SECTION 805

SEEDING

805.1 Description. This work shall consist of furnishing and sowing seed as specified in the contract. All disturbed areas shall be seeded except for sodded areas, surfaced areas, solid rock, and slopes consisting primarily of broken rock.

805.2 Material.

805.2.1 The seed shall be grown and processed in the United States or Canada and shall comply with the requirements of the Missouri Seed Law. Certain lots of seed may be desirable for the advancement of a local ecotype when specified, and will be the only seed permitted. The following percentages for purity and germination or pure live seed will be the minimum requirements in the acceptance of seed, unless otherwise permitted by the engineer.

SEED REQUIREMENTS				
Non-native Grasses	**Scientific Name**	**Purity**	**Germination[a]**	**Pure Live Seed**
Bermuda Grass	Cynodon dactylon	95	80	
Smooth Bromegrass	Bromus inermis	85	80	
Kentucky Bluegrass	Poa pratensis	85	80	
Orchardgrass	Dactylis glomerata	85	80	
Perennial Ryegrass	Lolium perenne	98	85	
Tall Fescue	Festuca arundinacea	97	85	
Red Fescue	Festuca rubra	97	85	
Timothy	Phleum pratense	98	85	
Cereal or Cover Crop		**Purity**	**Germination**	**Pure Live Seed**
Annual Ryegrass	Lolium multiflorum	98	85	
Redtop	Agrostis alba	92	85	
Oat Grain	Avena sativia	98	85	
Rye Grain	Secale cereale	98	80	
Wheat Grain	Triticum aestivum	97	85	
Wildrye, Virginia	Elymus virginicus			60
Wildrye, Canada	Elymus canadensis			60
Legumes		**Purity**	**Germination**	**Pure Live Seed**
Korean Lespedeza	Lespedeza stipulacea	98	85	
Alsike Clover	Trifolium hybridum	98	85	
Red Clover	Trifolium pratense	98	85	
White Clover	Trifolium repens	98	85	
Hairy Vetch	Vicia villosa	97	80	

Partridge Pea	Chamaecrista fasciculate	98	80	
Native Grasses	**Scientific Name**	**Purity**	**Variety(s)**	**Pure Live Seed**
Big Bluestem	Andropgon gerardii		Mo. Ecotype Roundtree Kaw	40
Blue Grama	Bouteloua gracilis			40
Buffalograss	Buchloe dactyloides		Mo. Ecotype Sharp's Improved Texoka	65
Indiangrass	Sorghastrum nutans		Mo. Ecotype Rumsey Cheyenne	50
Little Bluestem	Schizachyrium scoparium		Mo. Ecotype Aldous Cimmaron	40
Eastern Gamagrass	**Tripsacum dactyloides**		Mo. Ecotype	
Sideoats Grama	Bouteloua curtipendula		Mo. Ecotype El Reno Trailway	40
Switchgrass	Panicum virgatum		Mo. Ecotype Trailblazer Cave-in-Rock	80
Wildrye, Virginia	Elymus virginicus			60
Wildrye, Canada	Elymus canadensis			60
Cluster Fescue	Festuca paradoxa		Mo. Ecotype	
Rough Dropseed	Sporobolus compositus		Mo. Ecotype	
Prairie Dropseed	Sporobolus heterolopus			
Prairie Cordgrass	Spartina pectinata			

[a]Will not apply if unhulled or unscarified seed is specified.

805.2.2 If the specified quantity is in pounds (kg) of seed, no reduction will be permitted in the specified quantity of seed if the purity or germination or both, are higher than the minimum required by the specifications. If the specified quantity is in pounds (kg) of pure live seed, the pure live seed quantity shall be determined from the actual percentage shown by the supplier for native grasses or by multiplying the actual percentages of purity times the actual percentage of germination, including hard seed for other seed.

805.2.3 All leguminous seed shall be inoculated or treated with the proper quantity of cultures approved for the particular legume to be sown. Leguminous seed will include alsike clover, Korean lespedeza, red clover, white clover, hairy vetch, partridge pea and slender bush clover.

805.2.3.1 The inoculant for treating leguminous seed shall be a nitrogen-fixing bacteria culture. The inoculant containers shall be plainly marked with the expiration date for use. The manufacturer's recommendations for inoculating seed shall be followed.

805.3 Construction Requirements.

805.3.1 The seedbed shall be prepared in accordance with Sec 801. Seeding shall be done before the seedbed becomes eroded. Seed shall be uniformly applied at no less than the rates specified.

805.3.2 Disturbed areas outside of authorized construction limits shall be seeded at the contractor's expense.

805.4 Acceptance. The performance standard shall be met before acceptance of the work. At least two random counts per acre (0.5 ha) in representative areas of the project will be conducted. All erodible seeded areas shall provide a minimum of 20 living plants, uniformly spaced, of the specified type per square foot (0.1 m^2). For areas with a large percentage of rock, the number of living plants shall be proportional to the percentage of erodible surface, as determined by the engineer. Inspection for acceptance will be made within 60 days after seeding, excluding seeding dates that fall between September 30 and March 1. Seeding dates that fall between September 30 and March 1 will be counted no earlier than May 1.

805.5 Corrective Action. Inadequate stands shall be reworked and reseeded within the time period agreed upon at the contractor's expense. On previously accepted seeded areas, the engineer may authorize eroded areas to be repaired in accordance with Sec 104.3.

805.6 Method of Measurement. Measurement of seeding will be made of the area seeded to the nearest 1/10 acre (0.05 ha).

805.7 Basis of Payment. The accepted quantity of seeding will be paid for at the contract unit price. No direct payment will be made for liming, fertilizing or seedbed preparation.