

SECTION 02930 - TURF SODDING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work Included: This work includes all labor, materials and equipment for soil preparation, fertilization, planting and other requirements regarding turfgrass sodding shown on the plans.
- B. Related Work Specified Elsewhere: Section 02300, Earthwork.

1.02 REFERENCE STANDARDS

- A. For exotic plant materials: American Joint Committee of Horticultural Nomenclature, Second Edition, 1942.
- B. For native materials
 - a. Manual of the Vascular Plants of Texas by Correll and Johnston
 - b. Check List of Vascular Plants of Texas by Hatch
 - c. Flora of North Central Texas by Shinnery and Moller

1.03 SUBMITTALS

Samples, certificates and specifications of sod, fertilizer, compost, soil amendments or other materials may be requested by the City.

All delivery receipts and copies of invoices for materials used for this work shall be subject to verification by the City.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Sod: Harvesting and planting operations shall be coordinated with not more than forty eight hours elapsing between the harvesting and planting.
- B. Fertilizer
 - 1. Unopened bags labeled with the analysis.
 - 2. Conform to Texas Fertilizer Law.

1.05 QUALITY CONTROL

The Developer/Contractor who plants the sod is responsible for supervision of his crew, while planting the sod and maintaining the sod until the project is accepted by the City.

PART 2 – PRODUCTS

2.01 SOD

- A. The sod shall be *Buchloe dactyloides* ("Prairie" Buffalograss) and shall consist of stolons, leaf blades, rhizomes and roots with a healthy, virile system of dense, thickly matted roots throughout the soil of the sod for a thickness not less than one inch. Sod shall be alive, healthy and vigorous and shall be free of insects, disease, stones and undesirable foreign materials and grasses. Sod shall have been produced on growing beds of clay or clay-loam topsoil. The sod shall not be harvested or planted when its moisture condition is so excessively wet or dry that its survival will be affected. If sod is stacked, it shall be kept moist and shall be stacked roots-to-roots and grass-to-grass.
- B. The sod shall be cut in strips four feet wide to be laid parallel with the contours.

2.02 FERTILIZER

- A. All fertilizer shall be delivered in bags or containers clearly labeled showing the analysis.
- B. All fertilizer shall be in acceptable condition for distribution and shall be applied uniformly over the planted area two weeks after sodding.
- C. All fertilizer shall have an analysis of 3-1-2 or as designated on the plans. The fertilizer rate shall be 45 pounds of nitrogen per acre.

2.03 WATER

The water shall be furnished by the Developer/Contractor and shall be clean and free of industrial wastes or other substances harmful to the germination of the seed or to the growth of the vegetation. The amount of water will vary according to the weather variables. Generally, the sod should be soaked one time per day for three weeks or until established. Soaking is mandatory after spreading the fertilizer.

2.04 COMPOST

All compost material is to be totally organic and decomposed for at least nine months. All compost is to be clean and free of fungus, disease, live plants, seed, excessive cotton lint and any harmful chemicals. "New Life Soil Conditioner" or "Perma Green Compost", as specified below or an approved equal, shall be used. Raw organics are not acceptable.

- A. For soil with an alkaline pH condition: Use "New Life Acid Gro" (acid pH) soil conditioner as produced by Soil Building Systems of Dallas, or an approved equal.
- B. For soil with an acidic pH condition: Use "Perma Green Compost" by Texas Earth Resources, Inc. of Dallas, or "New Life Natural Grower" (ph 8.0 to 9.0) by Soil Building Systems, Inc., of Dallas.
- C. Sample and Specification Submittal: Submit a producer's specification and a quart sample of the compost proposed for the City's approval.

PART 3 - EXECUTION

3.01 GENERAL

All turfing operations are to be executed across the slope, parallel to finished grade contours.

3.02 SOIL PREPARATION

- A. Scarify subgrade to a depth of three inches before depositing the required topsoil.
- B. Tillage shall be accomplished to loosen the topsoil, destroy existing vegetation and prepare an acceptable sod bed. All areas shall be tilled with a heavy duty disc or a chisel-type breaking plow, chisels set not more than ten inches apart. Initial tillage shall be done in a crossing pattern for double coverage, then followed by a disc harrow. Depth of tillage shall be five inches. A heavy duty rototiller may be used for areas to be planted with sod.
- C. Cleaning: Soil shall be further prepared by the removal of debris, building materials, rubbish, weeds and stones larger than one inch in diameter.
- D. Fine Grading: After tillage and cleaning, all areas to be planted shall be topdressed with one-half inch compost and then shall be leveled, fine graded, and drag with a weighted spike harrow or float drag. The required result shall be the elimination of ruts, depressions, humps and objectionable soil clods. This shall be the final soil preparation step to be completed before planting.

3.03 PLANTING

Prior to laying the sod, the planting bed shall be raked smooth to true grade and moistened to a depth of four inches, but not to the extent causing puddling. The sod shall be laid smoothly, tightly butted edge to edge, and with staggered joints. The sod shall be pressed firmly into the sod bed by rolling or by hand tamping with an approved tamper so as to eliminate all air pockets, provide a true and even surface, and insure knitting without displacement of the sod or deformation of the surfaces of sodded areas. Following compaction, compost shall be used to fill all cracks between sods. Excess compost shall be worked into the grass with suitable equipment and shall be well watered. The quantity of compost shall be such that it will cause no smothering or burning of the grass.

3.04 FERTILIZING

Twenty-one days after planting, turfgrass areas shall receive an application of 3-1-2 fertilizer at the rate of 45 pounds of nitrogen per acre. Water well after application to prevent burning.

END OF SECTION