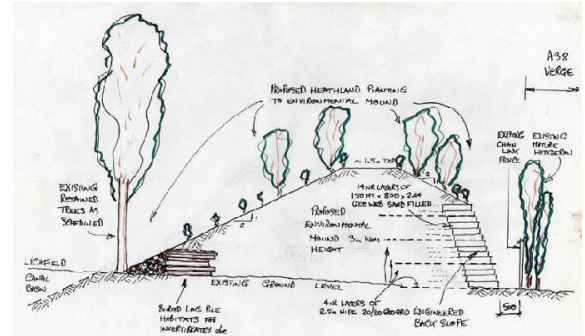


**PROJECT DESCRIPTION  
REINFORCED EARTH CONSTRUCTION  
NOISE BARRIER**

**Project:** Lichfield Canal  
**Location:** Lichfield, UK  
**Year:** 2012

Design of noise barrier considering geogrids and geocells



**PROJECT DESCRIPTION**

The Lichfield Canal covers a distance of more than 7 miles from Ogley Junction to Huddlesford Junction and was built between 1794 and 1797. The Lichfield & Hatherton Canals Restoration Trust was founded in 1988 to reinstate the historic canals for the benefit of the community. The 100.000 \$ project involved the construction of a mound to reduce noise from the nearby motorway A 31.



**PROJECT FACTS**

- Construction of Lichfield Canal through Danford Park, located between the A 51 in the west and A 31 in the south
- Initial woodland management and pipeline diversion required to enable the canal to be excavated during the summer months
- Excavation of about 27.000 m<sup>3</sup> material
- Local material stabilised by geocells was used for construction of the noise bund



**OUR SERVICE**

- Geotechnical Consultancy throughout the project
- Interpretation of field test data
- Determination of soil mechanical design parameters
- Design of Geoweb® gravity wall using local fill material
- Internal and external stability analysis according to British Standard BS 8006
- Design report and recommendations for construction of Geoweb® wall
- Method statement