



**Electrical, Telecoms
& Security Design
Consultancy**

CASE STUDY - RAIL

Project: Broxbourne Station Platform Extensions

Client: Greater Anglia Railways

Date: July 2022

Value: £5m



Project Overview:

Greater Anglia's New Trains Programme planned the introduction of new 244m long Class 720 rolling stock. Broxbourne station was on a route that the rolling stock would operate through and stop at. With the new trains being longer than the existing trains, interventions were required to lengthen platforms to accommodate the new train length..

Platforms were required to be extended at both the London end and Country end to allow safe passenger access to the new Train fleet.

ESD were appointed CRE for SISS Telecoms and E&P, and provided GRIP 4 and 5 designs, and support during construction of the following systems:

- Platform extension lighting
- Power distribution
- Earthing and Bonding designs in compliance with NR and BS7671.
- E&P input to Composite Bonding plans
- Platform CCTV
- Platform CIS
- Platform PA
- Platform EVC

ESD also worked with the Principal Designer, TGP, and supported the Contractor, GRAHAMS, throughout the project on the Enabling works packages for demolition and preservation of services on the platforms.

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