

SECTION 02522

CRUSHED ROCK WITH GEOGRID

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. This item shall consist of hauling, furnishing, placing, and compacting rock at locations shown on the plan and in conformance with the typical sections as detailed. The work shall also include the furnishing and installation of geogrid reinforcement.

PART 2 PRODUCTS

1.2 MATERIAL

- A. **Crushed Rock:** Crushed Rock shall comply with the quality requirements of aggregate for aggregate base construction as specified in Section 1104 of the Kansas Department of Transportation 2007 Standard Specifications. Adsorption shall not exceed 4%. Gradation of crushed rock shall be as follows:

Sieve	1-1/2"	3/4"	#4	#40	#200
% Retained	-	20-60	50-80	80-94	90-98

- B. **Crushed Concrete:** At the Contractor's option, crushed concrete may be used in lieu of crushed rock. The adsorption requirements do not apply. All other quality requirements and gradation shall be the same as that specified for crushed rock.
- C. **Geogrid Reinforcement:** Geogrid reinforcement shall be BX 1100 by Tensar Corporation or approved equal. 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.

PART 3 EXECUTION

3.1 DELIVERY AND SPREADING

- A. Geogrid reinforcement shall be installed directly on the subgrade and shall be installed in accordance with the manufacturer's recommendations.
- B. The crushed rock base 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.