



**LB Foster**<sup>®</sup>

**CUSTOMER**

WPB Contractors Ltd /  
HS1

**SECTOR**

Rail

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**Ebbfleet  
International  
Station**  
ANPR CCTV



“The team at L.B. Foster Telecoms demonstrated a comprehensive understanding of the project’s scope and came up with a smart solution that made best use of existing infrastructure. That meant less disruption around the station and a more cost effective delivery.”

WPB Contractors

Ebbsfleet International Station is one of the main railway stations on the prestigious High Speed 1 Eurostar cross channel rail link from London St Pancras to Paris. The station is owned by HS1 Ltd, which also owns and operates the High Speed 1 railway including London St Pancras, Stratford International and Ashford International stations.

During busy periods passengers are often dropped off at the front of the station, despite the area being restricted to bus parking. As a result a number of near misses have been recorded between vehicles and pedestrians. In an attempt to dissuade drivers from using this unsafe area to set down passengers, it was agreed that Automatic Number Plate Recognition (ANPR) technology should be installed. The presence of ANPR is to act as a deterrent to drivers, whilst enabling follow-up fines and actions to be taken against persistent offenders.

## Requirement

L.B. Foster Telecoms was commissioned by WPB Contractors, on behalf of HS1, to design and install a new ANPR system to monitor vehicle activity in the busy area at the front of Ebbsfleet International Station. The project specification required the installation of two ANPR cameras located on the approach road to the station, with surveillance and identification equipment monitored from the adjacent National Car Parks (NCP) control room.

## Specification

- > GRIP 5 Telecoms detailed design
- > Inspection and test plans.
- > Compliance to HSQE plan
- > Producing SSOW and Task Briefs
- > Conducting daily HSQE and task briefings.
- > Project plans
- > Logistics
- > Install equipment and cables.
- > Testing for compliance to ITP and functional requirement specification.
- > Responsible for compliance and sign-off test results against test procedures, ITP and standards

## Our Solution

Having undertaken a detailed scoping evaluation of the project and on-site surveys, we identified the opportunity to install the two ANPR CCTV cameras on existing lighting columns on the approach road to the station. This provided the best view of approaching vehicles stopping in the station's restricted area to collect or alight passengers.

Our design solution incorporated the existing lighting columns to reduce the requirement for new civils bases and new cable ducting routes, as well as sourcing power for the cameras from the columns' electrical supply. This further reduced the requirement for new power supplies. Only structural and

cable/load calculations were required to confirm compliance for the additional loads being added to the existing assets.

We installed new coaxial cables cabled back to an existing fibre optic cabinet, which was connected to an existing spare Fibre Optic cable. This connected direct to the NCP control offices, sited in Car Park D.

Our solution made best use of existing structures, power supplies and a spare fibre optic cabinet, delivering significant cost reductions, as well as minimising disturbance and disruption at a very busy operational car park and international station.

## What they said

"The new ANPR system has already delivered significant improvements in driver behaviours, which was the overarching intention of the project. L.B. Foster Telecoms delivered on time and on budget, which is music to the ears of all customers."

HS1





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