DIVISION 31 – EARTHWORK

31 10 00 - SITE CLEARING

A. Erosion Control Plan:

1. Erosion Control Plans (SWMP and GSPF) shall be required and submitted to University representatives for all projects that disturb more than 1 acre of land or where erosion may result in excessive sediment and/or debris entering the storm sewer system.

2. The Contractor will be required to obtain a General Stormwater Permit prior to construction.

3. Pre- and post-construction video inspection of storm sewer systems shall be required for all projects that will disturb soil within a 50-yard radius of a storm sewer. Post-construction video evidence shall demonstrate that zero additional debris was introduced into the system. The contractor shall be responsible for abatement of any debris washed into the system during the term of the construction contract.

4. For Temporary Facilities and Controls, see Division 01 – General Requirements.

5. For Sanitary Sewage and Storm Drainage Utilities, see Division 33 – Utilities.

B. Site Protection:

1. Trees: Prior to construction all trees to be saved shall have a properly constructed chain-link barricade which protects the total area within the dripline. The dripline is defined as the area on ground covered by spread of branches. If there is limited space on a site, and passage beside a tree is mandatory, a bridge is to be constructed over the root zone, and boards used to protect the tree trunk. Refer to the Drawing Appendix. No equipment or materials, including excavated soil shall be parked or stored within the dripline of a tree.

2. Turf: No equipment or materials shall be parked or stored on existing turf areas without prior approval from Facilities Management. If parking occurs on landscaped areas, the Contractor shall be responsible for repairing soil compaction, repair of irrigation systems and replacement of sod or other damaged plant material.

3. For Landscape and Irrigation System Damage, see Division 32 – Exterior Improvements.

C. Top Soil:

1. Top soil is a valuable commodity. Top soil shall be stripped to a depth of approximately 6 to 8 inches from all areas to be graded, excavated or filled. Top soil shall be separately stockpiled for replacement around the building at the completion of the job or otherwise disposed as directed by the Owner.

2. The condition of the top soil shall be evaluated by the Facilities Management-Grounds Services through the University Representative prior to reuse. Replacement top soil may be available through Facilities Management-Grounds Services. Consult the University Representative for the current charge rate.

D. Subsoil:

1. Subsoil designated for export to other locations on CSU property shall be cleaned by the contractor of any trash, pipe and concrete, and rocks over approximately 4 inches in diameter.
2. CSU occasionally may have fill available in the timeframe of the project; consult with the University Manager.

E. Trash Removal:

1. The contractor shall be responsible for removal of all trash, sand, gravel, road base, concrete, asphalt paving, pipe, cable, trench insulation, plant material, etc. during construction and at closeout.

F. Hazardous Waste Removal:

1. Removal of hazardous waste is the responsibility of the Contractor.

2. Plans and procedures for removal of hazardous waste shall conform to applicable codes and be submitted to the University Representative for approval by Environmental Health Services prior to removal of such materials.

31 20 00 – EARTHWORK

A. Excavations:

1. Excavations deeper than 4 feet shall be barricaded and follow OSHA Standards.

2. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, contact the University Representative immediately for direction. Cooperate with the University Representative in keeping respective services and facilities in operation. Damaged utilities must be repaired to the satisfaction of the University Representative.

B. Backfilling:

1. Excavations should be backfilled as promptly as work permits, but not until completion of inspection, testing, approval, and location recording of underground utilities.

2. Concrete tailings, sand, gravel and other debris will not be permitted in trenches.