



Structural Alterations

St Nicholas Priory School, Great Yarmouth

Sector: Education & Temporary Works
Client: Paul Robinson Partnership (Permanent Works)
J W Munnings Limited (Temporary Works)
Value: £200,000
Completion: August 2015

Technicus Consulting was appointed by Paul Robinson Partnership to provide structural design and consultancy services for structural alterations to St Nicholas Priory School. This project centred on the client's requirement to remove a heavily loaded 7m long ground floor partition between two classrooms. The wall to be removed provided support to the concrete first floor, a 330mm thick masonry first floor partition wall, and roof structure over.

The School's strict specification for minimal beam section sizes, and no internal columns presented a serious challenge due to the loads carried on the wall to be removed. Our structural solution comprised a pair of structural steel picture frames, supported off 3 no. steel base beams bedded down onto the original partition wall foundation. This solution minimised the size of the top beams, and provided the open plan classbase space required by the school.

Due to the magnitude of the loading carried by the partition wall to be removed, Technicus Consulting was appointed by J W Munnings Ltd (the appointed building contractor for the project) to provide temporary works structural design and consultancy services. This work involved design of a system of needle beams, props, braces and temporary foundations to allow safe and easy removal of the wall, erection of the new steelwork, and pinning-up, prior to release of the temporary works.

