MHLANGA RIVER BRIDGE

N2 FREEWAY, DURBAN, KZN, SOUTH AFRICA

Reinforced Soil Walls and Slope Reinforcement

Problem

The gravel road which ran alongside the bridge abutments, was constructed to cater for the needs of the local community and for the transport of sugar cane.

Sugar cane transportation was severely hampered, each time the fast flowing river flooded, causing the road to wash away.

Solution

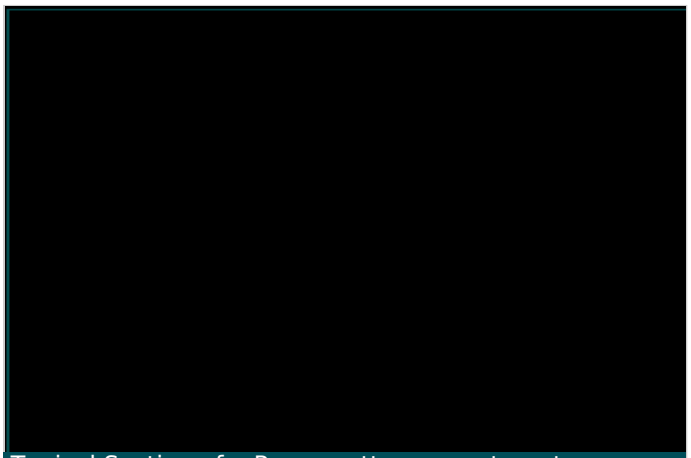
Galvanised Reno mattresses measuring 6x2x0,3m, with a mesh wire diameter of 2,7mm, were used to line the river bed.

A Gabion cut-off wall was constructed on the upstream end of the mattresses to prevent any movement or upliftment of the mattresses. The mattresses were then covered with topsoil.

A concrete road was thereafter constructed.

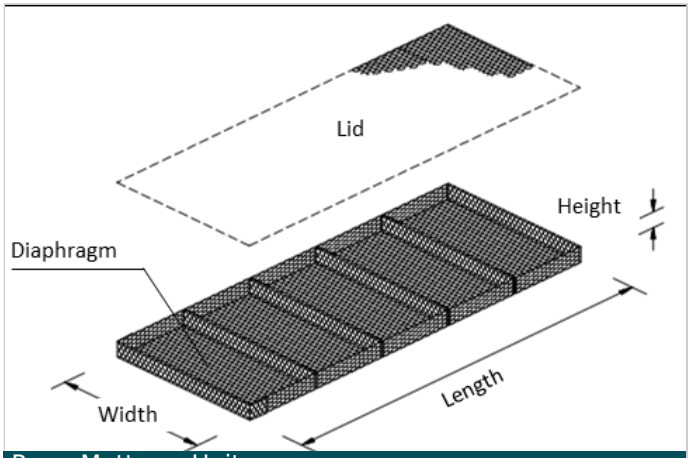
Client: MHLANGA RIVER BRIDGE
Designer / Consultant: CLIENT
Contractor: ERBACON
Products used (Qty.)
- Reno Mattress Unknown

Date of construction: 08/1993 - 09/1993



Typical Section of a Reno mattress revetment

After construction



Reno Mattress Unit

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Engineering a Better Solution