

4. LAWNS AND GRASS RESTORATION ON EASEMENTS

4-A Scope. This section covers the work necessary for grass establishment, and lawn establishment, including furnishing and delivery of materials, seeding and maintenance of grass and lawns. No allowance will be made for any grass and lawn establishment outside the construction easement. The Contractor shall be responsible for any damage to lawn and grass areas outside the construction easement and shall repair as necessary using the grass seed mix specified for the adjacent restoration zone.

All work specified in this section shall be accomplished by experienced Landscape Contractors.

4-B Materials.

4-B-1 Fertilizer. Grass Areas - Ammonium Nitrate with 34% nitrogen

4-B-2 Fertilizer. Lawn areas - Commercial brand containing the following mineral elements in available form: 16% nitrogen, 16% phosphoric acid, 16% potash. A minimum of 50% of the nitrogen shall come from Uramite.

4-B-3 Straw Mulch. Threshed straw of oats, wheat or rye, free from seed of obnoxious weeds or other approved materials.

4-B-4 Seed. Seed shall be clean, delivered in original unopened packages bearing an analysis of the contents, guaranteed 95 percent pure, and to have a minimum germination rate of 85 percent, within one year of test. Seed for grass areas shall be the Faun Fescue variety. Seed for lawn areas shall consist, by weight, of the following mixture: Chewing Fescue - 35%, Illahae Creeping Fescue - 30%, Red Creeping Fescue - 25%, Astoria Bent - 10%.

4-C Workmanship.

4-C-1 Seeding. Not earlier than March 1 nor later than October 15 and within 10 days following soil preparation.

4-C-2 Soil Preparation. The Contractor shall cultivate soil to a minimum depth of 4 inches and bring surface to a true and even grade as shown on the Plans or as designated by the Engineer. Extraneous materials unearthed during cultivation shall be removed and disposed of. Seed bed shall be a minimum of one inch in depth, brought to a friable condition satisfactory for sowing seed. Seed beds shall be approved by the Engineer prior to seeding.

4-C-3 Seeding and Fertilizing. Grass Areas - Seed shall be distributed evenly with a mechanical spreader at rate of 60 pounds per acre, followed by an evenly spread application of fertilizer at rate of 175 pounds per acre. In areas where slopes exceed 5:1, the rates shall be 100 pounds per acre, followed by a fertilizer application rate as described herein.

4-C-4 Seeding and Fertilizing. Lawn Areas - Seed mixture shall be distributed evenly over area at rate of 4 pounds per 1,000 square feet, followed by an evenly spread application of fertilizer at rate of 20 pounds per 1,000 square feet. Rake to a depth of not more than one inch.

4-C-5 Mulching and Protection. The Contractor shall mulch all areas by spreading a uniform light cover of straw mulch over the seeded area at a rate of 1-1/2 tons per acre.

4-C-6 Maintenance Period. The Contractor shall begin maintenance immediately after each portion of lawn or grass is planted and continue for 8 weeks after all lawn or grass planting is completed.

4-C-7 Maintenance Operations. Lawn Areas - The contractor shall water to keep surface soil moist; repair washed out areas by filling with top soil, liming, and seeding; replace mulch on banks when washed or blown away; mow to 2 inches after grass reaches 3 inches in height, and mow frequently enough to keep grass from exceeding 3-1/2 inches.

4-C-8 Maintenance Operations. Grass Areas - The Contractor shall water as required to keep surface soil moist until the end of the grass guarantee period.

4-C-9 Grass and Lawn Guarantee. If, at the end of the 8-week grass and lawn maintenance period, a satisfactory stand of grass has not been produced, the Contractor shall renovate and reseed the grass or lawn or unsatisfactory portions thereof immediately; or, if after 15 October, during the next planting season. If a satisfactory stand of grass develops by 1 June of the following year, the lawn or grass will be accepted. If the lawn or grass is not accepted, a complete replanting will be required during the ensuing planting season following the requirements above.

A satisfactory stand is defined as a lawn or grass or section of lawn or grass that has:

- No bare spots larger than 3 square feet (lawn areas only);
- Not more than 10 percent of total area with bare spots larger than one square foot;
- Not more than 15 percent of total area with bare spots larger than x inches square.

4-D Payment. Payment for the work in this section will be made on the basis of the unit price bid as stated in the Contractor's Proposal. No payment will be made for lawn and grass establishment outside the construction easement limits.

4-D-1 Grass. Payment for establishment of grass will be made on the basis of the unit price per hundred square feet as stated in the Contractor's Proposal. Payment will be made on the basis of field measurements by the Engineer to the nearest 100 square feet of grass area. Payment will not be made until a satisfactory stand of grass is established.

4-D-2 Lawns. Payment for establishment of lawns will be made on the basis of the unit price per hundred square feet as stated in the Contractor's Proposal. Payment will be made on the basis of field measurements by the Engineer to the nearest 100 square feet of grass area. Payment will not be made until a satisfactory stand of lawn grass is established.

No additional payment will be made for lawns and grass replaced during the guarantee period.

Payment for lawn and grass will be made at the end of the 8-week maintenance period provided a satisfactory stand has been produced. If a satisfactory stand is not produced, payment for a minimum area of 1,000 square feet, or the unsatisfactory area, whichever is greater, shall not be made until the stand is replanted or accepted.

It is anticipated that some property owners will elect to receive a cash payment from the District in lieu of having their property restored under this section. The Contractor, in making a bid, agrees that the elimination of certain properties from the work will not be a basis for additional payment.