



CASE STUDY

Bow Street Station, Wales

THE PROJECT

Construction of a brand new £8M Transport for Wales railway station.

THE PROBLEM

Design of a specialist geotechnical element, complying with network Rail standards, crucial to the performance of the new station platform.

THE SOLUTION

Fast deployment of experienced geotechnical expertise & rigorous analysis which kept the construction programme on track.

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Specialist Geotechnical Design

During the construction of the brand new £8M Transport for Wales Bow Street railway station in Ceredigion near Aberystwyth, the civil engineering contractor needed specialist geotechnical design expertise. The poor ground under the new station platform footprint required improvement with vibro stone columns, but to transfer the loads from the pre-cast concrete platform units a geocomposite reinforced granular transfer layer was needed. Whilst the overall design recognised the need for the reinforced transfer layer the specialist detailing of this was left as a 'contractor design element'. This is why the main contractor approached Remedy Geotechnics to design this crucial element. Because of their geotechnical design expertise and thorough knowledge of Network Rail design protocols, Remedy were able to react quickly to complete the design and drawings and respond to Network Rail queries along the way.

Due to the critical time nature of the project (the work being undertaken in pre-planned blockades of the rail line) Remedy's design had to accommodate several design scenarios to suit a range of available geocomposite products. The final designs utilised either a Huesker Stabilenka 120 geotextile or a Tensar Basetex product.

The geocomposite reinforced transfer layer design was validated by an independent Category 2 check prior to construction commencing.

This project demonstrates how Remedy Geotechnics' proactive approach, geotechnical expertise and knowledge of Network Rail design protocols can rapidly be deployed to keep project programmes on track.

Contact Remedy Geotechnics - we'll give you an answer every time.

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