



signalling solutions

“18 miles of Negative bonding and associated ETE Successfully Commissioned in a single weekend”



Pulborough Signal Box with semaphore signal now de-commissioned

UP & DOWN ARUN VALLEY LINES ELR: TBH1



5 MONTHS PROJECT

VALUE £350K

ARUN VALLEY - ARUNDEL TO CHRIST'S HOSPITAL



Pod-Trak were contracted to supply and install all the ETE associated to the Arun Valley re-signalling project.

The Arun Valley re-signalling project was an 18 mile up-grade of the aging signalling system which even included the almost extinct semaphore signals.

To facilitate the upgrade various aspects of the ETE configuration required modification and / or renewal.

The works included extensive negative bonding enhancements, replacement and alterations. This would include upgrading and bringing the existing DC 150sqmm and 240sqmm aluminium Sub-station and TP Hut negative return cables up to standard by replacing them with 800sqmm Aluminium cables. Existing 6mm negative advance plates (Bus Bars) were renewed with the current standard 10mm thick plates. New DC traction negative cables were installed throughout the section consisting of rail to Rail and Track to track bonding. S&C layouts were



10mm Advance Plate with 800sqmm Negative return Cables

reinforced with 800sqmm cables affectively surround (Boxing in) the turnouts providing robust traction return supporting the S&C small bonding.

New signals were installed and commissioned throughout the project. Most of these signals were situated adjacent to the conductor rail. At each of these locations doubled timber guardboarding would have to be installed protecting the signal phone user and NwrR teams undertaking maintenance. In addition to the DC negative

bonding works the project required conductor rail modifications to facilitate level crossing alterations and axle counter installations.

The 18 mile site had to be commissioned in 1 x 52 hour possession. although many of the bonds were pre-installed and “Bagged and Tagged” the task had to be planned in a military style with precise timing.

All above works were installed to programme, design specification and budget.