

EROSION CONTROL

SEEDING AND MULCHING:

7-17-07

(East)

S-1

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

All Roadway Areas

March 1 - August 31		September 1 - February 28	
50#	Tall Fescue	50#	Tall Fescue
10#	Centipede	10#	Centipede
25#	Bermudagrass (hulled)	35#	Bermudagrass (unhulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone

Waste and Borrow Locations

March 1 - August 31		September 1 - February 28	
75#	Tall Fescue	75#	Tall Fescue
25#	Bermudagrass (hulled)	35#	Bermudagrass (unhulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone

Note: 50# of Bahiagrass may be substituted for either Centipede or Bermudagrass only upon Engineer's request.

Approved Tall Fescue Cultivars

Adventure	Brookstone	Grande	Rebel Jr
Adventure II	Bonanza	Guardian	Rebel II
Airlie	Bonanza II	Houndog	Red Coat
Amigo	Bulldog 51	Inferno	Renegade
Anthem	Chapel Hill	Jaguar	Safari
Anthem II	Chesapeake	Jaguar III	Shelby
Apache	Chieftain	Kentucky 31	Shenandoah
Apache II	Coronado	Kitty Hawk	Southern Choice II
Arid	Crossfire II	Monarch	South Paw
Arid II	Debutante	Montauk	Tempo
Arid III	Duster	Mustang	Titan
Aztec II	Escalade	Olympic	Tomahawk
Barfexas	Falcon	Pacer	Tacer
Barfexas II	Falcon III	Paraiso	Trailblazer
Barrera	Finelawn	Pixie	Tribute
Barrington	Finelawn I	Pyramid	Trooper
Bingo	Finelawn Petite	Quest	Wolfpack
Bravo	Genesis	Rebel	Wrangler

On cut and fill slopes 2:1 or steeper Centipede shall be applied at the rate of 5 pounds per acre and add 20# of Sericea Lespedeza from January 1 - December 31.

Fertilizer shall be 10-20-20 analysis. Upon written approval of the Engineer, a different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis.

Temporary Seeding:

Fertilizer shall be the same analysis as specified for "Seeding and Mulching" and applied at the rate of 400 pounds (450kg) and seeded at the rate of 50 pounds per acre (55kg per hectare). Kobe or Korean Lespedeza, German Millet, or Browntop Millet shall be used in summer months and rye grain during the remainder of the year. The Engineer will determine the exact dates for using each kind of seed.

Fertilizer Topdressing:

Fertilizer used for topdressing shall be 16-8-8 grade and shall be applied at the rate of 500 pounds per acre (560 kg per hectare). Upon written approval of the Engineer, a different analysis of fertilizer may be used provided the 2-1-1 ration is maintained and the rate of application adjusted to provide the same amount of plant food as 16-8-8 analysis.

Supplemental Seeding:

The kinds of seed and proportions shall be the same as specified for "Seeding and Mulching", and the rate of application may vary from 25# to 75# per acre (28kg to 85kg per hectare). The actual rate per acre (hectare) will be determined by the Engineer prior to the time of topdressing and the Contractor will be notified in writing of the rate per acre (hectare), total quantity needed, and areas on which to apply the supplemental seed. Minimum tillage equipment, consisting of a sod seeder shall be used for incorporating seed into the soil as to prevent disturbance of existing vegetation. A clodbuster (ball and chain) may be used where degree of slope prevents the used of a sod seeder.

BASIS OF PAYMENT:

Except for temporary silt fence, payment for all erosion control, including but not limited to seeding and mulching, stone, temporary seeding, fertilizer topdressing, matting for Erosion Control and supplemental seeding will be included in the lump sum price bid for "Erosion Control".

Temporary silt fence shall be in accordance with Section 1605 of the Standard Specifications.

SPECIAL SEDIMENT CONTROL FENCE:**Description**

This work consists of the construction, maintenance, and removal of Special Sediment Control Fence. Place special sediment control fence as shown on the plans or as directed.

Materials**(A) Posts**

Steel posts shall be at least 5 ft. in length, approximately 1 $\frac{3}{8}$ wide measured parallel to the fence, and have a minimum weight of 1.25 lb/ft of length. The post shall be equipped with an anchor plate having a minimum area of 14.0 square inches, and shall have a means of retaining wire in the desired position without displacement.

(B) $\frac{1}{4}$ " Hardware Cloth

Hardware cloth shall have $\frac{1}{4}$ " openings constructed from #24 gauge wire. Install hardware cloth in accordance with Standard Drawing No. 1606.01.

(C) Sediment Control Stone

Sediment Control Stone shall meet the requirements of Section 1005 of the *Standard Specifications*. Install stone in accordance with Standard Drawing No. 1606.01.

Construction Methods

The Contractor shall maintain the special sediment control fence until the project is accepted or until the fence is removed, and shall remove and dispose of silt accumulations at the fence when so directed in accordance with the requirements of Section 1630 of the Standard Specifications.

Measurement and Payment

No separate measurement shall be made for Special Sediment Control Fence, as the cost of this work shall be included in the lump sum price bid for "Erosion Control".

GRAVEL CONSTRUCTION ENTRANCE:**Description**

This work consists of furnishing, installing, and maintaining and removing any and all material required for the construction of a *Gravel Construction Entrance*.

Materials

Refer to Division 10

Item	Section
Filter Fabric for Drainage, Type 2	1056
Stone for Erosion Control, Class A	1042

Construction Methods

The Contractor shall install a Gravel Construction Entrance in accordance with Standard Drawing No. 1607.01 and at locations as directed.

Measurement and Payment

No separate measurement shall be made for Gravel Construction Entrance, as the cost for this work shall be included in the lump sum price bid for "Erosion Control".