

SECTION 02110

SITE CLEARING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. **Drawings and general provisions** of the Contract, including other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. **This Section includes** the following:
1. Protection of existing trees indicated to remain.
 2. Removal of trees and other vegetation, as indicated.
 3. Topsoil stripping.
 4. Clearing and grubbing.
 5. Removal of above-grade improvements, where indicated.
 6. Removing of below-grade improvements.

1.3 PROJECT CONDITIONS

- A. **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.
1. Protection of Existing Improvements: Provide protections necessary to prevent damage to existing improvements indicated to remain in place.
 2. Protect improvements on adjoining properties and on Owner's property.
 3. Restore damaged improvements to their original condition, as acceptable to property owners.
 4. Protection of Existing Trees and Vegetation: Protect existing trees and other vegetation indicated to remain in place 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.
 5. Water trees and other vegetation to remain within limits of contract work as required to maintain their health during course of construction operations.
 6. Provide protection for roots over 1-1/2 inch in diameter that are cut during construction operations. Coat cut faces with an 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.
 7. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations in a manner acceptable to Engineer. Employ a licensed arborist to repair damage to trees and shrubs.

8. Replace trees that cannot be repaired and restored to full-growth status, as determined by arborist.

- B. Improvements on Adjoining Property:** Authority for performing removal and alteration work on property adjoining Owner's property will be obtained by Owner prior to award of contract.
1. Extent of work on adjacent property is indicated on Drawings.
 2. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated or directed.

1.4 EXISTING SERVICES

- A. General:** Indicated locations are approximate; determine exact locations before commencing Work.
- B. Arrange and pay for** disconnecting, removing, capping, and plugging utility services. Notify affected utility companies in advance and obtain approval before starting this Work.
1. Place markers to indicate location of disconnected services. Identify service lines and capping locations on Project Record Documents.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION

3.1 SITE CLEARING

- A. General:** 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.
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:** Topsoil is defined as friable clay loam surface soil found in a depth of not less than 4 inches. Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects over 2 inches in diameter, and without weeds, roots, and other objectionable material.
1. 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. Stockpile topsoil in storage piles in areas indicated or directed. Construct storage piles to provide free drainage of surface water. Cover storage piles, if required, to prevent wind erosion.
 2. Dispose of unsuitable or excess topsoil as specified for disposal of waste material.
- C. Clearing and Grubbing:** Clear site of trees, shrubs, and other vegetation, except for those indicated to be left standing.
1. Completely remove stumps, roots, and other debris protruding through ground surface.

- a. Use only hand methods for grubbing inside drip line of trees indicated to remain.
 - b. Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.
- D. **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.
- E. **Removal of Improvements:** Remove existing above-grade and below-grade improvements as indicated and as necessary to facilitate new construction.
 - 1. Removing abandoned underground piping or conduits interfering with construction are included under this Section.

3.2 DISPOSAL OF WASTE MATERIALS

- 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 Owner's property.

END OF SECTION