

SECTION 1000 - SITE PREPARATION

1001 SCOPE. This section covers the necessary clearing, grubbing, demolition, and other appurtenant work in accordance with the approved plans.

1002 DEFINITIONS.

- a. Clearing. Clearing shall consist of the removal of all vegetable matter, such as trees, brush, down timber, rotten wood, sod, rubbish, and other objectionable combustible materials. It shall include the removal of wood buildings, fences, lumber, waste dumps, abandoned utilities, and trash, and salvaging the specified materials.
- b. Grubbing. Grubbing shall consist of the removal of all stumps, roots, buried trees and brush, and other objectionable combustible materials appearing on or below the surface of the ground which has not been included under the definition of "*Clearing*" above.
- c. Demolition. Demolition shall include destruction and removal of all non-vegetative matter located above, on or below the ground surface. This shall include, but not limited to, all material derived from the demolition of Portland cement concrete items such as base courses, curbs, curb and gutters, sidewalks, flows, steps, driveways, drainage structures, fences, other miscellaneous items such as foundations or walls, iron or steel items and asphaltic items such as pavement and base courses.
- d. Trees. Vegetable growth forty (40) inches or greater in circumference, measured two (2) feet above the ground shall be classified as a tree.
- e. Brush. Vegetable growth less than forty (40) inches in circumference, measured two (2) feet above the ground shall be classified as brush.

1003 UTILITY COORDINATION. The Contractor shall be responsible for protecting existing and private improvements in the vicinity of clearing, grubbing and demolition operations. The Contractor shall not be responsible for the cost of utility locating services, but he shall be responsible for the cost of all damage to such facilities arising from his carelessness or negligence.

1004 LIMITS OF CONSTRUCTION. The limits of clearing, grubbing, and demolition shall be as defined on the approved plans.

1005 PROGRESS OF CONSTRUCTION.

- a. Erosion and Sedimentation Control. Prior to clearing, grubbing, and demolition, erosion, and sedimentation controls shall be in place in accordance with Section 7300.
- b. Clearing. Clearing shall proceed well in advance of the construction operation so as not to delay the progress of the work. The debris from clearing operations shall be lawfully hauled to a waste site, or shall be burned when authorized by the Fire Marshal. Under no circumstances will the authorization to burn on the site relieve the contractor in any way from damages which may result from his operations. In no case shall any materials be left on the project site, shoved into abutting properties, or buried in embankments or trenches on the site.

- b. **Grubbing.** Erosion control measures shall be in place prior to the start of grubbing operations. Grubbing shall parallel the clearing as nearly as the sequence of operations will permit. Except for the special circumstances enumerated below, all stumps, roots, and other objectionable matter within the construction area shall be removed to a minimum depth of twelve (12) inches below the subgrade or the original ground, whichever is lower. All stumps, roots, and other objectionable matter outside the limits of the construction area but within the right-of-way shall be cut off flush with the ground.

All stumps, roots, and other objectionable matter within the specified limits of embankments having a depth of two (2) feet or less shall be removed and disposed of. Piling and butts of utility poles within the limits shall be removed to a minimum depth of two (2) feet below the subgrade or the original ground, whichever is lower.

All stumps, roots, and other objectionable matter found within borrow material shall be removed.

All stumps, roots, and other objectionable matter found within the bottoms or sidewalls of excavation and trenching areas shall be completely removed from the respective bottom areas, and removed to a minimum depth of twelve (12) inches below the respective sidewalls.

- c. **Demolition.** Demolition work shall occur well in advance of the construction operation. Masonry and concrete walls, miscellaneous foundations, or other objects extending below ground shall be removed to a depth of at least twelve (12) inches below the original ground or the subgrade, whichever is lower.

When explosives are used in demolition, the contractor shall comply with the provisions of Specification Section 6100 *Blasting*.

Portland cement concrete pavement, base courses, curbs, curb and gutters, gutters, sidewalks and similar objects shall be removed at an existing joint or at a full depth sawed joint.

- 1006 PROTECTION OF TREES AND SHRUBS.** Tree preservation areas, protection zones and stream setback areas shall be protected in accordance with the approved plans using the standard orange barricade fencing material approved by the City Engineer. The fencing shall be four (4) feet in height and supported by metal channel posts spaced at a maximum of eight (8) feet on center. The fencing shall be located at the drip line of all trees or wooded areas and shall remain erect and secure throughout all construction phases.

During construction operations, the Contractor shall leave in place and protect from damage all trees, shrubbery and planting beds unless shown on the approved plans to be removed. Where existing trees are to remain, it shall be the responsibility of the Contractor to perform trimming operations on low branches. The trimming shall be performed in a professional manner. The Contractor shall not operate equipment within the drip line of protected trees.

- 1007 CONSTRUCTION STAKING.** The Contractor shall be responsible for all staking required on the project unless otherwise stipulated in the approved plans. The Contractor shall be responsible for and shall provide all staking, furnish all stakes, labor, transportation, and other materials as may be required for the proper staking of the work and establish temporary or permanent reference marks. All work performed on the project shall be done to the lines, grades, and elevations shown

on the plans.

Any work done without being properly located and established by base lines, off-set stakes, benchmarks, or other basic references may be ordered to be removed and replaced at the Contractor's expense.

The Contractor shall be responsible for all preservation of all permanent monuments, property corners, benchmarks, reference points, and stakes. If the loss of stakes or reference marks causes a delay in the work, the Contractor shall have no claim for damages or extensions of time.