SECTION 646 - GEOCOMPOSITE DRAIN

646.01 Description. This section describes furnishing and placing geocomposite drains on slopes, and walls not exceeding 8 feet in height.

646.02 Materials.

Structure Backfill Material 703.20
Perforated Plastic Pipe 706.12
Geotextiles for Geocomposite Drain Applications 716.05

Nonperforated pipes shall conform to perforated plastic pipe requirements, except for perforation provisions.

646.03 Construction.

(A) Site Preparation. Before placing geocomposite material, clear ground site of sharp objects, cobbles, boulders and vegetation. Excavate rock protruding above surfaces to neat lines. Backfill voids and over-excavations with structure backfill material A, as required to construct neat lines.

(B) Installation.

(1) When placing geocomposite drain on slopes, unroll and place geocomposite material on prepared surface with permeable fabric face against subgrade. Dragging geocomposite material on ground will not be allowed.

(2) When placing geocomposite drain on walls, provide mastic or other material acceptable by Engineer. Use hand operated compaction equipment no closer than 1 foot away from geocomposite drain material.

(3) At geocomposite drain joints, peel back fabric from core material and provide at least 3-inch fabric overlap. At ends of drainage panel, provide 3-inch lap over edge of core material. To connect perforated pipe, peel back fabric from core, sufficient distance to encircle perforated pipe between fabric and core materials with at least 3-inch fabric lap over core material.

(4) Place perforated plastic pipe with perforations down. Join pipe sections securely with appropriate couplings or bands, or both.
(5) Limit geocomposite drain material exposure to elements, between laydown and cover, to no more than five days.

(C) Damage Repair. Remove and replace torn, punctured, or damaged geocomposite material, or combination thereof, with undamaged geocomposite material. Make repair maintaining minimum overlap requirements.

646.04 Measurement. Geocomposite drain and perforated plastic pipe will be paid on a lump sum basis. Measurement for payment will not apply.

646.05 Payment. Engineer will pay for accepted quantities of geocomposite drain and perforated plastic pipe on a contract lump sum basis. Payment will be full compensation for work prescribed in this section and contract documents.

Engineer will pay for each of the following pay items when included in proposal schedule:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geocomposite Drain</td>
<td>Lump Sum</td>
</tr>
<tr>
<td>__-Inch Perforated Plastic Pipe</td>
<td>Lump Sum</td>
</tr>
</tbody>
</table>

END OF SECTION 646