

PSPC

R.098430.002

Northside Landfill B Erosion Control

Argentia, NL

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PART 1 - GENERAL

- 1.1 SECTION INCLUDES .1 Materials and installation of composite geogrid:
- .1 Separate and prevent mixing of granular materials of different grading and prevent settling of rock into loose sediment.
 - .2 Act as hydraulic filters permitting passage of water while retaining soil strength of granular structure.
- 1.2 RELATED WORK .1 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- 1.3 REFERENCES .1 American Society for Testing and Materials (ASTM)
- .1 ASTM D4491-99a(2004)e1, Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
 - .2 ASTM D4595-05, Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method.
 - .3 ASTM D4716-04, Standard Test Method for Determining the (In-Plane) Flow Rate Per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head.
 - .4 ASTM D4751-04, Standard Test Method for Determining Apparent Opening Size of a Geotextile.
- .2 Canadian General Standards Board (CGSB)
- .1 CAN/CGSB-4.2-M88, Textile Test Methods.
 - .2 CAN/CGSB-148.1, Methods of Testing Geotextiles and Geomembranes.
 - .1 No.2-M85, Mass per Unit Area.
 - .2 No.3-M85, Thickness of Geotextiles.
 - .3 No.7.3-92, Grab Tensile Test for Geotextiles.

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.4 No.6.1-93, Bursting Strength of Geotextiles Under No Compressive Load.

- .3 Canadian Standards Association (CSA)
- .1 CAN/CSA-G40.20-04/G40.21-04, General Requirements for Rolled or Welded Structural Quality Steel.
 - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.

1.4 SAMPLES

- .1 Submit samples as directed by the Departmental Representative.
- .2 Submit to Departmental Representative the following samples at least 2 weeks prior to commencing work.
- .1 Minimum length of 1 m of roll width of geotextile.

1.5 MILL CERTIFICATES

- .1 Submit to Departmental Representative a copy of mill test data and certificate at least 2 weeks prior to start of work.

1.6 DELIVERY AND STORAGE

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

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper,

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plastic, polystyrene, corrugated cardboard, and packaging material, in appropriate on-site bins, for recycling in accordance with Waste Management Plan.

- .4 Fold up metal banding, flatten and place in designated area for recycling.

1.7 MEASUREMENT FOR PAYMENT

- .1 All material supplied and installed under this section will be included in the lump sum portion of the project.

PART 2 - PRODUCTS

2.1 MATERIAL

- .1 Polypropylene geogrid, as noted on the drawings, to be LP30X, bi-axial geogrid to ASTM D4595 or equivalent.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Place geogrid as noted on the drawings.
- .2 Place material by unrolling onto graded surface in orientation, manner and locations indicated and retain in position to approval of Departmental Representative.
- .3 Place material smooth and free of tension stress, folds, wrinkles and creases.
- .4 Place material to manufacturer's written instructions.
- .5 Overlap each successive strip of material minimum of 600 mm over previously laid

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strip, or as otherwise recommended by manufacturer.

- .6 Protect installed material from displacement, damage or deterioration before, during and after placement of rock material layers.
- .7 Replace damaged or deteriorated material to approval of Departmental Representative.

3.2 PROTECTION

- .1 Vehicular traffic not permitted directly on geotextile.