Case study

Manufacturing Plant Extension

Initially working directly for Etex and subsequently for McLaughlin and Harvey, Alan Wood & Partners (AWP) was involved in this 60,000m2 new build facility from feasibility stage through to construction and close out commissioning.

AWP provided Civil and Structural technical support and specifications for all works. Initially providing support at feasibility and during the planning process in terms of Geotechnical ground investigations, Flood Risk and Drainage Impact Assessments. Then subsequently assisting Etex in developing solutions for the development of this complex brownfield site, formerly a Coal storage yard.

AWP's Geotechnical, Civil and Structural engineers worked hand in glove to develop innovative solutions for the development of the site, which included the use of remediation and re-use of on-site materials and use of geo-grid to reduce piling platforms, all to minimise removal of materials from across the site. In addition, due to the heavy loading requirements and the poor ground conditions, a suspended SFRC concrete slab was facilitated on piles. In addition to the above, our Civil engineers were challenged with accommodating the surface water drainage which was also in an ecologically sensitive location next to a site of Special Scientific Interest (SSI) being in close proximity to the River Avon.

The project was delivered in a BIM environment with all parties working in compatible modelling formats to facilitate the BIM delivery process. Model federation and clash checking was carried out using Solibri.

Alan Wood & Partners

Location:
Bristol

Client:
Etex/McLaughlin & Harvey

Architect:
Maber

Value:
£confidential

Civil Engineering | Structural Engineering | Geotechnical and Geoenvironmental

Engineer / Manage / Deliver /