SECTION 985
GEOTEXTILE FABRICS

985-1 Fabric.

985-1.1 General: Geotextiles shall be woven or nonwoven fabrics that will allow the passage of water. Geotextiles shall be packaged in a protective covering sufficient to protect it from sunlight, dirt, and other debris during shipment and storage, upon which the manufacturer's name, product name, style number, roll dimensions and LOT numbers are clearly labeled.

985-1.2 Application: The applications of geotextile fabrics are divided into the following three main classes:

1. Drainage- under all rubble riprap, including cyclopean stone and under gabions; wrapped around drains, pipe joints, and edge-drains; filter behind walls, etc.
2. Erosion Control- silt fence, staked silt barrier, plastic erosion mat.
3. Stabilization- separator between embankment and soft subsoil, reinforcement and pipe bedding.

985-2 Physical Requirements.

Unless restricted in the plans or specifications, the geotextile fabric shall be a woven or non woven fabric consisting of long-chain polymeric filaments or yarns such as polypropylene, polyethylene, polyester, polyamides or polyvinylidene chloride formed into a stable network such that the filaments or yarns retain their relative position to each other. The base plastic shall contain stabilizers and/or inhibitors to make the filaments resistant to deterioration due to ultra-violet light (except for subsurface and stabilization classification), heat exposure and potential chemically damaging environment. The fabric shall be free of any treatment which may significantly alter its physical properties. The edges of the fabric shall be selvaged or otherwise finished to prevent the outer yarn from pulling away from the fabric. The fabric shall conform to the physical requirements on Design Standards, Index No. 199 according to its application.

985-3 Overlaps and Seams.

Overlaps shall be as specified in the plans, specifications, or Design Standards for each particular application. To reduce overlaps, the geotextile fabric may be sewn together. Seams of the fabric shall be sewn with thread meeting the chemical requirements and minimum seam strength requirements given for the fabric and application as shown on Design Standards, Index No. 199.

985-4 Certification.

Furnish two certified copies of a test report from the manufacturer certifying that the geotextile to be incorporated into the completed project meets the requirements of this Specification and the Design Standards, Index No. 199. The certified test reports shall be attested to by a person having legal authority to bind the manufacturing company. Also, furnish two (4 by 8 inch) samples of the geotextile for product identification. The manufacturer shall maintain test records as required by this Specification. These records shall be made available to the Department upon request.