

**SEEDING AND MULCHING:**

5-15-07

**(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**

50#	Tall Fescue
10#	Centipede
25#	Bermudagrass (hulled)
500#	Fertilizer
4000#	Limestone

**September 1 - February 28**

50#	Tall Fescue
10#	Centipede
35#	Bermudagrass (unhulled)
500#	Fertilizer
4000#	Limestone

Waste and Borrow Locations**March 1 - August 31**

75#	Tall Fescue
25#	Bermudagrass (hulled)
500#	Fertilizer
4000#	Limestone

**September 1 - February 28**

75#	Tall Fescue
35#	Bermudagrass (unhulled)
500#	Fertilizer
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.

**SPECIAL STILLING BASIN:****Description**

This work consists of furnishing, placing, and removing special stilling basin(s) as directed.

**Materials**

Refer to Division 10

<b>Item</b>	<b>Section</b>
Filter Fabric for Drainage, Type 2	1056
Sediment Control Stone	1005

The special stilling basin shall be a water permeable fabric bag that traps sand, silt, and fines as sediment-laden water is pumped into it.

The special stilling basin shall be a bag constructed to a minimum size of 10' x 15' made from a nonwoven fabric. It shall have a sewn-in 8" (maximum) spout for receiving pump discharge. The bag seams shall be sewn with a double needle machine using a high strength thread. The seams shall have a minimum wide width strength as follows:

<b>Test Method</b>	<b>Minimum Specifications</b>
ASTM D-4884	60 lb/in

The fabric used to construct the bag shall be stabilized to provide resistance to ultra-violet degradation and meet the following specifications for flow rates, strength, and permeability:

<b>Property</b>	<b>Test Method</b>	<b>Minimum Specifications</b>
Weight	ASTM D-3776	8.0 oz/yd
Grab tensile	ASTM D-4632	200.0 lb
Puncture	ASTM D-4833	130.0 lb
Flow rate	ASTM D-4491	80.0 gal/min/sf
Permittivity	ASTM D-4491	1.2 l/sec
UV Resistance	ASTM D-4355	70.0%

**Construction Methods**

The Contractor shall install the special stilling basin(s), filter fabric, and stone in accordance with Standard Drawing No. 1630.06 and at locations as directed.

The special stilling basin(s) shall be constructed such that it is portable and can be used adjacent to each drilled pier. The special stilling basin(s) shall be placed so the incoming water flows into and through the bag without causing erosion. The neck or spout of the

bag shall be tied off tightly to stop the water from flowing out of the bag without going through the walls.

The special stilling basin(s) shall be replaced and disposed of when it is  $\frac{3}{4}$  full of sediment or when it is impractical for the bag to filter the sediment out at a reasonable flow rate. Prior approval from the Engineer shall be received before removal and replacement.

The Contractor shall be responsible for providing a sufficient quantity of bags to contain silt from pumped effluent during construction of drilled piers.

### **Measurement and Payment**

*Special Stilling Basin* will be measured and paid as the actual number of bags used during drilled pier construction as specified and accepted.

*Filter Fabric for Drainage* will be measured and paid for in accordance with Article 876-4 of the *Standard Specifications*.

*Sediment Control Stone* will be measured and paid for in accordance with Article 1610-4 of the *Standard Specifications*.

Such price and payment will be full compensation for all work covered by this section, including but not limited to, furnishing all materials, placing and maintaining the special stilling basin(s), and removal and disposal of silt accumulations and bag.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Special Stilling Basin	Each