

PART 1 GENERAL

1.1 SCOPE:

- A. This Section covers work necessary to clear, remove and dispose of all debris and vegetation such as stumps, trees, logs, roots, shrubs, vines, grass and weeds within the designated limits, to preserve from injury or defacement such objects and vegetation as are designated to remain in place, and to perform final clean-up of the area.
- B. Clearing is defined as cutting of trees, brushes, vines, and other vegetative growth at or above ground surface and removal from the site of all such cut or down vegetation.
- C. Grubbing is defined as removal of vegetation growth and natural wooden items remaining at or below ground surface following the clearing operation.
- D. Review with the Engineer the location, limits, and methods to be used prior to commencing work under this Section.
- E. Removal of man-made structures, including, but not limited to, concrete slabs, walls, vaults, footings, asphaltic surfaced areas, and graveled areas, shall be included in payment for excavation.

PART 2 PRODUCTS

2.1 GENERAL:

- A. All equipment shall be in good working condition and safe to operate in Public Rights-of-Way.
- B. Explosives shall not be allowed for grubbing work unless the following conditions can be proved to the Engineer.
 - 1. Blasting will in no way pose any danger to people, structures, utilities, etc., in, around, under, and/or adjacent to the project area.
 - 2. Blasting is cost effective to the Owner and will comply with condition No.1.
 - 3. The Contractor can prove he is insured to cover the proposed demolition and has met conditions No.1 and No.2.
 - 4. The Contractor, or his subcontractor, can supply a resume' of prior work using the proposed explosives in a safe manner.

PART 3 EXECUTION

3.1 GENERAL:

- A. All trees, designated to be removed, shall be considered salvage for the Contractor.

3.2 PROTECTION OF EXISTING VEGETATION:

- A. Protect all trees, shrubbery, and other vegetation, not designated for removal, from damage caused by the work. Cut and remove tree branches only where approved. When directed, remove branches other than those required to provide a balanced appearance of any tree. Seals from removal of branches shall be treated with an approved tree sealant.

3.3 CLEARING:

- A. Clear all area above the natural ground surface of all vegetable growth and objectionable materials, and cut timber and timber growth so that no stump extends above ground surface more than 6-inches.
- B. Stockpile all material free of roots, vines, branches, and the like that may be used as unclassified backfill.

3.4 GRUBBING AND STRIPPING:

- A. On excavation areas, remove all roots and embedded wood to a depth not less than 6-inches below subgrade or slope surface through which excavation is required.
- B. On areas to be occupied by embankments, remove all roots and embedded wood to a depth not less than 1 foot below subgrade or slope surface on which the embankment is to be constructed.

3.5 DISPOSAL OF WASTE MATERIAL:

- A. Remove and dispose of all waste materials of debris. When burning is permitted by law, pile all trees, stumps, brush, roots, and similar combustible material within the cleared area and dispose of by burning, subject to air quality standards and permits. Remove all waste material from the site when burning is not permitted, when not combustible, or when not practicable to burn.

3.6 BACKFILLING AND CLEAN-UP

- A. In areas not subject to future excavations or filling, fill all holes and depressions caused by clearing and grubbing with material acceptable to the Engineer and reshape area to conform to adjacent undisturbed topography.
- B. Leave work area in a clean condition, free from litter and debris.

3.7 MEASUREMENT AND PAYMENT:

- A. Clearing and grubbing will be paid for at the unit price as in the Bid for the quantity of work accomplished and measured in the field.

PART 4 TESTING

4.1 GENERAL:

- A. The Engineer shall require any testing necessary to ensure work has been performed in the manner specified in accordance with recognized standard testing and lab procedures.

END OF SECTION