

Cross Section

NATURAL VENTILATION, DAYLIGHTING & MATERIALS AUDIT

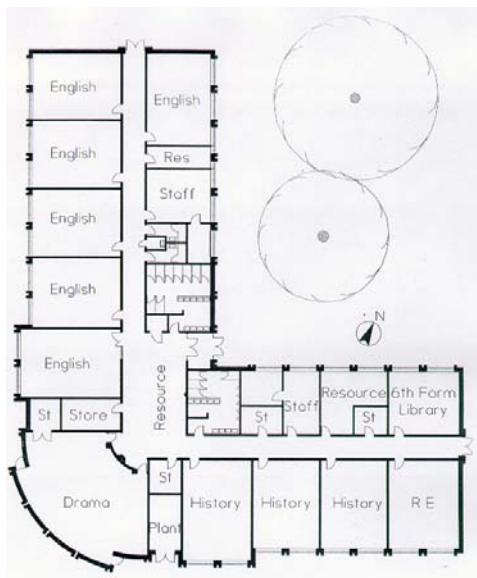
Humanities Building,
Wymondham College, Norfolk

Client:

The Board of Governors

Client Contact: Mr C Richardson,
Vice Principal

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Plan

This single storey building is L-shaped in plan, enclosing two mature trees. The accommodation is arranged on both sides of a central corridor. Like the nearby Design & Technology Centre, the building is almost wholly naturally lit and ventilated. The outer portion of the L-shape, facing South, contains deep plan classrooms which are cross ventilated. The inner portion, facing North, contains classrooms and ancillary accommodation which are shallow enough to be ventilated from one side only. The corridor is lit using polished steel 'light tubes' which carry daylight from roof level above.

The choice of construction materials has been influenced by a life cycle environmental impact audit carried out by the design team. Wall construction is to be of brick and fairfaced concrete block with recycled paper cavity insulation. The roof is constructed using standardised trussed timber rafters.

Consultants:

Environment: Norfolk Property Services
Natural Ventilation: Monodraught UK Ltd