Go-kart racetrack at Sepang International Circuit

Solid Foundation for Racetrack Construction

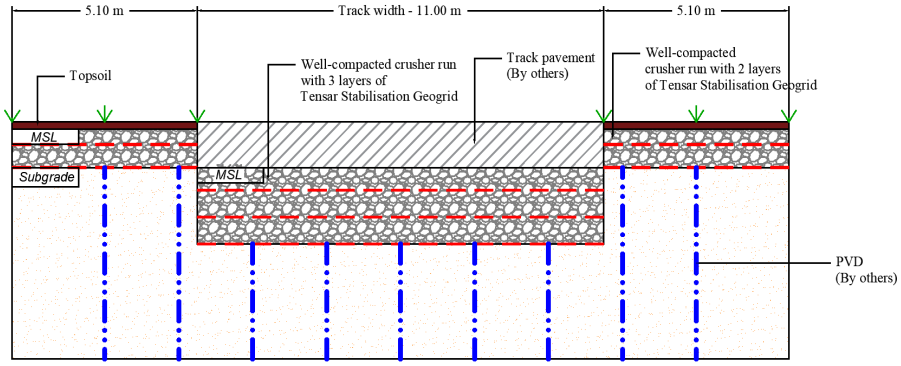
Sepang, Selangor, Malaysia

CLIENT'S CHALLENGE

The track was to be constructed on low strength soils which presented issues such low bearing capacity and potential for differential settlement, which on a racetrack could cause safety issues. The project required a rapid yet effective ground improvement method that could address these two main issues.

TENSAR SOLUTION

The track was treated by prefabricated vertical drains (PVD) to address the long-term settlement. Tensar proposed a Mechanically Stabilised Layer (MSL) with three layers of multiaxial geogrid to stabilise the racetrack's foundation. The MSL is placed above the existing soft soil, aiming to mitigate differential settlement and enhance the track's bearing capacity. This layer also served as a temporary road during road construction. The MSL scheme extended to the green buffer area, allowing consistency between the track and buffer area, increasing safety in case a vehicle leaves the track.



Constructed section of the paved road

BENEFITS

- **Mitigates** differential settlement
- **Bearing capacity** improvement
- **Eliminates the needs** for deep ground improvement

Tensar
CMC

PROJECT DETAILS

Application
Paved Road | No. 563

Constructed in
2023

Client
Sepang International Circuit Sdn Bhd

Project Consultant
CMKS Consultancy Sdn Bhd

Project Contractor
Nippon Road (M) Sdn Bhd

Product
Multiaxial geogrid

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