<u>NOTE TO CONSULTANTS</u>: Edit with <u>Track Changes</u> turned on, any text in this section that appears in bold and italics then turn off the bold and italics for the final approved version. This Specification must be edited for each project's special conditions. Do not include these instructions in the Contract Documents).

PART 1 – GENERAL

1.01 Summary:

A. This Section includes specifications for clearing, grubbing, and disposing of vegetation, including bushes, brush, trees, stumps, roots, rubbish, refuse, trash, and debris within the indicated site limits.

B. Related Sections: The work of the following Sections is related to the work of this Section. Other Sections, not referenced below, may also be related to the proper performance of this work:

Section 01 56 39 - Temporary Tree & Plant Protection
Section 02 41 00 - Site Demolition
Section 31 00 00 - Earthwork

PART 2 – PRODUCTS

2.01 Materials & Equipment:

A. Furnish materials, tools, equipment, facilities, and services as required for performing site clearing, grubbing.

PART 3 – EXECUTION

3.01 Preparation:

A. For sites that are identified possible Archaeological Sites or possible landfills or historic "dump" sites, prior to clearing and grubbing operations, the Contractor shall notify the Engineer at least one week in advance of planned activities and make work sites available to SPR's Consulting Archaeologist for observation. Notify the Engineer in the event artifacts are discovered during clearing work.

B. Dispose of cleared, grubbed, and removed material away from the site. Burying and burning of materials at the site is not permitted. Stockpile salvaged material in a secured location.

C. Clear and restore areas used for the Contractor's convenience; restore areas to original condition providing mulching, seeding, and planting as required.

D. Protect survey markers and monuments, existing improvements, existing observation wells and piezometers, and adjacent properties from removal and damage.

E. Protect all trees, lawns, and planted areas that are not in direct conflict with the work shown on the Contract Documents. Restore all on-surface disturbed areas to a condition satisfactory to the Engineer.

F. Review with the Resident Engineer the location, limits, and methods to be used before clearing work. Perform clearing and grubbing in compliance with all local, state, and federal laws and requirements pertaining to clearing and grubbing.

G. Care of Existing Trees: Protect trees and plants indicated in the Contract Documents to remain and to be preserved as specified in Section 01 56 39 - Temporary Tree & Plant Protection.

H. Tree Salvage:

1. Prior to tree removal, attend an on-site meeting with the Engineer to review requirements for tree salvage for each tree.
2. For tree salvage, de-limb all trees and cut into 14 ft sections with a minimum diameter of 12 inches.
3. Clearly label each log with the tree tag number in weatherproof ink or paint.
4. Salvage the trees in the following list:
5. Tree Salvage Chart:

Tag Number	Common Name	Tag Number	Common Name

3.02 Clearing and Grubbing:

A. Clear the site within the limits indicated on the Contract Documents and remove cleared materials and debris from the site. Unless otherwise indicated, clearing and grubbing includes removal of all roots, grass and debris from the existing ground.

B. Remove stumps and roots completely in excavation areas and under embankments where the original ground level is within 3-1/2 feet of sub-grade or slope of

embankments. In embankment areas, where the original ground level is more than 3-1/2 feet below the sub-grade or slope of embankment, cut off trees, stumps, and brush to within 6 inches of the ground.

C. Do not start earthwork operations in areas where clearing and grubbing are not complete. Stumps and large roots may be removed concurrently with excavation.

1. Where the work includes requirements for wood chip mulch, acceptable material from clearing and grubbing activities may be used to produce such mulch.

D. Demolition/Removal:

1. Coordinate the work of this Section with the work of Section 02 41 00, Demolition, as required to remove existing pavements, curbs, structures, and site improvements which interfere with new construction and where demolition is not indicated.

E. Disposal of Cleared Vegetation, Grubbed Material and Waste:

1. Dispose of in a safe, acceptable manner, in accordance with applicable laws and ordinances.
   a. Do not bury or burn trash and/or debris on the site.
   b. Remove cleared vegetation, grubbed material and waste from the site at frequent intervals so that its presence will not delay the progress of the Work or cause hazardous conditions for workers and the public.
   c. Removed materials, waste, trash, and debris shall become the property of the Contractor. Remove such materials from the Site and dispose of in a legal manner. It is the responsibility of the Contractor to locate disposal sites and determine length of haul route.
2. Backfill: Backfill excavations resulting from work under this Section in accordance with applicable requirements of Section 31 00 00 - Earthwork.

END OF SECTION