

## 156 – ROADSIDE IMPROVEMENT EQUIPMENT

### SECTION 156

#### ROADSIDE IMPROVEMENT EQUIPMENT

##### 156.1 SEEDING EQUIPMENT

**a. Seeding Drills.** Use drills for roadside seeding and fertilizing in good working order so that the rate of seed and fertilizer is applied at the rates shown in the Contract Documents. Two or more separate seed compartments may be necessary for seeding certain projects. Provide seed compartments capable of the accuracy needed to obtain the seeding rates shown for the various grasses, wildflowers and legumes listed in the Contract Documents. Use a drill that can apply commercial grass seed and wildflower seed, or a drill with attachments that would allow the application of fertilizer, grass seeds and wildflower seeds at the rate and depth specified in the Contract Documents. The drill must be approved by the Engineer. The Engineer will approve the width of the drill on the basis of the area to be seeded. The space of seed-tubes, disks and boots shall be a maximum of 8 inches. Provide drills that accurately control the depth of seeding and fertilizer placement to a maximum depth of ½ inch. Construct the seed and fertilizer compartments with partitions to prevent the material sliding to one side of the drill while operating on steep slopes.

If a separate cultipacker is not used, use a seed drill with press wheels.

**b. Hydraulic Slurry Seeding, Fertilization and Mulching.** Provide machines used for hydraulic seeding operations with continuous agitation of the slurry mixture during seeding operations. Equip with pressure to force seed and mulch material to the right-of-way line of most typical highway sections. The minimum tank capacity is 750 gallons.

##### 156.2 MULCHING EQUIPMENT

**a. Mulch Puncher.** Use mulch punchers so weight may be added or hydraulic force from the tractor to push the puncher into the ground. Use notched discs with a minimum diameter of 16 inches for punching purposes. Provide discs that are flat or uncupped like notched coulters commonly used on moldboard plows. Place discs a maximum of 8 inches apart along the axle or shaft. Use shaft or axle sections of disks with a maximum of 8 feet in length.

##### 156.3 OTHER ROADSIDE IMPROVEMENT EQUIPMENT

**a. Cultipacker.** Use cultipackers constructed so that sections are a maximum of 6 feet in length. Pull a maximum of 3 sections behind a tractor or drill at any time

**b. Root “Sprigger”.** Acceptable spriggers are constructed so the root planting mechanism is driven by the tractor’s power take-off to maintain a constant planting of roots on steep slopes. The machine shall be capable of planting roots in a continuous unbroken pattern. The Engineer will check the machine on a slab or hard ground with the power take-off running to determine if enough roots are being fed through the machine.