

## Case

# STUDY

## STRATAGRID

Heads of Valley  
Working Platform



**MARKET SECTOR:**  
Commercial



**LOCATION:**  
A465 Heads of Valley  
Saleyard Bridge Crossing  
Near Clydach, South Wales



**CONSULTANT:**  
Costain



**MERCHANT:**  
Costain

## The BACKGROUND

As part of the earthworks programme on section 2 of the A465 Heads of the valley project, it was necessary to construct a temporary reinforced earth embankment for a river crossing for heavy construction plant.

The application was further complicated by ecological issues with both bats and otters being identified in the immediate vicinity.

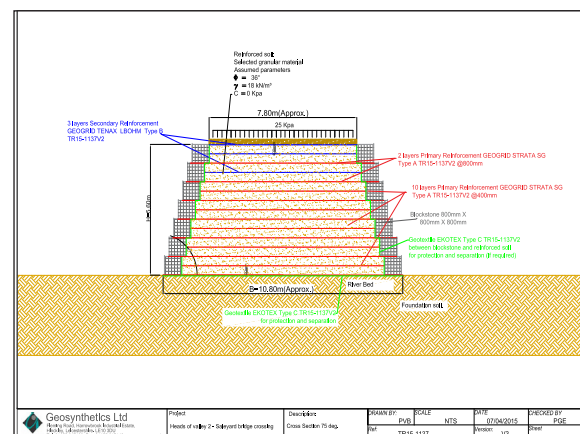


## Our Client's REQUIREMENTS

Temporary reinforced Earth embankment for a river crossing for heavy construction plant machinery.

### Technical Requirements:

- 5.6m high embankment
- 7.8m wide surface
- 5m road
- 1.2m walkway
- Capable of withstanding heavy construction plant



## Our Value Engineered **SOLUTION**

**Working off a granular starter layer a 5.6m high embankment was constructed using selected granular material and Stratagrid Uniaxial geogrids.**

The face of the structure was achieved by placing a combination of precast concrete units and quarried stone blocks, both were connected to the geogrid using a frictional connection. Behind the facing a geotextile was placed for protection and separation. The finishing width was approx 7.8m providing a 5m road width and 1.2m walkway either side. Geosynthetics were able to provide an appropriate cost effective solution in a very short space of time which utilised products available for immediate delivery.



**“Geosynthetics provided a speedy and professional service resulting in a cost effective solution for our temporary works.”**

**PAUL MORGAN**  
Section 3 Manager  
A465

