trees that cannot be repaired and restored to full-growth status, as determined by arborist.
  - 5. Trees and plants indicated to be relocated shall be prepared, moved, protected and maintained under direction of e arborist.

- F. Salvageable Improvements: Carefully remove items indicated to be salvaged and, unless directed otherwise, store on Owner's premises where indicated or directed.

1.6 EXISTING SERVICES:

- A. General: Indicated locations are approximate; determine exact locations before commencing work.
- B. Notify affected utility companies in advance and obtain approval before starting Work.
- C. Place markers to indicate location of disconnected services. Identify service lines and capping locations on project record documents.

1.7 SUBMITTALS:

- A. Submit written advanced notification to public utility companies as required by respective utility purveyor, but no less than one week prior to planned work, for disconnection of active utilities.
- B. Documentation of legal off-site disposal areas.

1.8 DEFINITIONS:

- A. Topsoil: Topsoil shall conform to requirements of Section 02910 "Lawns".

1.9 CONSTRUCTION SURVEYS:

- A. Provide survey equipment and qualified personnel for construction surveys. Provide stakes, fencing and/or flag trees as required by Maryland-National Capital Park & Planning Commission Inspector and Sediment Control Inspector to designate limits of clearing operations/limits of disturbance.

**PART 2 - PRODUCTS:**

2.1 TEMPORARY TREE PROTECTION FENCING:

- A. Temporary Tree Protection Fencing: Provide "Temporary Tree Protection" for trees indicated to remain, and as required for existing trees beyond indicated "Clearing and Grading Limits". Install as indicated or required in accordance with standards of "Maryland-National Capital Park and Planning Commission", and as noted.
- B. Fence Posts: Install posts, spaced no more than 10 feet on center, by driving plumb to one-third post height above grade. Stretch fence fabric between posts and fasten securely to steel posts with tie wire.
  - 1. Steel "T" or "U" channel, with punched or riveted lugs for fence attachment.
  - 2. Weight: 1.33 pounds per linear foot
  - 3. Length: 66 inches
  - 4. Bottom End Shape: Pointed
  - 5. Finish: Rust inhibitive primer paint
- C. Fence Fabric: 14 Gauge 2 inch X 4 inch Welded Wire Fence.
  - 1. Fabric Height: Three (3) Feet

**PART 3 - EXECUTION**

3.1 SITE CLEARING:

- A. General: Clear project site, removing trees and vegetation, within "Clearing and Grading Limits" indicated. Remove trees, shrubs, grass, and other vegetation, improvements, or

obstructions, as required, to permit installation of new construction. Remove similar items elsewhere on site or premises as specifically indicated. Removal includes digging out and off-site disposal of stumps and roots. Repair or remove and replace trees indicated "To Remain" or located beyond indicated "Clearing and Grading Limits" and damaged by clearing or subsequent construction operations, with new trees of equal species, caliper and quality, as directed by Architect, at no increase to Contract Sum

1. Cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new construction.
- B. Topsoil Stripping: Topsoil shall conform to definitions and requirements of Section 02910 "Lawns".
1. Strip topsoil within Limits of Disturbance or Clearing and Grading Limits shown on approved plans. Strip topsoil to whatever depths encountered in a manner to prevent intermingling with underlying subsoil or other objectionable material. Remove heavy growths of grass from areas before stripping.
    - a. Where existing trees are indicated to remain, leave existing topsoil in place within drip lines to prevent damage to root system.
    - b. Do not strip topsoil in any areas beyond limit of disturbance shown on approved Sediment Control and/or Final Forest Conservation Plan.
  2. Stockpile topsoil in storage piles in areas indicated or directed. Construct storage piles to provide free drainage of surface water. Cover storage piles as required to prevent wind erosion. Vegetatively stabilize any stockpiles to remain exposed over fourteen (14) calendar days. Stockpile areas shall be encompassed with silt fence.
- C. Clearing and Grubbing: Clear site of trees, shrubs, and other vegetation, except for those indicated to be left standing.
1. Except as otherwise indicated on approved Final Forest Conservation Plan completely remove stumps, roots, and other debris within approved Limits of Disturbance as required to facilitate proposed construction. At a minimum completely remove stumps, roots and other debris to a minimum depth of 12-inches below existing or proposed grade.
  2. Use only hand methods for grubbing inside drip line of trees indicated to remain.
  3. Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.
  4. Place fill material in horizontal layers not exceeding 6 inches loose depth, and thoroughly compact each layer to a density equal to adjacent original ground or as otherwise indicated.
- D. Removal of Improvements: Remove existing above-grade and below-grade improvements as indicated and as indicated on mechanical or electrical drawings and as included under work of related Division 15 and 16 Sections. Removal of abandoned underground piping or conduits interfering with construction is included under this Section. Remove existing overhead and underground utilities in accordance with specification section 02050 Demolition.

### 3.2 WASTE MANAGEMENT:

- A. Burning on Owner's Property: Burning is not permitted on Owner's property.

- B. Removal from Owner's property: Remove waste materials and unsuitable or excess topsoil from the Owner's property. On-site waste stockpiling is not permitted. Burning of waste materials is prohibited.
- C. Transportation and Disposal: Promptly transport combustible and non-combustible waste materials from project site to legal offsite disposal areas. Document legal offsite waste disposal areas.
- D. Recycling, Composting and Salvage: Recycle, compost and/or salvage site clearing debris in accordance with Division 1 "Construction Waste Management" requirements.
- E. Permitting and Approvals: Obtain required federal, state, county, local and Soil Conservation District approvals for off-site borrow areas or waste sites if located on private property and/or Maryland Department of the Environment- WMA approval if on State or Federal property. Furnish documentation of such local approvals in advance of any off-site borrow operations.

**END OF SECTION**