

Section 02218

Landscape Grading

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Finish grade subsoil and proof roll.
- B. Place, level, and compact topsoil.

1.02 RELATED WORK

- A. Section 01400 - Quality Testing.
- B. Section 02211 - Rough Grading
- C. Section 02223 - Backfilling.
- D. Section 02936 - Seeding: Finish ground cover.

1.03 SAMPLES

- A. Submit samples under provisions of Section 01400.
- B. Submit sample of topsoil material from onsite stockpile and all off site sources to be used for approval of Engineer.

1.04 PROTECTION

- A. Protect landscaping and other features remaining as final work.
- B. Protect existing structures, fences, roads, sidewalks, paving, and curbs.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Friable screened loam; free of subsoil, roots, grass, excessive amount of weeds, stone, and foreign matter; acidity range (pH) of 5.5 to 7.5; containing a minimum of 4 percent and a maximum of 25 percent organic matter, maximum soluble salt content of 500 ppm, maximum of 5% by volume of extraneous material exceeding 2 inches in diameter.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Verify site conditions and note irregularities affecting work of this Section.
- B. Beginning work of this Section means acceptance of existing conditions.

3.02 SUBSOIL PREPARATION

- A. Eliminate uneven areas and low spots. Remove debris, roots, branches, stones, in excess of 1/2 inch in size. Remove subsoil contaminated with petroleum products.
- B. Scarify subgrade to depth of 3 inches where topsoil is scheduled. Scarify in areas where equipment used for hauling and spreading topsoil has compacted subsoil.

3.03 PLACING TOPSOIL

- A. Place topsoil in areas where seeding, sodding, and/or planting is scheduled at depths shown in details.
- B. Use topsoil in a relatively dry state. Place during dry weather. Do not place on frozen ground.
- C. Fine grade topsoil eliminating rough or low areas. Maintain levels, profiles, and contours of grade.
- D. Remove stone, roots, grass, weeds, debris, and foreign material while spreading to sizes specified in 3.02.A above.
- E. Manually spread topsoil around trees, plants, building, and structure to prevent damage.
- F. Roll placed topsoil.
- G. Remove surplus subsoil and topsoil from site.
- H. Leave stockpile area and site clean and raked, ready to receive landscaping.

3.04 SOIL CONDITIONERS

- A. Dolomitic Limestone: ASTM C 602-
- B. Aluminum Sulphate: Standard commercial grade.
- C. Peat: FS Q-P-166, Type 1, Class B.

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- D. Perlite: Standard horticultural grade.

- E. Manure: Rotted a minimum of 6 months.
- F. Sawdust: Rotted a minimum of 24 months.
- G. Pesticides: As recommended by Department of Agriculture/Pesticide Control Board.
- H. Fertilizer:
 - 1. FS 0-F-241, Type 1, Grade B
 - 2. Available nutrients, % by weight.
 - a. 10 N
 - b. 6 P205
 - c. 4 K20
- I. Water: Harmless to plant growth.
- J. Soil conditioners to be used as an amendment to the topsoil to enhance grass growth, not solely as a topsoil material.

3.05 TOLERANCES

- A. Top of Topsoil: Plus or minus ½ inch.

3.06 SCHEDULE OF LOCATIONS

- A. The following paragraphs identify compacted topsoil thickness for various locations.
 - 1. Refer to plan details sheet