

PROJECT: REINFORCED EMBANKMENT
SERVICE: CIVIL ENGINEERING



Reinforced embankment

Central long filled section

Reinforced embankment

Project Summary

Client : Urban Splash, Lakeshore.
 Value : £117,000
 Role: Civil Engineering Design & Build Main Contractor

The client has a requirement to install a reinforced structural embankment over a temporary earth anchored embankment supporting a public road adjacent to a major residential development.

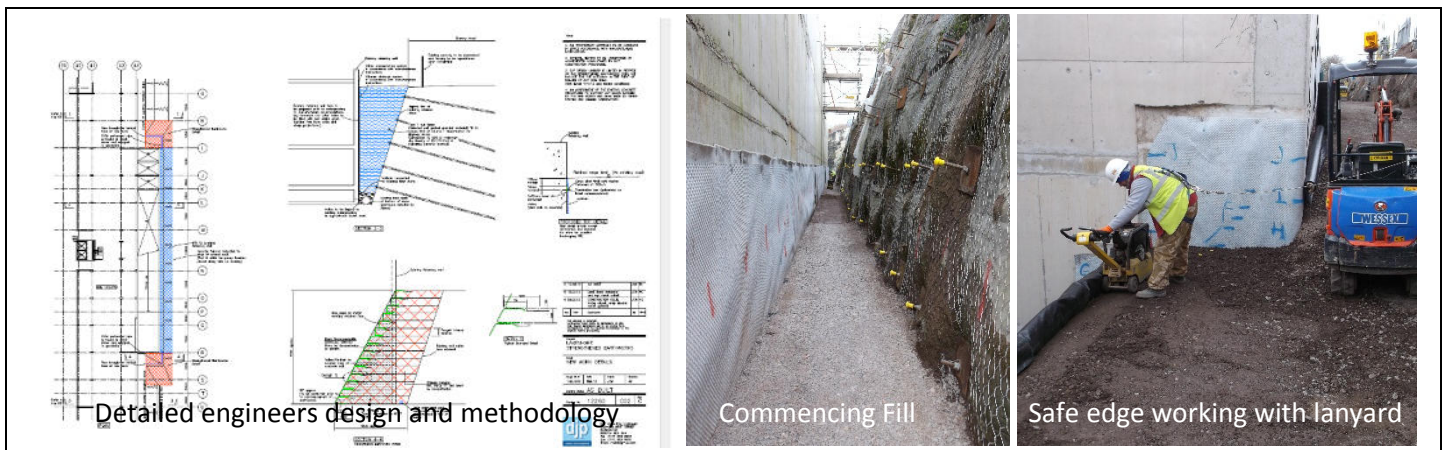
The road serves an industrial business area and a major retail park so traffic and maintaining access was a major consideration.

Tercon worked with our chosen consulting engineers to produce a cost effective and achievable design. Tercon also developed an installation process which required careful operation but achieved a safe and well controlled construction method.

The construction was achieved with no disruption to the retail, commercial or residential occupiers.

Key Elements of work

- Over 2600m² of geotextile wrapping and geogrid reinforcement was used in the layered raking embankment.
- Over 2,640 tonnes of imported aggregates were methodically placed and densely compacted. A consistent regime of density testing ensured the engineers design requirements were met.
- 500m² of bentonite mat waterproofing and protection board placed against the concrete car-park wall.
- Specially fabricated steel formers made to achieve compaction to the required steeply battered edge of the retaining embankment.
- Careful planning of deliveries, phasing of the works and traffic management to ensure zero disruption to the stakeholder business and residential occupiers.



Detailed engineers design and methodology

Commencing Fill

Safe edge working with lanyard