

# Minor Civils Works

**Expertise:** Civils

**Client:** SRS / Amco-Giffen / J.Murphy / Amey

**Value:** Various

**Duration:** March 2017 to Present

RCU Solutions supply experienced skilled civil teams which are self-contained with van and small tools. We can undertake a variety of works which can range from concrete equipment bases, GRP elevated route, trackside cable routes, buried ducting, compound fencing, access footpaths and cable pulling/dressing. Our civils capabilities are bolstered with our Utilities division where we have in-house tarmac gangs, grab lorries, 1.5t – 3t excavators and various small plant.

To name a few projects where we have delivered works:

**CMSD Safer Isolations Project Phase 1 & 2 - Southeast – Sonic Rail Services** – Supply of civils route works installation team installing Concrete bases and hard standings, GRP raised route, concrete troughing routes, cable pulling.

**GEML PSU – Beaulieu – AmeyInabensa** – We was contracted to undertake various civils snagging works due to the main contractor demobilising. The works included cable route refurbishment, installation of new cable route works, chain link / palisade fencing, ballast board retaining walls, access road reprofiling and install / rip out crane pads for CIAS delivery.



**Cable Route Works / Protection of cables – J.Murphy** – We was contracted to take out the old cable route and protect the cables in split ducting whilst our client undertook embankment works. We renewed the cable trough route with a GRP light weight alternative.

# Electrical – Installation/Testing/Management

**Expertise:** E&P

**Client:** SRS / Amey / RJ Power / Kiers

**Value:** N/A

**Duration:** May 2016 – Present

RCU Solutions have supported various clients and projects with electrical labour whether it be on a fixed price or labour only.

Our management team have a wealth of experience in delivering large scale E&P projects and tackling complex areas to undertake works. To name a few Wessex Capacity Power Upgrade, Gravesend to Gillingham PSE, Sussex DC Renewals and Kent HV feeders.



**CrossRail West / Reading TVA Project – Amey** - Installation, jointing and termination of 650v signalling cable, DNO and points heating equipment terminations along with cable pulling

**Thameslink / Sussex PSE – Sonic Rail Services / Kier** – Supply of skilled ETE resources and plant to carry out cable lugging, jointing/terminating along with pulling and dressing in cable routes/CMS.

**Reading 10 car – Sonic Rail Services** - Electrical installation and commissioning at Buckhurst TP Hut. Conversion of TP Hut to a fully operational Substation including all control and indication wiring in HV module and then commissioning the HV module into service, installation and commissioning of the Auxiliary transformers and LVAC panel, all SCADA communication wiring and commissioning the new RTU into operational service, install Frame leakage relays and complete wiring modifications to existing 750v DC RJR circuit breakers, test and commission new substation earth system and installation of all control and indication wiring to 3MW transformer and Rectifier module.

**Gospel Oak to Barking – Sonic Rail Services** - Supply of labour to carry out the installation of 650v signalling cable and OHLE bonding works.

**Grove Park Depot – Sonic Rail Services** - Installation and commissioning of LCS 750v DC circuit breaker, installation and testing of LV equipment including 110v 32A welding transformers, klaxon warning beacons, overhead status indicators, emergency stop push buttons, 110v supply for inspection & testing, power supply for roller shutter and lighting & small power.

**CMSD Safer Isolations Project - Phase 2 Wessex - Kiers** - Supply of Electrical Site Managers, Supervisors, Electricians and Electrical Mates. The works entail cable pulling, cable dressing, cable terminations; all control and indication wiring/LV cabling/ DC cabling/SCADA, building of marshalling panels and boxes.



# Signalling

**Expertise:** Signalling

**Client:** J.Murphy/Alstom/Volker/BBR/Atkins/Costain

**Value:** N/A

**Duration:** May 2016 – Present

Due to the synergies between RCU Solutions and Technotrack both companies have formed a partnership in which they collaboratively work together offering clients a broader range of services without the usual fee on fee. With TTE offering expertise in Signalling and RCU being able to look after the E&P, Fibre and civils elements of the works it made sense for both companies to do this. Now they can offer clients a full turnkey solution when it comes to Signalling works.

We believe in the importance of supplying qualified staff to our clients. As a business working within the ever-evolving railway industry, we fully appreciate the demand for continuous development and training.

All of the staff provided to projects will come fully equipped with PPE, IRSE Licence, vehicle and Job specific calibrated tools, Cembre and Meters needed to complete the planned work package together with any materials that may be required, our staff also have 24/7 access to fully stocked stores at our HQ. Our aim is to supply our clients with fully, self-sufficient staff who constantly deliver the highest quality of installation.

Projects we have been involved with –

**Cross Rail Anglia – Costain & Alstom** - This project involved supplying SMTH cable watchman who were in charge of overseeing the delivery and installation of new route and cable slews as well as overseeing the recoveries of redundant cabling. We also supplied Installation staff to Alstom which included Signalling supervisors, Team Leaders and Installers working on the Location and 4 foot installation upgrades.

**Felixstowe capacity enhancement project – Volker Rail** – Here we supplied a full time SMTH supervisor as well an installation supervisor from the start of the project, their duties including writing



test plans and carrying out Installation and handover paperwork. We also supplied numerous Installation teams who worked on the Level crossing upgrades and Location and 4 foot installation.

**Norwich/Yarmouth/Lowestoft Re-signalling – Atkins** - We supplied a full time Installation supervisors who was in charge of all delivery aspects of the project. We also supplied numerous Installation teams throughout the delivery of this project who worked on the Level crossing upgrades as well as all the other Installation works.

**Redhill Re-signalling - Kier** - On this project we supplied 1 x SMTH supervisor and 2 x Installation supervisors on a full time basis, we also had around 7 installation teams working on the Geographical signalling equipment in the existing relay rooms and Locations.

**LTNS Re-padding support – TES** - We supplied SMTH cover who were in charge off testing the tracks and completing the relevent paperwork after P-way had completed there re-padding works.



# Telecoms – Installation/Testing/Management

**Expertise:** Telecoms

**Client:** Various

**Value:** N/A

**Duration:** May 2016 – Present

RCU Solutions have been subcontracted to install, test and commission the telecoms scope on various projects. Please see below a brief description on the recent projects we have delivered.

RCU Solutions Managing Director spent 3 years working on the N421 Thameslink project working for Siemens CIS. Worked through many of the commissioning stages from LL09 to HL17. \*Note – Siemens CIS had no involvement with the cable pulling or route works on this project.

GEML ATFS – Beaulieu Substation – We was engaged by our client for the Installation of 9km of 48f cable to connect up the scada links for the new substation. RCU carried out the cable installation via hand pull with cable trailer at access points. On the back of these works we carried out route refurbishments which consisted of heavy veg / ballast removal, installation of route support where troughing was falling down the embankment, elevated route installation and new concrete troughing installation.

Reading 10 Car – Buckhurst TP Hut – Installed new SCADA links from existing fibre network. We supplied the CRE for the works to our client along with TIC to compose the Test Plan.



The actual works consisted of running in 2x new 10pr copper cables and terminating them at both ends, along with testing the cables to FTN standards.

Reading 10 Car – Recovery of telecoms equipment from redundant NTU cabinets.

Sussex PSU – Installation and testing of ETD, internal and external. We were contracted to procure and install the direct line telephones into new DC modules that had been installed on existing substation sites.

HS2 – Old Oak Common – Supply of CRE – We supplied the Telecoms CRE for the decommissioning works at Old Oak Common.

To view more details please visit: [www.rcusolutions.co.uk/telecoms](http://www.rcusolutions.co.uk/telecoms)

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