Location
Minneapolis, MN

Engineer
Civil: Stantec
Geotech: Braun Intertec

Contractor
Veit, USA

Installation Date
August 2019

Quantity
60,000 SY TX5
120,000 SY TX7

Project Details

Poor contaminated subgrade soils with a CBR of 1.5% and high axle loading of 200 kips required three layers of TriAx® Geogrid to stabilize the subgrade and ensure performance of the pavement section. The Tensar design enabled a 5 inch reduction in both aggregate and HMA. The use of TriAx® Geogrid also allowed for the use of a locally sourced lower cost aggregate.

Tensar

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Additionally, the aggregate CBR stiffness requirement was reduced from 80% to 50% resulting in more than a 50% reduction in the aggregate cost.

Tensar®

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Tensar Geogrid Mechanically Stabilized Soil Layer

Area with Fully loaded container handlers.

10" Flexible pavement

11"

7"

7"

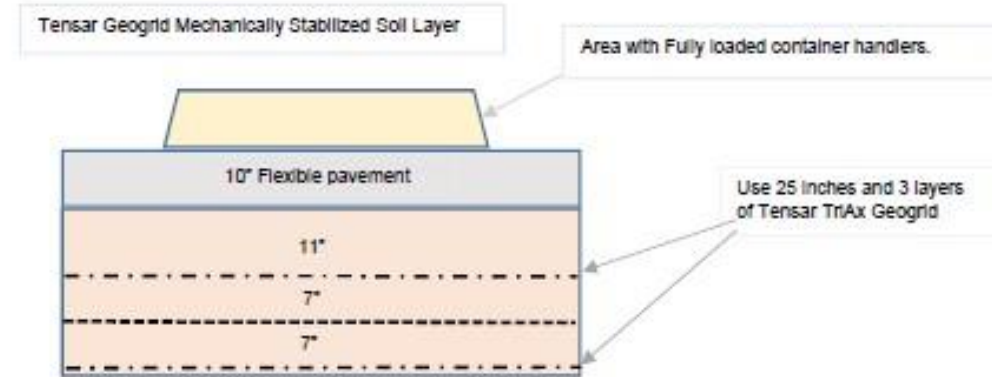Use 25 inches and 3 layers of Tensar TriAx Geogrid

Figure 1: Schematic of Tensar Geogrid Mechanically Stabilized Soil Platform - For illustration purposes only - Not to scale - Not for construction.