

1 **270-2 MATERIALS**

2 Refer to Division 10.

Item

Geotextile for Soil Stabilization, Type 4

Section

1056

3 **270-3 CONSTRUCTION METHODS**

4 Grubbing may not be required in areas where geotextile for soil stabilization will be used.
5 Minimize the use of heavy equipment in these areas to limit rutting. Cut trees flush with the
6 ground surface and place geotextiles on relatively undisturbed ground as directed.

7 Do not leave geotextiles exposed for more than 7 days before covering geotextiles with
8 backfill material except geotextiles for erosion control devices. Place geotextiles on surfaces
9 free of obstructions, debris and soft pockets. Install geotextiles with the long dimension
10 parallel to the roadway centerline. Overlap adjacent geotextiles at least 18" unless otherwise
11 directed to sew seams together. Overlap geotextiles in the direction that material will be
12 placed to prevent lifting the edge of the top geotextile.

13 Place geotextiles in slight tension free of kinks, folds, wrinkles or creases. Use wire staples or
14 anchor pins, as needed, to hold geotextiles in place until covered. Provide backfill material in
15 accordance with the contract. Do not operate equipment on geotextiles until covered with
16 material as directed. Do not use vibratory compaction equipment on initial lifts of backfill.

17 **270-4 MEASUREMENT AND PAYMENT**

18 *Geotextile for Soil Stabilization* will be measured and paid in square yards. Geotextiles will
19 be measured along the ground surface as the square yards of exposed geotextiles before
20 placing backfill material. No measurement will be made for overlapping geotextiles or
21 sewing seams. The contract unit price for *Geotextile for Soil Stabilization* will be full
22 compensation for providing, transporting and placing geotextiles, wire staples and anchor pins
23 and sewing geotextiles.

24 Payment will be made under:

Pay Item

Geotextile for Soil Stabilization

Pay Unit

Square Yard

25

SECTION 275 ROCK PLATING

26

27 **275-1 DESCRIPTION**

28 Construct rock plating in accordance with the contract. Rock plating is required to stabilize
29 slopes at locations shown in the plans and as directed.

30 **275-2 MATERIALS**

31 Refer to Division 10.

Item

Geotextile for Rock Plating, Type 2

Plain Rip Rap

Select Material, Class IV

Subsurface Drainage Materials

Section

1056

1042

1016

1044

32 Use Class IV select material (standard size No. ABC) over rip rap and Class 1, 2 or B rip rap
33 unless required otherwise in the plans. Provide Type 2 geotextiles for filtration geotextiles.
34 Provide subdrain coarse aggregate (standard size No. 78M) and PVC subdrain pipes, fittings
35 and outlet pipes for subsurface drainage materials.

Section 275

1 **275-3 CONSTRUCTION METHODS**

2 Construct embankments in accordance with the contract. Compact fill slopes to the
3 satisfaction of the Engineer with tracked equipment or other approved methods. Undercut as
4 necessary to install rock plating on cut slope faces or embed rock plating below the ground
5 line.

6 Do not leave filtration geotextiles exposed for more than 7 days before covering with rip rap
7 or ABC. Unroll geotextiles down slopes, i.e., perpendicular to the roadway centerline. Bury
8 filtration geotextiles at top of slopes and embed geotextiles at toe of slopes as shown in the
9 plans. Filtration geotextiles should be continuous down slopes. If geotextile roll length is too
10 short, overlap ends of geotextile rolls at least 5 ft with the upper geotextile over the lower as
11 shown in the plans. Filtration geotextiles may be discontinuous down slopes in the direction
12 perpendicular to the roadway centerline only once per roll width.

13 Overlap adjacent filtration geotextiles along slopes at least 18" as shown in the plans. Place
14 geotextiles in slight tension free of kinks, folds, wrinkles or creases. Use wire staples or
15 anchor pins as needed to hold filtration geotextiles in place until covered. Do not displace or
16 damage filtration geotextiles while placing rip rap. When shown in the plans, install
17 6" diameter perforated subdrain pipes and No. 78M stone at toe of slopes in accordance with
18 Article 815-3.

19 Place rip rap such that the smaller stones are uniformly distributed throughout rip rap. Install
20 rip rap with mechanical methods and if necessary, by hand to form a well graded, dense, neat
21 layer of rip rap.

22 When shown in the plans, place filtration geotextiles and 18" of ABC over rip rap at top of
23 slopes. Compact ABC to 92% of AASHTO T 180 as modified by the Department or to the
24 highest density that can be reasonably obtained.

25 **275-4 MEASUREMENT AND PAYMENT**

26 *Rock Plating* will be measured and paid in square yards. Rock plating will be measured along
27 the slope faces of rock plated slopes as the square yards of exposed rip rap and if applicable,
28 ABC. No measurement will be made for portions of rock plating embedded below the ground
29 line. The contract unit price for *Rock Plating* will be full compensation for providing,
30 transporting and placing filtration geotextiles, wire staples, anchor pins, rip rap and ABC.
31 The contract unit price for *Rock Plating* will be full compensation for undercut excavation to
32 install rock plating on cut slope faces and embed rock plating below the ground line.

33 *Subsurface Drainage* will be measured and paid in accordance with Section 815.

34 Payment will be made under:

Pay Item	Pay Unit
Rock Plating	Square Yard