

PROJECT PROFILE: FRATTON SIDINGS

PROJECT SPECIFICATIONS

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| Status: | Completed |
| Started: | December 2019 |
| Completed: | August 2021 |
| Project Duration: | 20 Months (multiple phases) |
| Client: | BGCL |
| Location: | Fratton |
| Discipline: | Early Design Engagement for Value Engineered Solutions; Civils Works Including Demolition of Existing Concrete Accesses, Engineering of Site and Subsequent Installation of Concrete Aprons, Walkways, Barriers, Track Drainage and Pumping Systems |



ABOUT THE PROJECT

Sunville Rail was engaged to support the delivery of the Fratton Sidings Capacity Enhancement Programme, a major infrastructure project designed to increase operational capacity through the construction of three new railway sidings and associated CET facilities. Working closely with the client from the early design stages, Sunville Rail provided value-engineered civil engineering solutions to support the successful development of the site. The project involved extensive enabling, infrastructure and access works, creating a modern, safe and efficient maintenance environment capable of supporting increased rolling stock operations. Delivered over multiple phases across a 20-month programme, the works required careful planning, coordination and stakeholder engagement to maintain programme objectives while working within a live rail environment.

PROJECT OVERVIEW

Sunville Rail undertook a comprehensive package of civil engineering works across the Fratton Sidings site, commencing with the demolition and removal of existing concrete aprons, redundant infrastructure and trackside assets. Following the enabling works, the team returned to site to establish key setting-out requirements for the track installation contractor and deliver a significant programme of civils infrastructure works. A critical element of the project involved the installation of three under-track crossings to provide connectivity for the site's cable route network. Extensive drainage systems were designed and installed to integrate new facilities and buildings with the wider site infrastructure. Sunville Rail also delivered the construction of a 250-metre-long CET servicing apron, incorporating integrated Anderlite troughing systems to accommodate cable management and waste transfer services associated with the new CET equipment. Additional works included the installation of lighting column foundations, trough routes, concrete and GRP walkways, handrails, Armco barriers, fencing systems, vehicle crossings and access routes throughout the site. The project also involved buried duct routes, cable installation works, drainage infrastructure, lighting installations and the construction of concrete bases and access structures.

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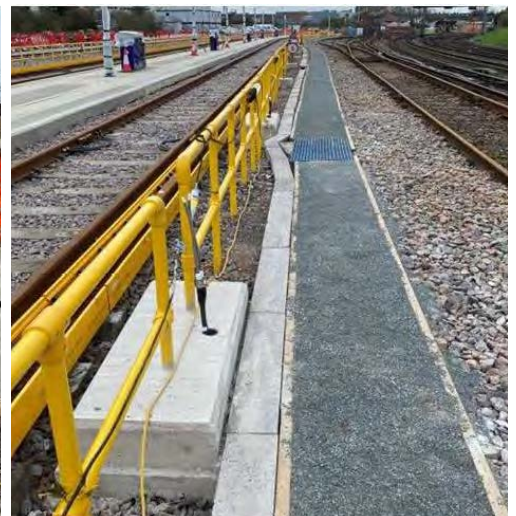
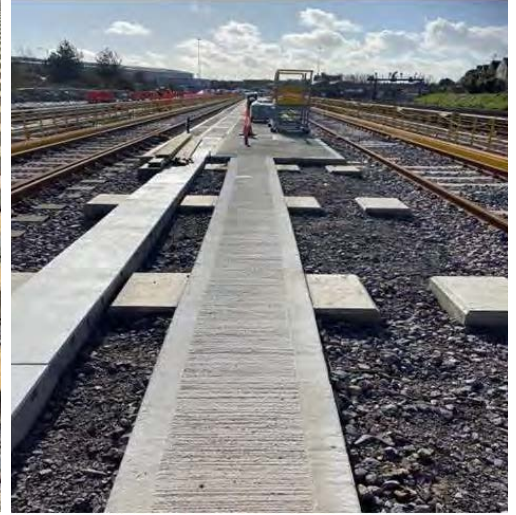
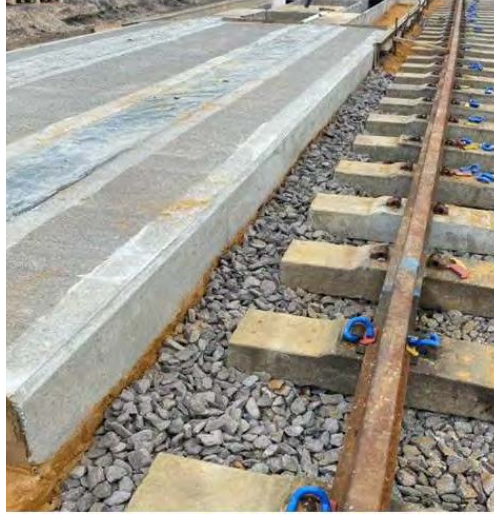
Further Activities onsite included the following:

- Disconnection & removal of redundant assets (e.g Lighting columns)
- Site vegetation clearance
- Saw cut, demolition, and removal off concrete apron
- Buried services location via GPR (if adequate service records are available) and CAT scan survey
- Installation of Buried Ducts
- Installation of Troughing
- Installation of Timber Walkways
- Installation of Armco Barrier
- Installation of Handrail.
- Installation of Concrete Aprons
- Installation of Vortok Fencing.
- Installation of concrete bases.
- Delivery of materials.
- Installation of lighting bollard bases
- Installation of timber walkway crossing boards
- Installation of vehicle crossing.
- Installation of new Main line walking route and access to buffer stops
- Clearing out of existing route works
- Cable pullings
- Under track crossings
- Lighting column installation
- LV Cable Route
- The successful completion of the project delivered a modernised sidings facility with enhanced operational capacity, improved accessibility and resilient infrastructure capable of supporting future rail operations and maintenance requirements.

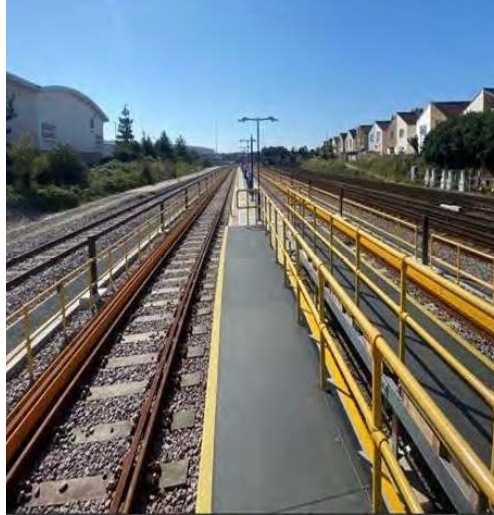
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