

Rail Depot Extension



Location:
New Cross Gate Depot,
London



Client:
The Spencer Group (on
behalf of Transport for
London)



Value:
£15 million



Civil Engineering

Structural
Engineering

Building Consultancy

Geotechnical and
Geoenvironmental
Engineering

Project Management

Specialist services

Working in conjunction with the main contractor, C Spencer Ltd, Alan Wood & Partners were awarded the design contract at New Cross Gate on the behalf of Transport for London.



The project included the improvements and conversion of New Cross Gate depot from a 4-car to a 5-car facility for London Overground. The project included extension and modifications to the main maintenance building, wheel lathe Building (including new wheel lathe pits), relocation and extension of the 25kV test track and reconfiguration of the stabling roads within the Depot to accommodate 5-car trains.

Challenges and Successes

Maintaining full operational capacity of the depot whilst intrusive construction works were undertaken at the depot was a significant project challenge. This required us to work collaboratively with all stakeholders, to ensure the civil and structural design met the operational constraints imposed upon us. Further, the tight construction schedule and critical milestones for track possessions, left little room for mistakes. This required intensive resourcing of the project, led by our experienced rail experts, to ensure the best possible outcome.

The wheel lathe and maintenance pits required complex and intricate reinforced concrete detailing. Our engineering team provided the site team with clear and concise information, leading to an issue free construction period. The works were eventually completed on time, to budget, and to the satisfaction of all stakeholders.

Core services

Civil Engineering / Structural Engineering

Sectors

