

## PROJECT DETAILS

### Client

Network Rail

### Main Contractor

J Murphy and Sons Limited

### Sub Contractor

Bailey Rail

### Gate Manufacturer and

### Installers

Cubic

### Architect

Pell Frischmann

### Consultant

Pell Frischman / BPR

### ON TIME & WITHIN BUDGET

### Contract Start

October 2008.

### Completion Date

January 2009

## Waterloo Station Automatic Ticket Gate Line Project - June 2008

Waterloo is one of London's largest train stations totaling 20 platforms and is currently used by over 115 million people each year.

The station provides train services to the South and South West of England and has direct subway connections to both Waterloo Underground Station and Waterloo East serving London and the South East.

The installation of the automatic ticket gates will help to reduce the number of people who travel without tickets and will improve the aesthetics of the station environment by providing a view of the platform area from the concourse which has been concealed for years.

The project also involved the construction of new retail accommodation and gate line staff accommodation, as well as improved security across the station.

The gates – the largest suite of public transport ticket gates in Europe and reputedly the World.

The gate line is situated at the entrances to the mainline platforms and in the subway which connects the platforms with the London Underground station.

The installation of the ticket gates will help improve the overall passenger experience, in particular safety and movement around the station.

The ticket barrier project is estimated to take over 200,000 man hours of work and more than £20 million of investment.

AM Security Services Ltd remit

- Design, install & integrate additional 118 cameras to the system to cover new Gate lines and peak hour subway
- Refurbishment of the CCTV Equipment Room
- Maintain current CCTV system, CER and 502 camera views and footage including 31 day recording capabilities.
- Carry out required camera moves during the various phases of the project to ensure the requires coverage is maintained
- Installation of additional back up units at BTP remote monitoring site
- Update all system GUI Maps at all viewing suites and all remote monitoring sites

Work was also under way at Waterloo to bring platform 20 – part of the disused Waterloo International Terminal – into domestic passenger use by creating new openings in the wall next to platform 19 and this included additional CCTV Cameras and integration of the old Waterloo International Eurostar CCTV System.

- London Waterloo is the biggest and busiest main line termini in the UK transport network with 20+ train platforms.
- The largest Gate line project in Europe 171 automatic ticket barriers
- Waterloo station is currently used by over 115 million people each year
- A combination of E2 and Wide Aisle Gate
- Integration of 75 new fixed cameras to the existing CCTV system of 385 Cameras
- All the works to be completed at night during engineering hours, within a limited timeframe, zero downtime
- Waterloo Station has to remain fully operational



TECHNICAL SUPPORT

SAFETY COMPLIANCE

ZERO DOWNTIME

PROFESSIONALISM

PRACTICAL SOLUTIONS

QUALITY SERVICE

INDUSTRY STANDARDS

## Service Features and Benefits



London Waterloo is the biggest and busiest main line termini in the UK. It is owned by Network Rail.

AM Security Services was awarded the project for installation of the required CCTV cameras to monitor and control the safe operation of the new Automatic Ticket Gates (ATG) and new peak hour subway to ensure the safety and security of passengers and operating staff.

### Practice

Automated Ticket Barrier Gate line including:-

- Detailed survey & design
- Refurbishment of current CCTV Equipment Room to accommodate new hardware for the additional cameras
- 118 new fixed cameras installed
- Relocation of approximately 40 CCTV Cameras during the works to cover the building modifications and then later the relocation approximately 50 – 60 to cover the new proposed locations covering the new automatic gates
- New Automatic Ticket Gate Control Room /CCTV Viewing Suite

AM Security Services achieved the key challenge of maintaining the existing CCTV coverage and recordings, and minimizing disruption to the millions of rail passengers that pass through Waterloo each day. Whilst maintaining secure station accreditation, compliance with TRANSEC regulations and ensuring the continued safety and security of our passengers and staff.

During the works AM Security Services Ltd established a close working relationship with J Murphy and Sons Limited, Bailey Rail & Network Rail's gating Subcontractor 'Cubic' throughout to ensure seamless integration and a fully integrated detailed design with close liaison of all major players including the British Transport Police and South West Trains.

## System Design Standards

- GIRT7015 Automatic Ticket Gates at Stations
- GIRT7016 Interface between Station Platforms, Track and Trains
- NR/L2/TEL/30115 Specification for the Maintenance of CCTV Video Recorders
- NR/L2/TEL/30136 Testing Requirements – Security CCTV
- NR/L2/TEL/30111 Specification for the Maintenance of CCTV Monitoring Equipment
- NR/L2/TEL/3015 Technical Requirements for Security CCTV Systems on NR Infrastructure
- NR/L2/TEL/30110 Specification for the Maintenance of CCTV Cameras
- HOSDB Home Office Science and Development Branch CCTV System Technical Guidance

## OUTCOME

A fully integrated CCTV Security and Safety Camera System installed on the whole length of the automatic ticket gate line and peak hour subway compliant with Railway Group Standards, Network Rail Standards and Specification. Additionally to Home Office and TRANSEC CCTV guidelines and requirements

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