

SECTION 31 22 19

FINISH GRADING

PART 1 - GENERAL

- 1.01 The work called for by this section shall include, but not necessarily be limited to, finish grading and the spreading and shaping of topsoil to the finished elevations indicated by the drawings.
- 1.02 Refer to other sections for work related to that specified under this heading. Coordinate this work with that specified by other sections for timely execution.

PART 2 - PRODUCTS

2.01 TOPSOIL

- A. Use stripped topsoil that has been stockpiled as specified elsewhere. If the quantity of topsoil on the project is inadequate, furnish enough additional topsoil to complete job as noted in this section and on the plans. Topsoil furnished shall be natural, fertile, friable soil possessing characteristics of representative productive soils in the vicinity. It shall be obtained from naturally well-drained areas. It shall not be excessively acidic or alkaline, nor contain toxic substances that may be harmful to plant growth. Topsoil shall be without admixture of subsoil and shall be cleaned and reasonably free from clay lumps, stones, stumps, roots, or similar substances 2 inches or more in diameter, debris, or other objects that are a hindrance to planting options. Such material shall be subject to testing.

PART 3 - EXECUTION

- 3.01 Do not begin work until the earth is dry enough to be tillable.
- 3.02 Inspect subgrades to see that they generally conform to the standards called for elsewhere in these specifications, particularly with regard to the approximate depth required for the work. After work is completed, inspect it to ensure that all finish grading complies with design requirements.
- 3.03 Place finished grade stakes wherever necessary to bring the work accurately to the elevations required by the drawings.
- 3.04 Finish grades all areas outside the building line to the depths required for the work as follows:
 - A. Grade uniformly with rounded surfaces at the tops and bottom of abrupt changes of planes.
 - B. Hand grade steep slopes and areas that are inaccessible for machine work.
 - C. Protect graded areas from undue erosion, and repair and re-grade areas where erosion does occur.
 - D. Refill areas where noticeable settlement has occurred.
 - E. Finish grade areas are to receive topsoil at a minimum depth of 6 inches below the finished contour elevations called for by the drawing or over rock at a minimum depth of 12 inches below these elevations. In areas that were pavement or gravel at the beginning of construction or where tree-wells or tree-islands in paved parking areas are planned, place topsoil at a minimum depth of 30 inches below the finished contour

elevation called for on the drawing or where over rock at a minimum depth of 36 inches. When rock is encountered, over-excavation of rock as required to install the minimum topsoil depth specified above shall be considered incidental to this section and shall be performed at no additional cost to the owner.

- 3.05 Place topsoil uniformly over disturbed areas that do not receive other work as follows:
- A. Obtain approval of the finish grading from the A/E before starting to place topsoil.
 - B. Scarify subgrade to a depth of 3 inches.
 - C. Place the topsoil in 6-inch lifts (lightly rolled) to reach the specified depth.
 - D. Level the topsoil so that it slopes uniformly and has no water pockets.
 - E. Carefully rake the topsoil by hand to remove all clods, roots, sticks, stones and other foreign material over 1 inch in diameter from the surface.
- 3.06 Dispose of excess materials and debris away from the site at no additional cost to the owner.

END OF SECTION