

YOKER LLPA

Project Summary

Client: Network Rail

Timescale: December 2014 – October 2015

Linbrooke Disciplines: Telecommunications, Power, Civils

Linbrooke Services Utilised: Survey and Design

Customer Objective

To renew the life expired Long Line Public Address (LLPA) equipment and recovery of all associated assets at 51 railway stations throughout the West of Scotland and integrate the existing Public Address and Voice Alarm (PAVA) systems to the new LLPA system at 5 sub-surface stations.

Project Overview

Including the provision of circa 30km of lineside fibre optic cable and infrastructure to support the new LLPA systems, Linbrooke were contracted to deliver a GRIP 4 and 5 project to survey and design a full LLPA system renewal at 51 stations and integrate a new LLPA interface at 5 sub-surface stations where the PAVA systems had recently been renewed.

Driven by the existing asset condition and associated failures of the LLPA and SISS systems, we were further required to provide a modern equivalent solution for the condition of the legacy cabling infrastructure between each station as it was not suitable for supporting the essential bandwidth for modern LLPA systems.

“Thank you [to Linbrooke] for your time and collaborative approach to resolving this task... and providing a sensible and mutually agreeable approach to the most efficient and practicable method of implementing the component parts that make up this project’s needs.”

- Paul Farmer, Project Manager, NRT

Linbrooke Project Scope

Completing a wide range of both survey and design works – as well as lineside fibre optic infrastructure to support the bearer network - Linbrooke’s scope of works included:

- Survey and design of 30km of trackside 24 fibre cables – including all associated containment, joints, joint bays and integration to existing Relocatable Equipment Buildings (REB’s), nodes and Telecoms Equipment Housing (TEH)
- Survey and design of new LLPA equipment at 51 Stations
- Interface with NRT to collaboratively survey and design new Multi-Protocol Label Switching (MPLS) network
- Design a solution to integrate the new LLPA system to the existing PAVA at 5 Section 12 compliant sub-surface stations
- Survey and design of the LLPA control equipment for the operators at Abellio ScotRail’s Customer Service Centre in Paisley
- Correlation of all existing LLPA assets at 56 Stations for recovery

Benefits of working with Linbrooke

Utilising our excellent inter-industry relationships, Linbrooke collaborated efficiently with NR IP S&NE, NRT, Abellio ScotRail and ATOS as well as the equipment manufacturers and the maintenance organisation. This ensured continually effective communication links, best practice and a successful project delivery.

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