



### Description

- ◆ New £19m Aviation Museum built to house the iconic first supersonic aeroplane on the site of the former Filton Airfield
- ◆ In addition, the Bristol Aero Collection features many historic aviation milestones
- ◆ Visitors will be able to visit the adjoining Learning Centre and share in the pride of the city of Bristol's aviation engineering and vision in avionics
- ◆ The project benefited from £4.7m grant from the National Lottery
- ◆ With conferencing facilities including a lecture theatre, three meeting rooms and studio space, providing flexible spaces for event hire.

### Involvement

- ◆ SDS were retained by Totus to undertake the design for the D&B contractor Kier of this high profile project. We provided full coordination of the mechanical and electrical building services
- ◆ Production of both single services and multi-service layouts by overlaying drawings to resolve service clashing
- ◆ Full thermal modeling was undertaken as a requirement of Part L regulations and overheating requirements. Plant room design and heat losses were also part of our remit
- ◆ Good relations were maintained with other professionals to successfully deliver this high profile project
- ◆ Calculate air movement strategy drawings and completed air movement calculations for agreement with infection control.

### Benefits Delivered

- ◆ SDS performed thermal analysis to size heating and cooling plant, ensuring vent openings were adequate for natural ventilation, and to provide Part L compliance
- ◆ Modelling of the hangar in Revit to aid visualization of how services were to be supported aesthetically
- ◆ Provided an environment in which unique aircraft, will be protected from the elements and elevate the status of Bristol for the tourist industry
- ◆ From the aircraft being grounded in 2003 the new Aviation Museum can be compared to the phoenix rising from the ashes.

*This prestigious project raises the reputation of all involved in securing a safe environment for this iconic supersonic airliner and other historic avoinic achievements for generations to come*