

Gatwick Airport Rail Station

Network Rail

ELR: VTB3

Mileage: 26m 47ch

Title:

Case Study



LB Foster TEW Plus

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Project	Gatwick Airport Rail Station Development
Project description	<p>The present Gatwick Airport Station experiences significant passenger congestion, both at platform level, and in the existing Station Concourse. Whilst a number of rail improvements to the station were delivered in 2013, the station still suffers from congestion, and passenger circulation is not optimal.</p> <p>This project seeks to provide additional station improvements, which will offer a much-improved passenger experience by relieving overcrowding, improving vertical circulation, and providing a more integrated Concourse, offering intuitive connection with airport terminals and/or onward travel.</p> <p>A new Station Concourse will be constructed above Platforms 5, 6 & 7, dedicated to passengers arriving at the Airport. The existing Station Concourse is to be modified to cater for passengers leaving the Airport.</p> <p>In addition, the existing Station Concourse circulation space is to be increased by a reduction in the Back of House accommodation area. Those areas which are to remain are to comprise retained Switch Rooms, the Coms Room, and the Cash Office, which is to be accessed via a protected corridor. The space will be allocated for use for future development.</p> <p>Due to the change of use of the Existing Back of House Accommodation, much of the original provisions are to be contained within a New back of House Accommodation Building, which is to be located adjacent to the existing Link Corridor to the Car Park, and the PTI Building.</p> <p>LB Foster were contracted to provide technical support throughout the GRIP3/4 Stages. Providing Survey Reports, Telecoms Strategy Documents and a Single Option Selection Design in addition to advice and consultation on the Telecoms systems and their integration with M&E, Civils and existing Station services.</p>
Clients	<p>Direct Client: NG Bailey End Client: Costain/Network Rail</p>
Overview of deliverables	<p>The Communications sub-systems and associated infrastructure are as follows:</p> <ul style="list-style-type: none"> • Closed Circuit Television (CCTV); • Public Awareness Monitor (PAM) • EN54-16 compliant Public Address (PAVA); • Access Control • Customer Information Systems • Flight Information Displays • Telephone & Data network; • CER Equipment Relocations; • Relocation of Station Operations Room • Interface with existing Data Communications Equipment and associated demarcation point junction boxes.

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TEW Plus' role	GRIP3/4 Telecoms Design
The overall deliverable was:	To provide the client with GRIP3 options for possible alterations/upgrades to the existing systems and a GRIP4 Single Option Telecoms Design for the selected telecoms options.
The key deliverables to meet this were:	<ul style="list-style-type: none"> • Security/CCTV Strategy Document • CIS/FIDS Strategy Document • Telecoms Strategy Document • Survey Reports • Acoustic Models • GRIP4 Telecoms Design • General Arrangement Drawings • Schematic Drawings • Cable Schedules • Bill of Materials
"What they said"	<p>NG Bailey – Richard Bell – Project Manager</p> <p><i>Gatwick Station Project is in the concept and option selection stages of the design process where NG Bailey and LB Foster have been working together to deliver the Mechanical, Electrical, Public Health and Telecoms (MEPT) packages. Engaging with LB Foster early has proved to have been to the great benefit to the MEPT deliverables, working together in one location has allowed us to produce a collaborative set of coordinated deliverables to satisfy the Client's Brief.</i></p> <p><i>Whilst we are still in the very early stage of this project, the ability to work together in a collaborative fashion has allowed us to work in an efficient manner to meet key project dates and our joined up approach has allowed us to add greater detail and cost certainty as the project looks to progress into the construction phase.</i></p>

Project	Gatwick Airport Rail Station Development	
Technical Competencies	Telecoms Designer Chris Kirkman See supporting CV	
	CRE Adrian Morton See supporting CV	
	Project Manager Lee Kempston See supporting CV	

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