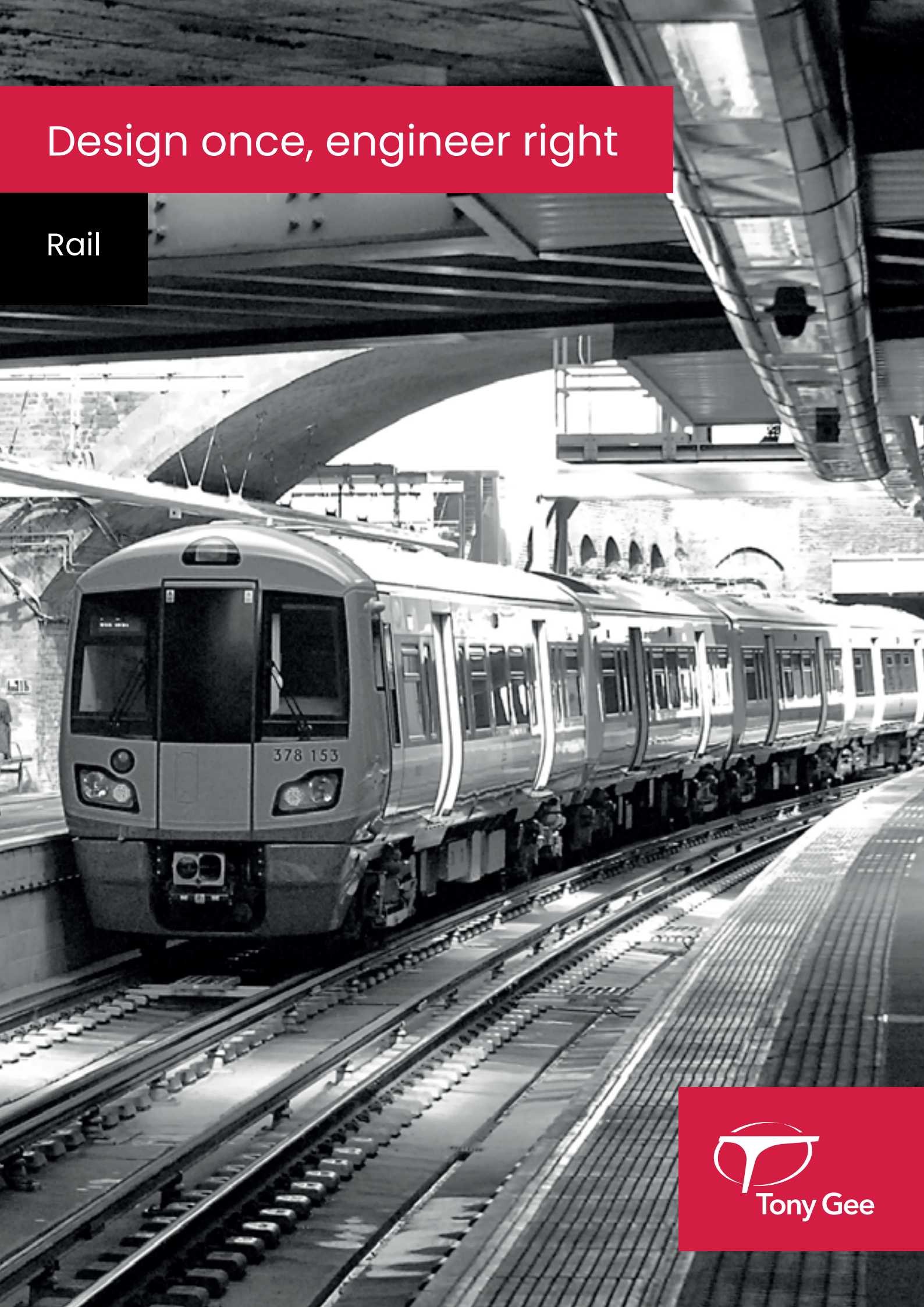
Design once, engineer right

Rail



Tony Gee

Design Once, Engineer Right

Our work is always the best it should be, anticipating challenges and revealing possibilities, avoiding waste and better serving the needs of society and the environment - for today and the future.



Sheikh Jaber Al Ahmad Al Sabah Causeway Project (Doha Link)

Tony Gee in Rail

Tony Gee's experience in the rail sector ranges from infrastructure renewal and enhancement in all regions of the UK to independent validation and verification of high-speed railways in Asia. We have experience of a broad range of delivery models which vary from alliancing and partnering to highly competitive design and build arrangements.

Our projects are delivered by staff who understand the requirements of the rail industry and who are trained to the highest standards of health and safety appropriate to the rail environment.

Practical, buildable rail solutions

Our cultural approach and significant experience in the rail sector allow us to tackle a diverse range of projects in both size and complexity. From earthworks to track, structures to stations our wide-ranging capabilities and flexible approach allow us to meet the requirements of our clients.

We provide design solutions that address budget and programme needs whilst recognising the need to incorporate change when required. The close relationships that we have built over decades with many of the UK's leading and specialist contractors has given us a detailed understanding of materials and methods, buildability, practical site issues and the demands of the project programme throughout every stage of project development.

Digital rail

We regularly employ a vista of techniques that add value to a project. These include visual information aids, applied to early concept project stages, using 3D schematic representation tools such as SolidWorks. We also use project modelling, BIM information management and collaborative working using common data environments. We can also employ Design for Manufacture and Assembly to reduce construction costs and deliver high quality solutions and information where it is needed.

As an important part of our unique ability to integrate temporary and permanent works design, we provide a full spectrum of digital engineering services.





What makes us stand out

Collaborative

Working with clients and contractors on complex projects

Flexible

Agile and responsive in service delivery with an ability to adapt to complex challenges

Delivering value

Socially, financially and sustainably, through our safe and buildable infrastructure designs

Understanding

Construction risk in the design process methodology and design integration

Sustainable

Designing with carbon and biodiversity net gain in mind, ensuring staff are trained to deliver sustainable solutions

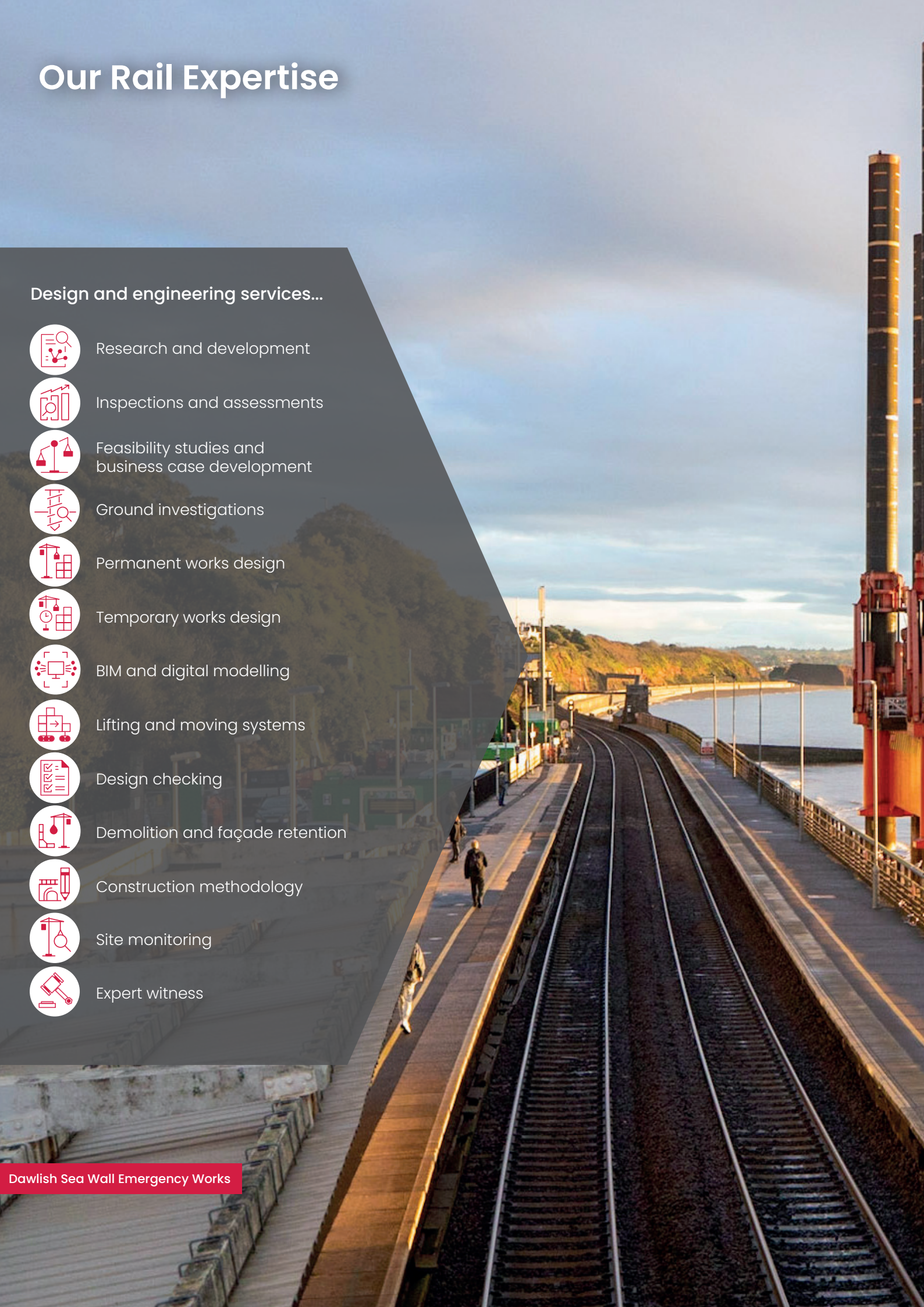
Technical

Highly experienced local teams that understand the challenges faced by clients and invested in its success

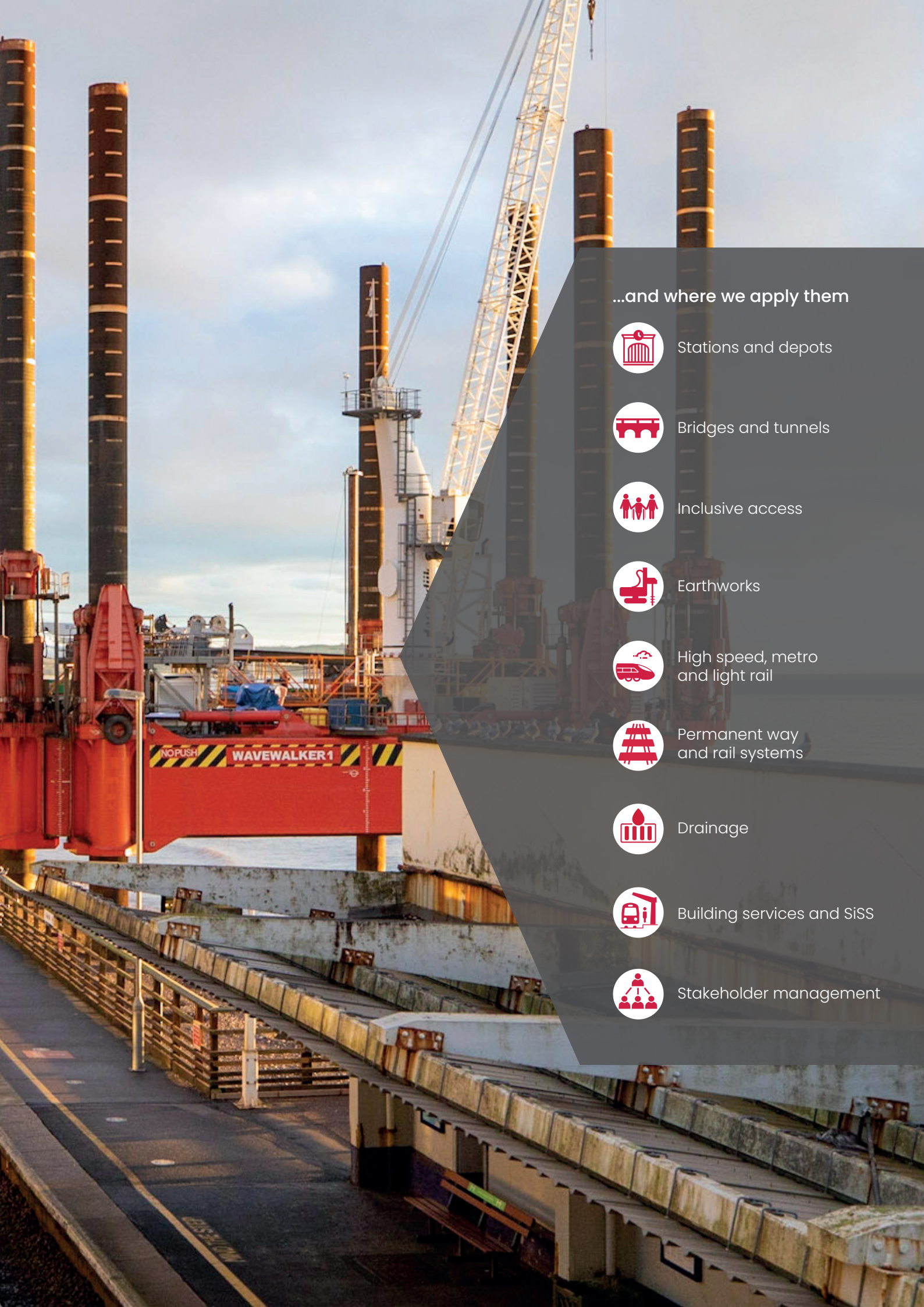
Our Rail Expertise

Design and engineering services...

- Research and development
- Inspections and assessments
- Feasibility studies and business case development
- Ground investigations
- Permanent works design
- Temporary works design
- BIM and digital modelling
- Lifting and moving systems
- Design checking
- Demolition and façade retention
- Construction methodology
- Site monitoring
- Expert witness



Dawlish Sea Wall Emergency Works



...and where we apply them

- Stations and depots
- Bridges and tunnels
- Inclusive access
- Earthworks
- High speed, metro and light rail
- Permanent way and rail systems
- Drainage
- Building services and SiSS
- Stakeholder management

Stations and Depots

Newton-le-Willows Station

Tony Gee has broad experience in the design of stations and depots across the UK rail network and successfully delivered a wide range of projects over more than 20 years. We are able to demonstrate leading capability from heritage work to re-purposing and refurbishment; feasibility to new build.

Bringing together many of our core design services, we understand that each station or depot facility, no matter what type or size, should be an integrated solution for the travelling public, the station operator and the asset owner and manager.

We understand the operational constraints of working within depots and have brought this experience to early-stage feasibility studies, outline and detailed design of new depots, and the design of remediation and modification to existing facilities.



New Cross Gate Depot



Ashley Down Station



Bath Spa Station



Charing Cross Station



MTRC Express Rail Link Contract 810A



White Hart Lane Station

Bridges and Tunnels

Sandwich Bridge

Our reputation has been founded on providing value engineered solutions for rail structures. Our roots as a 'go-to' designer for contractors has allowed Tony Gee to develop the skills and expertise to successfully build an extensive bridge and tunnel structures portfolio in the rail environment.

We understand the constraints and the importance of buildability and value engineering. Our approach is to always look for the alternative, cost effective solutions which has allowed us to provide integrated permanent and temporary works design solutions across the UK and international rail networks for more than 40 years.

Over the years we have been involved with an array of team models and can boast experience of design and build, temporary works integration and full client alliancing projects.

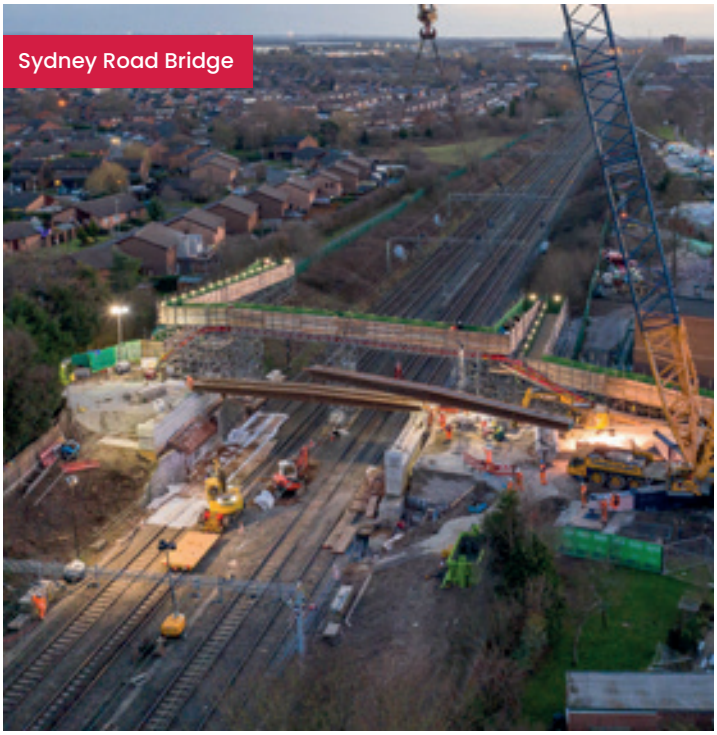


Sydney Metro - Western Sydney Airport



Victoria Station Upgrade


Hitchin Viaduct


Sydney Road Bridge


Werrington Grade Separation Dive Under


Sapperton Tunnel


MTRC Viaduct

Earthworks



Standish Cutting

Our geotechnical and environmental expertise is provided as a stand alone service or is integrated into delivery teams providing a diverse and wide range of skills.

We are trusted as one of Network Rail's key geotechnical consultants under the Design Services Framework and have undertaken significant programmes of works on embankments and cuttings for asset owners or contractors alike.

We were Network Rail's consultant of choice for both the Dawlish sea cliffs and the Dover sea wall emergency projects, where our responsive, flexible and pragmatic approach, together with a can-do attitude expedited successful high profile solutions and delivery.



Friog Sea Cliff

Dawlish Sea Wall



Dover Sea Wall



Bearsted Cutting



Chepstow Embankment



High Speed, Metro and Light Rail

Taiwan High Speed Rail

We have experience through a diverse range of high-speed rail, light rail and metro projects in the UK and across the world.

Cities around the world are increasingly looking at light rail or metro schemes as part of an integrated transport strategy. We can provide a wide range of services including feasibility, outline and detailed design services to clients in support of new or existing networks.

As key design partner for the Midland Metro Alliance we were integrated in to the delivery team, not only providing design but key project and stakeholder management services.

High-speed rail is equally as important in linking cities together and we have experience across the world including the Taiwan high-speed systems and more than 20 different contracts on the UK's HS2 programme.



Midland Metro Alliance


Luton DART


HS2 Longhole Viaduct

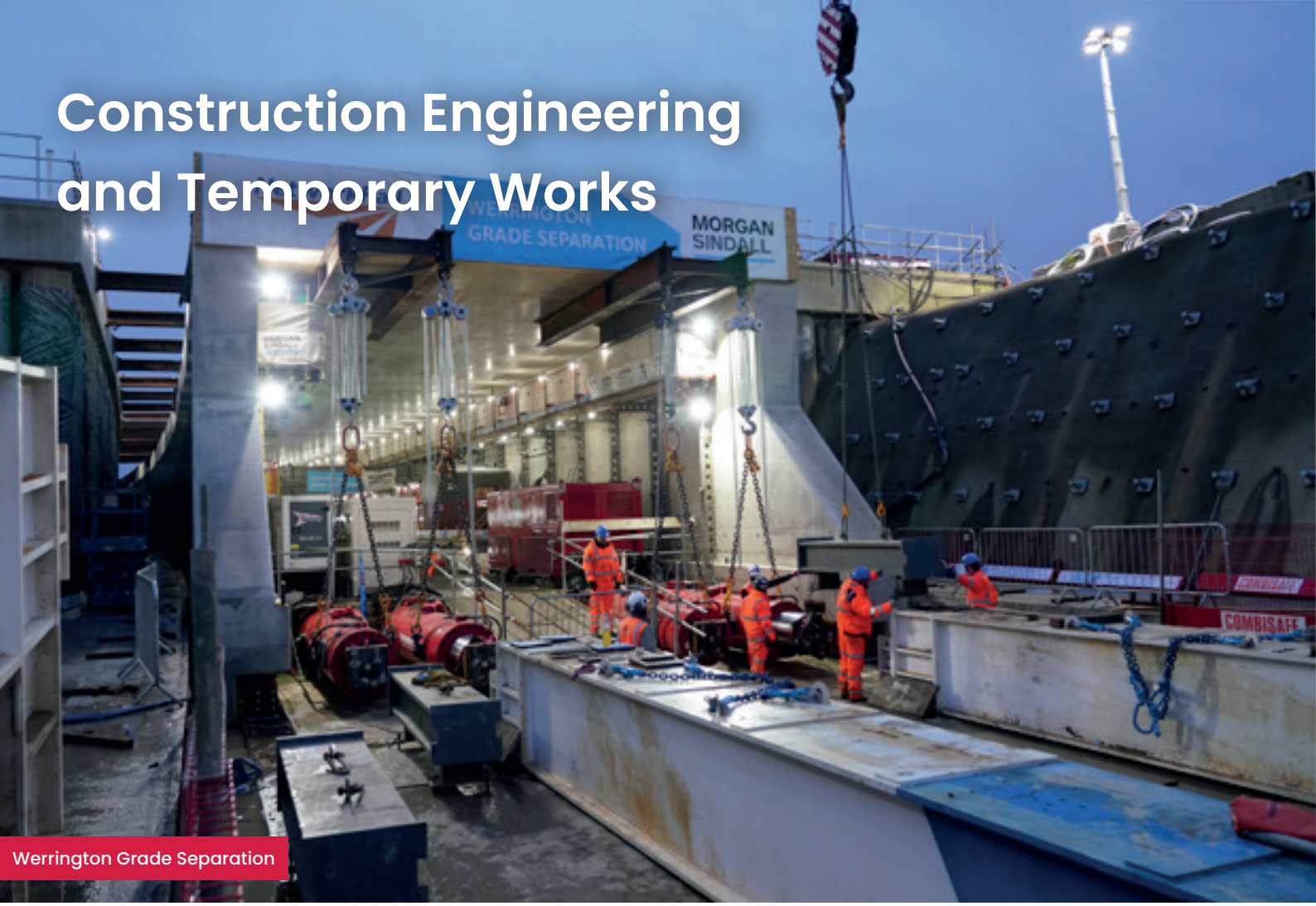

Klang Valley LRT



Scomi Monorail


Coventry Very Light Rail

Construction Engineering and Temporary Works



Werrington Grade Separation

We have developed an extensive capability in both temporary and permanent works design, focussing in particular on integration of design with construction.

Our reputation has been built through the delivery of innovative and alternative designs that have taken into account the employment of construction methods, modern and innovative techniques as well as the effective use of materials. Our approach is always to work alongside our client to consider robust, combined solutions, designing both permanent and temporary works together. We have extensive knowledge and experience of working for contractors across the globe, recognising and understanding the logistical challenges associated with major infrastructure schemes.

Providing buildable designs is at the core of Tony Gee, and the reason why we are one of the preferred consultants for many contracting clients. Within the highly constrained railway environment we understand that how to build is just as important as what to build.



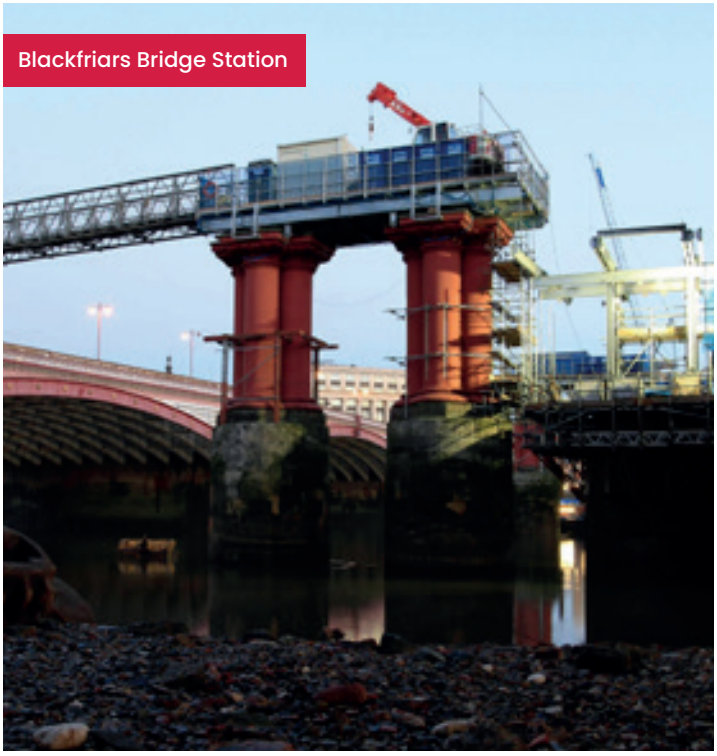
Radlett Strategic Rail Freight Interchange



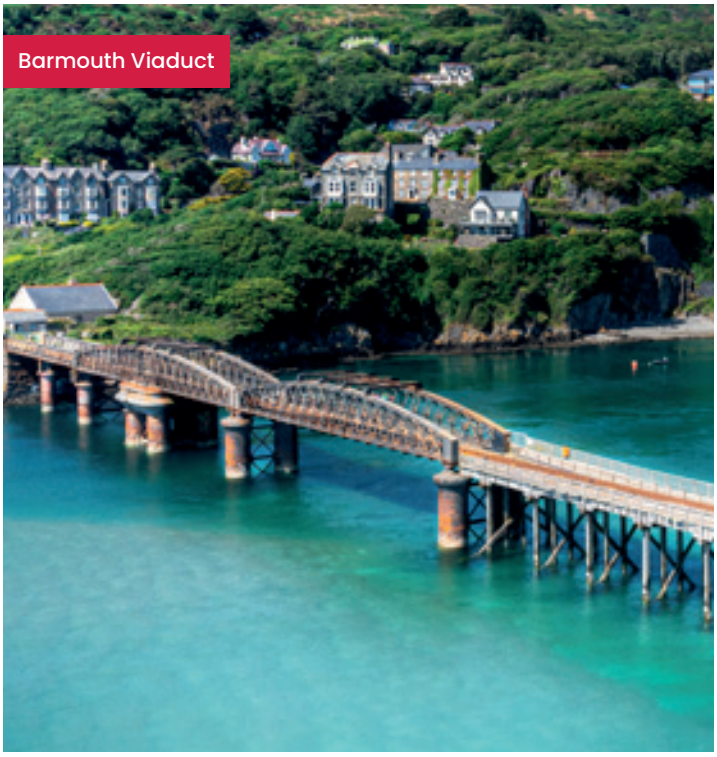
TransPennine Route Upgrade



White Hart Lane Station



Blackfriars Bridge Station



Barmouth Viaduct



New Street Station Temporary Works



Carters Bridge

Permanent Way and Rail Systems



Dalston Western Curve

Our permanent way and rail systems design capability has been a focus of growth over recent years, providing us with the skills and expertise to deliver a wide range of multi-discipline services.

We have significant experience and expertise in the delivery of permanent way and gauging design services, from depot layouts, major mainline upgrades and route remodelling to simple schemes such as bridge replacements and station upgrades.

Through key contractor and equipment supplier partnerships we have undertaken extensive work on both AC and DC across the network including substation design, feeder routes, OLE design and modification, along with design as part of larger multi-disciplinary electrification programmes.

With established and proven design partners we have delivered significant signalling design work in support of wider infrastructure and station projects, providing seamless design integration.



North West Electrification



Neath Road and Bryn Gwynion



London Bridge Station



TransPennine Route Upgrade - Miles Platting



Todholes near Thurso



New Cross Gate Depot

Our Culture



Our culture shapes everything we do, from how we approach challenges to how we interact with one another and our environment. It's defined by six key principles:

CURIOSITY	RESPECT	EXCELLENCE	AGILITY	TEAMWORK	EMPOWERMENT
We challenge and innovate	We care about and value each other and our envrionment	We continuously improve to do what is best	We are responsive and adaptable	We connect capability	We encourage, trust and nurture

Our people make us

We are a business of people. Our size allows us to maintain our values and culture through simple lines of communication and to be able to remain flexible and responsive to changing demands.

We employ highly qualified and experienced staff and develop them through progressive training programmes to develop the broad range of skills across all disciplines that we have built our reputation on.





Sustainability



Designing for a sustainable future

At Tony Gee, Sustainability is in everything we do: from projects to people, we believe sustainability is about building strong and collaborative relationships with the people we work with.

Our vision is to embed sustainable thinking into every decision, every project, every part of our supply chain, and every role across our business. We take an integrated approach, ensuring all our people are trained, supported, and equipped with the tools and skills they need to deliver meaningful sustainability outcomes in their work.

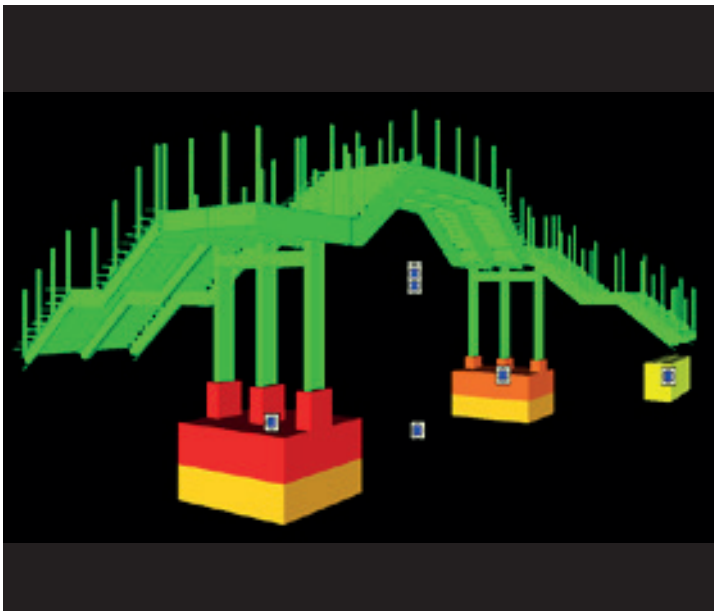
Our focus in sustainability is shaped by our clients' priorities, the scope of each project, and the broader global context, including alignment with the United Nations Sustainable Development Goals (UN SDGs) and to reach Net Zero before 2040.

Giving something back

We take pride in giving back to communities. Whether this is for the contributions we make to charity and good causes or for the engagement in wider industry and local community activity that we support our staff to make. We empower them to make a difference.

We aim to support the communities where we live and work by reducing inequality, improving wellbeing, and leaving behind a positive legacy.

Across everything we do — from our projects to our operations, we apply our experience and expertise to deliver meaningful social outcomes.







Tony Gee and Partners

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- Power and Energy
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East London Line