

DALMUIR

Project Summary

Client: Network Rail

Timescale: February 2014 – October 2014

Linbrooke Disciplines: Telecommunications, Power

Linbrooke Services Utilised: Survey, Design, Install

Customer Objective

To successfully upgrade HDSL copper only cable infrastructure from Dalmuir 5109 REB to a new 24f cable in Glasgow, terminating at the West of Scotland Signalling Centre (WSSC).

Project Overview

Including the provision of circa 17km of lineside fibre optic cable, supporting containment and joint bays, Linbrooke were contracted to deliver a GRIP 5-8 project to survey, design and build new fibre optic cabling from Dalmuir REB (5109) to West of Scotland Signalling Centre (WSSC).

Driven by the approaching renewals and upgrades of the sub-surface CCTV project, Linbrooke were required to deliver a robust network prior to such works commencing.

“Surpassing the requirement for their original project scope, Linbrooke demonstrated reliability in conjunction with a high-quality service and were subsequently awarded further works - which were delivered successfully in a sensitive and challenging environment.”

– David Crilly, Contractor’s Responsible Engineer for Linbrooke Services

Linbrooke Project Scope

With all works taking place above ground, vegetation clearance and route refurbishments/installations were completed prior to the main body of the project.

Linbrooke's further scope of works included:

- Survey, design and installation of 17km of standard 24f cable (24 single mode optical fibres in six tubes of four fibres each)
- Survey, design and installation of 150m of trough between FTN/GSM-R nodes WSSC and 5109 in Glasgow
- Survey, design and installation of 10 intermediate fibre joints within new stakka boxes
- Termination of fibre cable
- Fibre cable splicing onto an in-situ fibre spur within an existing fibre joint F-BANS-GCSC-A-18
- Installation of fibre raceway trunking and fibre patch cords at 2 REB's and Motherwell Signalling Centre (MWLS)
- End to end fibre testing - fibres 1 to 4 between WSSC and 5109, fibres 5 to 24 between WSSC and F-BANS-GCSC-A-18
- Production of all 'As Built' drawings and health and safety files of works undertaken

Due to Linbrooke's high quality delivery throughout the project life cycle, NR increased the scope to include the E&P work to support the Network Rail control's relocation from Buchanan House, Glasgow to West of Scotland Signalling Centre (WSSC).

Benefits of working with Linbrooke

With WSSC as a 24 hour operational signalling centre, it was necessary for Linbrooke to adopt flexible work arrangements. Utilising our strong belief in collaborative working, we liaised closely with Network Rail's shift manager in order to plan our works meticulously and thus prevent detrimental impacts on the signallers at peak times during the day.

To ensure successful project delivery, we consistently provide:

- A strong, detailed understanding of the technical scope
- A full delivery of telecoms, signalling, power, civils and track which ensures multidisciplinary efficiency
- An impeccable health and safety record
- The ability to adjust to project alterations rapidly – and provide alternative solutions when required
- A highly skilled and experienced work force
- Strong relationships with a number of industry experts