



**LBFoster**<sup>®</sup>

CUSTOMER

Crossrail Limited /  
NG Bailey

SECTOR

Rail

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**Farringdon  
Crossrail**  
Station  
Communication  
Systems



“Our inspirational telecoms solutions will keep the world moving at one of the UK’s busiest railway stations, ensuring safer, more secure and easier journeys for all.”

**Farringdon station will be one of the busiest in the UK when it opens in 2018, connecting with Thameslink and the London Underground to provide links with outer London, the home counties, the City, Canary Wharf and three of London’s five airports.**

Millions of passengers passing through the new Farringdon station on the Elizabeth line will benefit from new, fully integrated station communications systems installed by L.B. Foster Telecoms.

Overarching design of C660 communications and control systems for the central section of the new Elizabeth line was awarded by the Crossrail project to Siemens PLC. Our engineers subsequently developed and fine-tuned designs specific to the operational requirements at Farringdon station, installing state-of-the-art station communications systems on behalf of contractor NG Bailey.

## Requirement

L.B. Foster Telecoms was contracted by NG Bailey on behalf of Siemens and Crossrail Limited to install, enable, test and commission the new C660 communications and SCADA works at Farringdon station.

Details of the required test criteria for the commissioning of the design elements included testing, as applicable:

- > New Asset Register
- > Materials Compliance Records (MCR)
- > Inspection and Test plans (ITP)
- > Mandatory Asset Information Data (MAID).

### Specification

- > Closed Circuit Television (CCTV)
- > EN54-16 compliant Public Address (PAVA)
- > Passenger Help points (PHP)
- > Telephone Systems
- > Master & Slave Clocks
- > Station Radio (PMR)
- > Fibre network (CDN)
- > SCADA network
- > Hardware (Racks)
- > Customer Interface systems (CIS)
- > DOO CCTV.

*“L.B Foster was instrumental in the success of the project, from our initial contact pre-contract with the senior management through to delivery, they have been completely open and involved in the day-to-day issues encountered on a project this size.”*

**Dave Rigney**  
**C660 Package Manager**  
**NG Bailey**



## Our solution

We worked closely with NG Bailey, Crossrail, Siemens and BAM, Ferrovial, Kier (BFK), the joint venture which built the two railway tunnels that run between the Royal Oak Portal and the new Farringdon Crossrail station. Our expert team drew on its experience of working on similar schemes in the rail sector to produce informed station communications solutions for the new Farringdon station.

We challenged the scope of the project, attending and generating discussions with all project contractors. Our innovative engineering solutions delivered right-first-time solutions.

Once commissioned, our station communications systems interfaced seamlessly with London Underground Limited's existing PAVA/CCTV and data communications equipment, and associated demarcation point junction boxes. This effected a smooth and timely handover to project engineers from Siemens.

"The team at L.B. Foster Telecoms was instrumental in the successful delivery of the project. They have been completely open and involved in the daily challenges encountered on a project of this size, from our initial contact pre-contract with the senior management all the way through to project completion."

Dave Rigney, NG Bailey



## What they said

"One of the refreshing aspects of working with L.B. Foster Telecoms' team was how they dealt with commercials. In projects of this scale it's really important to keep on top of them, but it can get to be onerous and impede delivery. The team at L.B. Foster took a proactive approach following the contract guidelines, whilst reviewing cost-risk alongside delivery. This really helped in getting delivery of firsts on the project and system wide firsts.

"The leadership team at L.B. Foster Telecoms that I liaised with daily was extremely open, very communicative and most of all, had a positive 'can do' attitude.

"We would have no hesitation in working and partnering LB Foster for future works."



"Our inspirational solutions are critical for the safe day-to-day operation of stations.