



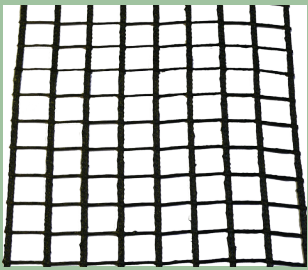
Case Study

Stratagrid



Location:

Rakes Lane-Rail Bridge
Doncaster
South Yorkshire



Contractor:

Buckingham Group
Contracting



Engineer:

BWB Consulting Limited



CONSULTANCY | ENVIRONMENT
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In order to increase traffic movements for bulk earthwork activities on the scheme, it was necessary to widen the approach roads either side of the existing railway bridge.

To avoid encroaching on adjacent land owned by a 3rd party and incurring significant costs, Geosynthetics were approached for their technical expertise relating to geogrid reinforced earth structures.

The batter of the slope needed to be increased beyond the natural repose of the proposed soils. It was determined that a reinforced earth solution represented the most economical and cost effective solution.

When designing this structure several factors had to be taken into consideration, including the heavy loads that the wall would be subject to after installation.

Geosynthetics suggested using Stratagrid (its Uniaxial geogrid) as it met the high tensile strength required whilst also providing a long term solution.

To ensure speed of installation and that a constant slope angle was achieved, the face of the slope was constructed using



sacrificial steel framework which was bent to the desired angle. Immediately behind the framework Geosynthetics TRM 450 Erosion Control matting was used to retain soils and promote vegetation growth.

Geosynthetics Limited were able to provide the client with expert knowledge and engineering assistance combined with high quality products at competitive prices.

This solution demonstrates the level of service Geosynthetics can provide from the original design stages through to completion with full support throughout the process.

“We were very happy with the solution provided by Geosynthetics Limited in respect of technical assistance, quality of product and speed of delivery”


Laurence Bonner - Senior Project Manager



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Landlok
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Geomembrane
Impermeable Membrane



Golpla
Grass & Gravel Paving System



DuoDrain
Composite Drainage Product




RockBox
Gabion Mattresses



2 in 1
Landscaping Fabric



Gas Membrane
Radon, CO2, Methane,
Hydrocarbon Control



Alert
Contamination Indicator



Turfmesh
Grass Reinforcement




Trinter
Erosion Control Mat




Tenax
Soil Reinforcement Solutions



GeoGlas
Asphalt Reinforcement



Formpave
Permeable Paving System




Flexitex
Textile Shuttering



Bentotex GCL
Geosynthetic Clay Liner




Cellweb
Tree Root Protection



Fibertex
Non Woven Geotextile



Telegrid
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T-Block
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RootBlock
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