



Spalding Station Lincolnshire

End Client	Network Rail
Principal Contractor	AmcoGiffen
Design Value	£17,000
Design Period	2000 - 2000
Design Stage	GRIP 5 - 7 Design
Specialist Software	Deluxe Evo and Bentley Hevacomp
BIM Level	N/A

Our dedicated Electrical and Plant (E&P) team of designers worked on a series of upgrades to Spalding Station. The scope included installation of two new lifts, upgraded electricity supply to cater for new lighting and small power modifications associated with the electrical distribution at the station.

Project Objectives

AmcoGiffen's multi-disciplinary in-house design team evaluated existing configurations at Spalding Station to provide a step free access scheme.

New passenger lifts were designed to be next to the existing footbridge for easy access. During the work, it was proposed to upgrade the existing distribution network operator supply to facilitate the new lifts. In addition, new lighting was installed throughout the station and the with the civil engineering design also awarded to AmcoGiffen, providing continuity.



Design for all E&P works included:

- Station survey to assess the electrical distribution
- Lux level survey to ascertain the lighting levels on platform number two
- Removal of all redundant lighting cables and associated electrical distribution following completion of works
- A power monitoring report to ascertain the existing supply usage and spare capacity
- Provision of new modern 'F' rated energy efficient fittings to accommodate lighting levels
- Installation of new distribution supply following close liaison with Western Power Distribution

ACHIEVEMENTS

- Integrated mechanical, engineering and civil engineering design of proposed cable containment to avoid problems during construction
- Liaison with installer and suppliers for integration of bespoke solution to allow for simple combined installation.
- Minimised disruption to neighbours resulting from light pollution through lighting design and selection of luminaires

CHALLENGES

- Minimising glare to train drivers through the installation of anti-glare shields in directions of trains and minimisation of light spill onto the track with consideration of light distribution and orientation of luminaires
- A bespoke integrated cable management system resulting in significant interface with civils and telecoms disciplines

