

PARAMOUNT INDUSTRIAL ESTATE DEER PARK, VICTORIA, AUSTRALIA

ENVIRONMENTAL/GEOTECHNICAL ENGINEERING/FREE STANDING GABIONS **Product:** Maccaferri Galmac Coated Gabions

Problem

The design objective of the developments landscape architect was to create an individual conspicuous landmark free standing tower that was vertical and over 7.0m high. Seven smaller 2m high free standing structures were also required beside the larger feature. The structures would be used to identify the entries of the proposed industrial site and to keep in line with the theme, a rock faced structure using local basaltic rock was specified.

Solution

Originally the obelisks were designed using a reinforced concrete core and rigid weld mesh panel facades. GroundTech Geo Supplies and Services Pty Ltd suggested a cost effective alternative making use of an internal steel frame core and Maccaferri double twist woven Galmac Gabions as a façade. The design eliminated the concrete structure, negated the need for a variety of specialised contractors and resulted in a 60% cost saving and significant reduced building time. When further stages were designed, the alternative woven mesh Gabion structure was adopted for construction.

Maccaferri woven mesh Gabions have been predominantly used for civil type applications but are being well accepted into urban / landscape design projects. Highly experienced Gabion specialist contractors have revolutionised Gabion installation and Gabion retaining walls, free standing structures, weirs and noise attenuation walls are being commonly designed and built in urban design type environments.



The Steel Framework For The Main Structure Date: Jul 2006

Client name:

PARAMOUNT INDUSTRIAL ESTATE

Contractor name:

GROUNDTECH GEO SUPPLIES & SERVICES PTY LTD

Landscape Architect:

CDA DESIGN GROUP PTY LTD

Product used:

GALMAC COATED GABIONS

Construction date:

JULY 2006 & JANUARY 2008



Gabion Installation Around The Framework Date: Jul 2006



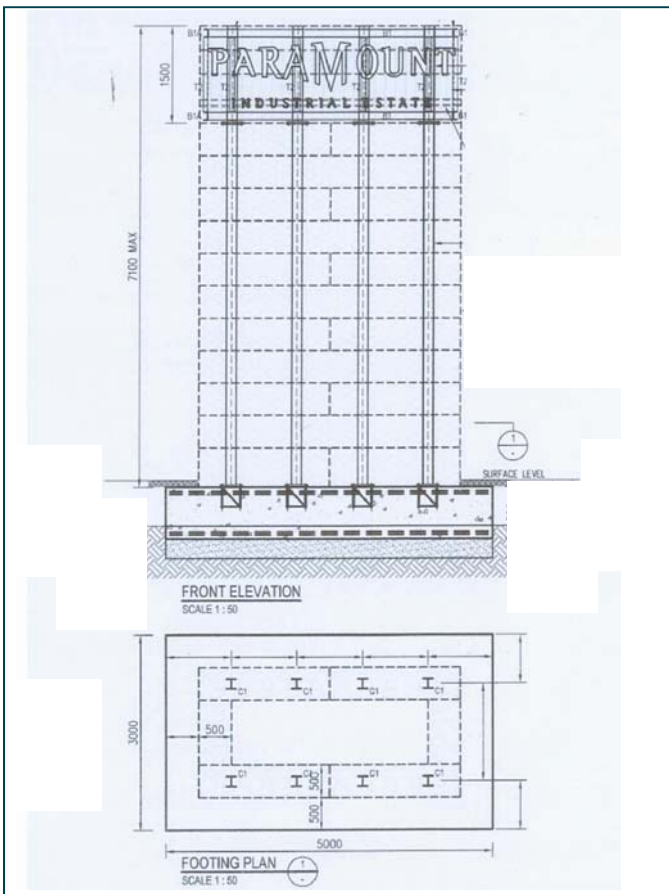
Large Feature After Construction

Date: Oct 2006



Smaller Features

Date: Oct 2007



Project Typical Detail



Large Feature Completed

Date: July 2007

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