

CLIENT NAME

Network Rail – Wessex
Route Works Delivery

PROJECT NAME

Tangley - Level Crossing
Renewal

SECTOR

Railway Level Crossing

PROJECT VALUE

£49,000

DURATION

27 Hours

LOCATION

New Road, Chilworth,
Guildford, Surrey



TANGLEY - LEVEL CROSSING RENEWAL

INTRODUCTION

Pro Rail Services Ltd. is a Railway Civil Engineering Contractor who execute maintenance contracts on Network Rail infrastructure. This project took place on Wessex Route, for Network Rail Works Delivery, through our Level Crossings Framework Contract.

THE CHALLENGE

Pro Rail Services was commissioned as Principal Contractor to replace a level crossing STRAIL system on the RSJ line Between Shalford and Chilworth on Wessex Route.

This was a complex Design & Build project owing to the level crossing set at an angle and no storage areas, which meant that all materials and equipment had to be delivered on the night.

Health and Safety considerations included restrictive working on the level crossing, and manual handling of heavy materials and equipment.

Logistical challenges were difficult as all materials and plant had to be delivered on a just in time basis, as there was insufficient space for storage adjacent to the worksite.

THE SOLUTION

A topographical survey was carried out, during a line block 8 weeks in advance of the planned possession. That data was used to create a new Strail design approved by Network Rail Wessex Route.

Work was carried out in partnership with the rail crossing system manufacturer, Strail.

All work was undertaken under a pre-planned 27-hour possession, using in house resources and plant.

Extra care was needed to ensure there was no damage to the track asset.

As requested by the client, steel beams were used to support the Strail mats, and all works were supervised by Pro Rail and witnessed by Network Rail Site Representatives.

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DELIVERING THE SOLUTION

Traffic and Pedestrian Management was implemented successfully just prior to the possession starting.

Personnel deployed per each 12-hour shift were:

- 1 Site Manager
- 1 COSS
- 6 Skilled Rail Operatives
- 1 Telehandler Operator
- 1 Excavator Operator
- 2 Banksman
- 1 Track Handback Engineer

The existing steel beams were removed and reinstalled using an 8-tonne excavator.

All arisings were put in 1-tonne bags and removed from site using a Hiab lorry with a truck-mounted crane, under Pro Rail's Waste Carrier Licence.

89 Strail mats were installed.

Finally, GLS road markings were re-painted prior to the crossing re-opening, on time.

THE RESULTS

- The project was completed to schedule, budget, and to Network Rail's specification.
- In addition, trespass guards were also replaced.
- All work was carried out safely, with no incidents reported.
- Pedestrian Management Diversion Plan was successful.
- All Track A-G Forms issued to Network Rail on time.
- All 4 hourly updates issued to Network Rail on time.
- Zero Customer complaints received.
- Full COVID-19 compliance achieved.