

CENTRAL PARK HENDERSON, AUCKLAND

REINFORCED SOIL SLOPE

Product: Green Terramesh®, Tensar RE500

Problem

To provide additional car parking for this commercial development the client was looking for a level platform over a sloping site requiring the construction of an embankment up to 4m in height. To maximise the area for parking the clients requirement was for the slopes of the fill embankment to be steep as practicable but at the same time be capable of been vegetated.

Solution

Maccaferri were approached to assist in developing a solution that met both the clients requirements and the technical design criteria for the site. The solution proposed by Maccaferri was the Green Terramesh® (GTM) system which combines Green Terramesh® facing units and Tensar geogrid to provide a durable and stable structure that can be greened up to keep within the clients criteria. The design assistance offered by Maccaferri included a full analysis of the internal and global stability of the structure.

John Fillamore Contracting were appointed to carry out the installation of the Green Terramesh® system. The simplicity of the system meant that a team of three workers were required to install the Green Terramesh® facing, lay the geogrid, place and compact the fill material. Green Terramesh® units are prefabricated from a single panel of wire mesh with an additional welded steel mesh at the facing and triangular supporting bracket that support the front face to form a 70 degree face angle. The units when unfolded and placed into position form a constant 0.6m vertical lift resulting in a neat front face finish.

Starting in May and working through some very average weather conditions the contractor was still able to achieve good progress and stayed within the construction programme, to complete the structure in June.

The structure has subsequently been hydro-seeded to meet the requirement of providing an environmentally friendly result.

Client:

IMAGE HOLDINGS

Main contractor:

JOHN FILLAMORE CONTRACTING

Engineer:

BROWN & THOMPSON

Products used:

GREEN TERRAMESH®, TENSAR RE500

Date of construction:

MAY 2012



Upclose construction GTM



Near completion of GTM structure



Greening of GTM structure

Maccaferri NZ Ltd

14 Goodman Place, PO Box 12536, Penrose, Auckland, New Zealand
T: (+64) 9 6436495 F: (+64) 9 634 6492, FREEPHONE 0800 60 60 20
E: sales@maccaferri.co.nz

www.maccaferri.co.nz

Quality System AS/NZS ISO 9001:2008.

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