***Biotic Soil Amendments***

*DESIGN CONSIDERATIONS*

*Objectives*

In lieu of compost or other soil conditioner a spray on soil amendment/ Biotic Soil Amendment (BSA) may be applied.

Soil Amendment

Soil amendment shall be a pre-packaged, commercially available, hydraulically applied blend of natural fibers, mycorrhiza, growth stimulants, and other biologically active material designed to improve seed germination and vegetation establishment.

Soil amendment shall be manufactured from thermally and mechanically processed straw and flexible flax fibers, sphagnum peat moss and other biological additives at the following volumes:

1. 40% by volume of thermally and mechanically processed straw and flexible flax fibers

2. 57% by volume of professional grade sphagnum peat moss

3. 1.26% by volume of other biological additives including trace minerals, sugars, starches, proteins, folic acid, vitamin A, triaconnatol and triacontanol growth stimulants/regulators

4. <1% by volume of fungal mycorrhiza and plant beneficial bacteria

Tackifier shall be a pre-packaged commercially available powder specifically designed and manufactured for use with the specified hydraulically applied soil amendment. Tackifier shall be formulated from long chain and cross-linking molecules in conjunction with a hydrocolloid vegetable gum.

Soil amendment shall be hydraulically applied to all seeded areas within 48 hours of the

seeding operation at a rate of 3,500 pounds per acre. Soil amendment shall provide a continuous and uniform cover a minimum of 0.20 inches in depth over seeded areas. Thin areas or areas of bare soil shall not be allowed and will be supplemental soil amendment applied by the Contractor at no additional cost to the Contracting Agency.

Tackifier shall be mixed with and hydraulically applied as part of the soil amendment at a rate of 70 pounds per acre.

Soil amendment and tackifier shall be mixed and applied per the manufacturer’s recommendations.

**Measurement**

Section XXXX is supplemented with the following:

Soil Amendment will be measured per XXXX by the ground slope of the completed application.

**Payment**

Section XXXX is supplemented with the following: “Soil Amendment”, per XXXX.

The unit Contract price per XXXX for “Soil Amendment” shall be full pay to perform the Work as specified including any pre-application weed control, loading, hauling, screening, stockpiling, and hydraulic placement and spreading of Soil Amendment and associated tackifier.