

PART 1 - GENERAL

<u>1.1 SECTION INCLUDES</u>	.1	Materials and installation of polymeric geogrids used as slope protection/turf reinforcement.
<u>1.2 MEASUREMENT AND PAYMENT</u>	.1	Measure geogrid in square metres of area covered by material. No allowance will be made for seams and overlaps. .1 Slope protection material
<u>1.3 REFERENCES</u>	.1	American Society for Testing and Materials International, (ASTM) .1 ASTM D6524-11, Standard Test Method for Measuring the Resiliency of Turf Reinforcement Mats .2 ASTM D6525-06, Standard Test Method for Measuring Nominal Thickness of Permanent Rolled Erosion Control Products .3 ASTM D6566-06, Standard Test Method for Measuring mass Per Unit Area of Turf Reinforcement Mats .4 ASTM D6567-06, Standard Test method for Measuring the Light Penetration of Turf Reinforcement Mat .5 ASTM D6575-06, Standard Test Method for Determining Stiffness of Geosynthetics Used as Turf Reinforcement Mats .6 ASTM D6818-09, Standard Test Method for Ultimate Tensile Properties of Turf Reinforcement Mats
<u>1.4 SUBMITTALS</u>	.1	Submit samples in accordance with Section 01 33 00.
<u>1.5 DELIVERY, STORAGE AND HANDLING</u>	.1	During delivery and storage, protect geogrids from direct sunlight, ultraviolet rays, excessive heat, mud, dirt, dust, debris and rodents.
<u>1.6 WASTE MANAGEMENT AND</u>	.1	Separate waste materials for reuse and recycling in accordance with Section 01 74 20.

DISPOSAL

- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, 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.

PART 2 - PRODUCTS

2.1 MATERIAL

- .1 Turf reinforcement mat, capable of providing stability for sloped surfaces.
- .2 Geogrid: Open grid polymer having biaxial orientation, free of striations, roughness, pinholes, blisters, undispersed raw materials or any sign of contamination by foreign matter.
 - .1 Roll width: 2.0m minimum
 - .2 Roll length: 42.2m minimum
- .3 Geogrid physical and mechanical properties:
 - .1 Peak tensile strength to ASM D-6818:
 - .1 5.8x4.3 kN/m
 - .2 Tensile elongation to ASTM D-6818:
 - .1 50%
 - .3 Resiliency to ASTM D-6524:
 - .1 90%
 - .4 Flexibility to ASTM D-6575:
 - .1 30000 mg-cm
 - .5 Mass per unit area to ASTM D-6566:
 - .1 340 g/m²
 - .6 Thickness to ASTM D-6525:
 - .1 10.1 mm
 - .7 Light penetration to ASTM D-6567:
 - .1 20%
 - .8 Color: green or tan.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Place geogrid material by unrolling onto graded surface in manner and locations indicated and retain in

position in accordance with manufacturer's written recommendations.

- .2 Place geogrid on (sloping) surfaces in one continuous length as shown on the drawings.
- .3 Join successive strips of geogrid as recommended by manufacturer.
- .4 Protect geogrid from displacement, damage or deterioration.
- .5 Replace damaged or deteriorated geogrid to approval of Departmental Representative.

3.2 CLEANING

- .1 Remove construction debris from Project site and dispose of debris in an environmentally responsible and legal manner.

3.3 PROTECTION

- .1 Vehicular traffic not permitted directly on geogrid.