

Delivering long-term performance

Connection road from Hung Hoa town to Di Nau commune

Phu Tho Province, Vietnam

CLIENT'S CHALLENGE

A road project connecting Hung Hoa town to Di Nau commune faced challenges due to poor soil conditions. The problematic ground layer ranged from 2.5 to 4.8 metres thick. The project needed a solution for controlling differential settlement and stability of the road embankment. Traditional methods were unsuitable - prefabricated vertical drains (PVDs) with surcharge preloading would take too long, whilst deep soil mixing would be technically difficult and expensive.

TENSAR SOLUTION

Tensar implemented the TensarTech Stratum Cellular Foundation Mattress system as an innovative solution. The design featured a robust foundation mattress constructed with HX geogrid base and uniaxial geogrid walls, creating aggregate-filled compartments. This foundation controlled uneven settlement, reduced the rate of long-term settlement, enhanced the bearing capacity, and improved embankment stability. The Stratum system enabled quick construction with the resulting granular mattress improving drainage characteristics of the embankment construction.

B E N E F I T S

- **Controlled** uneven settlement
- **Enhanced** bearing capacity
- **Quick construction** with drainage functionality

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PROJECT DETAILS

Constructed in
March 2024

Consultant
Minh Long construction and consultant Co. Ltd.

Products
Tensar H-Series geogrid, Uniaxial geogrid



Installation of the TensarTech Stratum Cellular Foundation Mattress for ground improvement solution

Stratum/Ground Improvement | No. 525