

SECTION 201b – GEOGRID

1. GENERAL

This item shall consist of furnishing and installation of geogrid reinforcement as may be necessary for soft subgrade areas that in the opinion of the Engineer cannot be adequately compacted. This work shall also include hauling, furnishing, placing, and compacting rock in conjunction with the geogrid installation. The geogrid material and installation shall be in conformance with the latest version of Section 308 of the Kansas Department of Transportation Standard Specifications or as stated herein.

Geogrid reinforcement shall be BX 1200 by Tensar Corporation or approved equal as further specified in KDOT specification 1710. The geogrid reinforcement shall be a regular grid structure formed by biaxially drawing a continuous sheet of select polypropylene material and shall have aperture geometry and rib and junction cross-sections sufficient to permit significant mechanical interlock with the material being reinforced. The geogrid shall have high flexural rigidity and high tensile modulus in relation to the material being reinforced and shall also have high continuity of tensile strength through all ribs and junctions of the grid structure. The geogrid shall maintain its reinforcement and interlock capabilities under repeated dynamic loads while in service and shall also be resistant to ultraviolet degradation, to damage under normal construction practices and to all forms of biological or chemical degradation normally encountered in the material being reinforced.

At locations approved by the Engineer, Geogrid reinforcement shall be installed directly on the subgrade and shall be installed in accordance with the manufacturer's recommendations. The crushed rock shall be placed and graded so that the material is uniform and segregation is minimal. The crushed rock base shall be compacted with a smooth steel roller until material is dense and to grade.

2. MEASUREMENT AND PAYMENT

Payment shall be made at the contract square yard (SY) bid price for "Geogrid". Payment includes compensation for all labor, equipment and materials necessary to provide a finished product as intended by the Contract Documents.