The Gore Road, Caledon, ON

Year of Construction: 2024
Location: The Gore Road, Caledon
Product Installed: InterAx NX850-FG (FilterGrid)
System: Subgrade Improvement

CASE STUDY

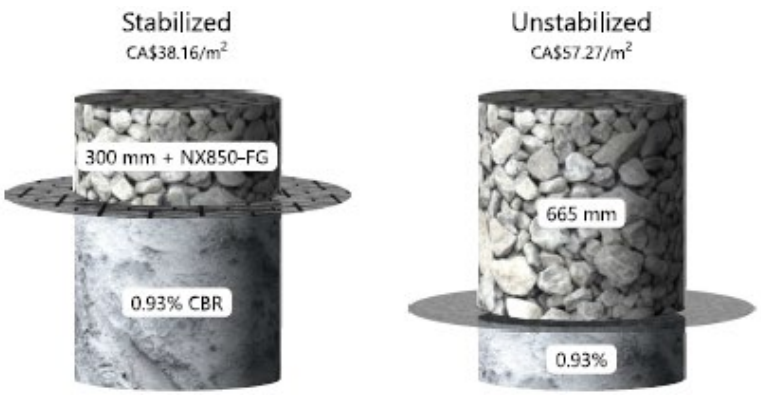
CHALLENGE

In geotechnical engineering, the Standard Penetration Test (SPT) “N” value is an indicator of soil density and strength. An “N” value of 4 (CBR 0.93%) is relatively low, indicating that the subgrade soils are quite soft and have low bearing capacity. This can present challenges for construction, soils may be prone to settlement and have limited load-bearing capabilities. The end-user and consultant required a safe and reliable design based on the project requirements: soft soil conditions and traffic requirements.

SOLUTION

Geosynthetics is one of the most cost-effective methods to enhance subgrade strength, minimize settlement, and create a stable foundation for the pavement structure. We recommend using Tensar InterAx NX850 geogrid with Terrafix 270R non-woven geotextile, or a composite Tensar InterAx NX850-FG (FilterGrid) proposed pavement section incorporating geogrid and geotextile materials.

SPECIAL NOTE



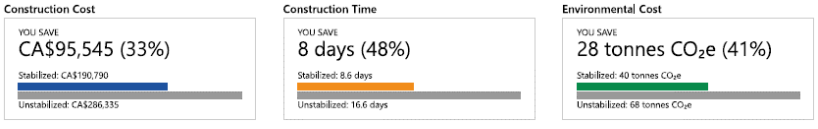


Image Source: tensarplus.com