PART 1 - GENERAL

1.1 SECTION INCLUDES

.1 Materials and installation of polymeric geotextiles purpose of which is to:
.1 Separate and prevent mixing of granular materials of different grading.

1.2 RELATED SECTIONS

.1 Section 01 33 00 - Submittal Procedures.

1.3 MEASUREMENT PROCEDURES

.1 Measure geotextiles in square meters of surface covered by material. No allowance will be made for seams and overlaps.

1.4 REFERENCES

.1 American Society for Testing and Materials International, (ASTM)
.1 ASTM D4632. Grab Tensile strength test.
.2 ASTM D 4751, Standard Test Method for Determining Apparent Opening Size of a Geotextile.

.2 Canadian General Standards Board (CGSB)
.1 CAN/CGSB-4.2 No. 11.2-[M89(April 1997)], Textile Test Methods - Bursting Strength - Ball Burst Test (Extension of September 1989).
.2 CAN/CGSB-148.1, Methods of Testing Geotextiles and Complete Geomembranes.
.1 No.7.3-[92], Methods of Testing Geotextiles and Geomembranes - Grab Tensile Test for Geotextiles.

1.5 SUBMITTALS

.1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.

.2 Submit to a Departmental Representative following samples at least 4 weeks prior

to beginning Work.
.1 Minimum length of 2 m of roll width of geotextile.
.2 Minimum of 1 m seam with at least 300 mm of geotextile on both sides of seam.

1.6 DELIVERY, STORAGE AND HANDLING

.1 During delivery and storage, protect geotextiles from direct sunlight, ultraviolet rays, excessive heat, mud, dirt, dust, debris and rodents.

PART 2 - PRODUCTS

2.1 MATERIAL

.1 Geotextile: Non-Woven synthetic fiber fabric, supplied in rolls.
.1 Width: 3.5 m minimum.
.2 Length: 150 m minimum.

.2 Physical properties:
.1 Mass per unit area: to CAN/CGSB-148.1, No.2, minimum 237 g/m².

.3 Hydraulic properties:
.1 Apparent opening size (AOS): to ASTM D 475], 0.3 mm.
.1 Permittivity: to ASTM D 4491, 2.2 pers.

.4 Securing pins and washers: to CAN/CSA-G40.21, Grade 300W, hot-dipped galvanized with minimum zinc coating of 600 g/m² to CAN/CSA G164.

PART 3 - EXECUTION

3.1 INSTALLATION

.1 Place geotextile material by unrolling onto graded surface in orientation, manner and locations indicated and retain in

position with pins of weights.

.2 Place geotextile material smooth and free of tension stress, folds, wrinkles and creases.

.3 Place geotextile material on sloping surfaces in one continuous length from toe of slope to upper extent of geotextile.

.4 Overlap each successive strip of geotextile 600 mm over previously laid strip.

.5 Pin successive strips of geotextile with securing pins at 600 mm interval at mid-point of lap.

.6 Protect installed geotextile material from displacement, damage or deterioration before, during and after placement of material layers.

.7 After installation, cover with overlying layer within 4 h of placement.

.8 Replace damaged or deteriorated geotextile to approval of a Departmental Representative.

.9 Place and compact soil layers in accordance with Section 31 23 33.01 - Excavating Trenching and Backfilling.

3.2 PROTECTION

.1 Vehicular traffic not permitted directly on geotextile.

END OF SECTION