

## Gateway Community College

The Project for Thurrock Council consisted of the construction of a new Secondary School to co-locate two existing schools with capacity for up to 1800 pupils. The site selected for the new College is an area (approximately 18 Ha) of former marshland to the north of Tilbury.

Stirling Maynard were engaged as part of the overall Design Team to assist both in the planning and detailed design phases of the project.

The flood risk assessment for the project had to overcome several difficult challenges, as the site is both within the fluvial flood plain and a flood storage area forming protection to Tilbury.

The new College is founded on piled foundations and ground improvement techniques have been specified to limit differential settlements. The superstructure of the buildings comprises steel frame, pre-cast concrete floors, structural masonry and glulam timber features.



**Client**

Thurrock Council

**Structural Engineers**

Stirling Maynard

**Architect & Lead Consultant**

Lyster Grillet and Harding

**Mechanical and Electrical  
Engineer**

The Barn Partnership

**Quantity Surveyor**

Ian Kendall Associates

**Contractor**

Kier Eastern

**Total Project Value**

£27 M



**Duties undertaken by Stirling Maynard included:**

- Civil and Structural Engineering advice to the multi-disciplined team during planning and costing stage
- Flood Risk Assessment
- Structural design of overall structure
- Civil design for the overall scheme including:
  - Providing advice regarding the internal road & car park layout
  - Section 278 Highway Works
  - Below ground foul drainage
  - Below ground surface water drainage incorporating SUDS system
  - Road & pavement construction
  - Detailing of the sports pitches and pitch drainage systems

