



Case

STUDY

STRATAGRID, LANDLOK & EKOTEX

Premier Inn

Retaining Structure



MARKET SECTOR:
Commercial



LOCATION:
Clovelly Road, Bideford
Devon, EX39 3HN



CONSULTANT:
Simpson Associates



CONTRACTOR:
Carter Lauren

The

BACKGROUND

In order to achieve the correct levels for this hotel development, it was necessary to undertake a significant cut and fill operation with changes in levels of up to 5m.

This earthworks operation facilitated the entire site being on a single level with a ramp for the access road around the perimeter of the scheme.

Our Client's

REQUIREMENTS

A sustainable solution for a reinforced soil retaining structure

The designers had initially envisaged a vertical retaining structure in order to achieve the proposed levels.

To keep the construction economical it was desirable to utilise site won soils wherever possible.



Our Value Engineered SOLUTION

Due to the site layout, Geosynthetics Ltd engineers were able to propose a reinforced soil slope.

The properties of the site won soils were such that they were deemed unsuitable for use within the reinforced soil zone, however they were suitable for use in the retained soil zone.

The reinforced soil zone was constructed using a selected granular material 'Class 6I/6J reinforced' with Stratagrid SG geogrids to achieve a 45 degree structure. At the face of the slope a Landlok erosion control mat was placed to retain a layer of organic soil to promote vegetation.

The Stratagrid reinforced soil solution provided an aesthetically pleasing flexible structure that would blend into it's surrounding environment. In addition this type of solution has distinct economic advantages over traditional hard solutions such as reinforced concrete structures.

" The system was easy to install and the service provided from Geosynthetics Limited was very helpful "

PHIL CLARKE
Director
SEL Clarke Limited

