



## Case

# STUDY

### TTE

Hitches Lane  
HGV Turning Area



#### MARKET SECTOR:

Commercial



#### LOCATION:

Hitches Lane, Fleet  
Hampshire, GU51 5JA



#### CONTRACTOR:

MGJV



#### CONSULTANT:

Mott MacDonald Ltd

## The BACKGROUND

**Thames Water began a £7.2m project to build a new pumping station aimed at reducing the risk of flooding in the Grove Farm, Hitches Lane area of Fleet, Hampshire.**

Once completed, the new pumping station will protect existing properties from potential sewer flooding.

## Our Client's REQUIREMENTS

A sustainable solution for a reinforced HGV turning area.

**Thames Water specifically wanted the site to be green and sympathetic to the surrounding area but able to withstand maintenance tankers.**

MGJV contacted Geosynthetics Ltd enquiring about an environmentally sound product capable of withstanding D400 highway loading.





## Our Value Engineered SOLUTION

**Our engineers were able to provide a technical recommendation based on TTE® to satisfy the traffic loading requirements. A site visit was conducted to finalise the details and discuss the installation methods and sub-base requirements.**

TTE®'s construction enables a range of installation patterns to be used. Each pattern has particular strengths depending on the use of the area and direction of vehicle movements. MGJV laid the TTE® in a 'Stretcher Bond' pattern for the site entrance and a 'Herringbone Bond' for the turning area.

TTE® was able to cover all loading requirements and because it does not require any curing time compared to concrete, the site was still accessible while final commissioning took place. The TTE® was seeded and quickly began to fill with grass. When complete 64% of the surface will be grass helping to blend it in and look less obtrusive.

