

Tony Gee News



Reinventing Edinburgh's shopping experience

Tony Gee's innovative and complex temporary works for Laing O'Rourke and Arup are part of the £1bn regeneration of Edinburgh St James shopping centre for Nuveen.

One of the biggest developments currently underway in the UK, the four-year construction project requires a high level of collaboration between stakeholders as it adjoins an existing John Lewis store which will remain open throughout.

To construct a new multi-storey car park beneath the store, temporary steel trestles and hydraulics were installed to underpin the building and enable the removal and replacement of concrete columns and secondary floor beams. An integral monitoring regime has set trigger levels. If breached re-leveling of the trestles' hydraulics will return the building to within +/-5mm of its original position.

Tony Gee also developed the temporary support to the basement's contiguous piled wall. Designed using the observational method, a combination of ground anchors, concrete waler beams and steelwork propping was integrated with the monitoring for staged excavation of the basement.

On track to enhance Network Rail

Tony Gee is providing design services to BAM Nuttall, who have been awarded a renewals and enhancements framework by Network Rail covering Scotland and the North East of England.

Valued at £320m, the framework is part of Network Rail's planned £4bn investment in

their UK wide infrastructure during the next railway control period (CP6) between 2019 and 2024.

The works will involve a wide range of projects including structures replacement and renewals and ongoing improvements and enhancement works to stations across the rail network.



WELCOME

The majority of the news at the moment is on Brexit. I am not foolish or brave enough to make any predictions in print (save those for the pub!) on how that might turn out but what seems clear though is that it is having an effect on our industry.

Whether a direct result or just a knock on effect, there seems to be a reluctance to push the go button on projects. It is all the more important for us to work together and try to drive efficiency and promote good working relationships within the industry.

Creating a sustainable long term business has always been a priority and we invest a lot of time and effort in understanding our clients' needs and ensuring we deliver on project aspirations. The buzzwords in the industry are always changing and there is always the latest initiative to understand.

When you look into most of these proposals, they generally revolve around good behaviour, good communication and treating everyone in a fair and reasonable manner. These values will lead to long term sustainable relationships that are successful for all and the same can be said of internal communications and the way we treat our staff.

So referring back to my opening comment, we can debate the rights and wrongs of Brexit but I hope that in the coming months whatever is agreed is done in the best interests of the country and we can get back to delivering world class infrastructure with our trusted clients.

Chris Young

Executive Managing Director



Developments in Dover

Tony Gee has been working as the design consultant to principal contractor, VSBW JV (VolkerStevin and Boskalis Westminster Joint Venture) to deliver the Dover Western Docks Revival development for Port of Dover.

The overall project approach adopted ensured that the design and construction minimised the impact to the existing harbour and considered the numerous environmental and heritage conditions on the site.

Our design scope includes a 500m long public access marina pier, the new marina and the 120m long Wellington Navigation Channel.

The scope also included a bespoke 125t cantilevered lifting deck bascule bridge, which maintains access to the Esplanade road, and a lock which will be operational throughout the tidal cycle. This will provide the port with the opportunity for wider land reclamation as part of the overall regeneration.

The new marina will provide up to 250 moorings which will be sheltered by the new pier, which in turn serves a dual purpose as breakwater.

The new marina pier opened recently and completion of the navigation channel and marina is set for 2020.



2100m of macroalgae and epifauna habitat created



16% female workforce (higher than industry average)



£157m contributed to local economy



1,517 hours volunteered for community activities

Barnard's Bridge back in action

Tony Gee was recently involved in the replacement of the 120 year old Barnard's Lock rail bridge.

The bridge carrying rail services over the River Kennet needed to be replaced due to the age and condition of the structure. The redevelopments will ensure there will be fewer delays and speed restrictions to services around Newbury.

The design, initially delivered by Executive Managing Director, Chris Young in 2007, was recently revisited by Network Rail when exploring options for the most



viable solution.

Working alongside BAM Nuttall, Tony Gee also designed a number of temporary works to facilitate construction. This included the erection of a 1200 tonne capacity crane and the design of a working

platform to allow it to lift safely.

With a possession based over the May Bank Holiday to minimise disruption, the old structure was removed safely using a demolition sequence and replaced with the new bridge and railway tracks.

BAM NUTTALL

Making a mall in Malaysia

A new megamall is under construction adjacent to the Eastern Dispersal Link, one of the major highways between Malaysia and Singapore near the city of Johor Bahru. Tony Gee provided an alternative design for a curved bridge over the main highway connecting the northbound exit slip ramp to the megamall vehicular access.

Our alternative design yielded a 50% steel saving compared with the original design, significantly exceeding the client's expectations. The team also proposed a lighter substructure design which contributed to further savings.

While the majority of the construction for the access road is in reinforced concrete, the logistics

of installation, the need for minimal traffic disruption and the curved geometry of the 130m long three span bridge favoured a steel box girder solution with a composite concrete deck.

The permanent works design was produced to a very tight programme with liaison, management, temporary works design and site support services provided by our Kuala Lumpur office.

The twin steel box girders were fabricated locally and erected over a series of nights. A trial erection of the steelwork was also undertaken beforehand. The site team noted how useful this exercise proved to be for fine tuning the construction operation.



Middle East anniversary

This year marks the 10th anniversary of Tony Gee being in the Middle East.

Tony Gee has been involved with works in the Middle East over the previous decades, but our involvement for the alternative design of the Saadiyat Island Expressway created the opportunity for expanding the business locally.

The Abu Dhabi office was initially set up as an extension of our Hong Kong office, but independent opportunities followed soon after.

Steady growth in this area enabled us to open another office in Dubai, which is working on Expo 2020, where our team is currently designing the Sustainability Pavilion.

The Saadiyat Island Expressway was the catalyst behind opening an office in the Middle East



Through accurate 3D modelling, we created a sustainable solution by eliminating the need for peat storage bunds

Working with wind

Tony Gee was involved with the development of Innogy's 26.65MW Bad á Cheò Wind Farm in Caithness. Now fully operational, the wind farm will provide enough renewable energy for up to 22,000 average UK homes per year.

Working alongside Farrans, Tony Gee's scope of services included offsite modifications to various highways elements and foundation work,

paying particular attention to reducing peat excavation at the site.

The use of 3D modelling supported the work to limit the volume of peat excavation, thus reducing the negative carbon impact, improving the sustainability of the development. This system also helped minimise construction risks by removing the need for potentially unsafe excavations.

Bridge win in the West Midlands

Battenhall Bridge was recognised as the Large Project of the Year at the 2019 ICE West Midlands Awards.

The judges were impressed by the new approach used to install the railway bridge as given tight timings, site access and the critical nature of the project, every element was planned meticulously to design, match-up and install close to the existing bridge - and all within just five days.

Battenhall Bridge was also declared Best Large Project at the 2019 Chartered Institution of Highways & Transportation (CIHT) West Midlands Awards.

Tony Gee's designed numerous temporary works packages for Alun Griffiths after initially completing a Category III independent check for Worcestershire County Council.



CATERS PHOTOGRAPHY

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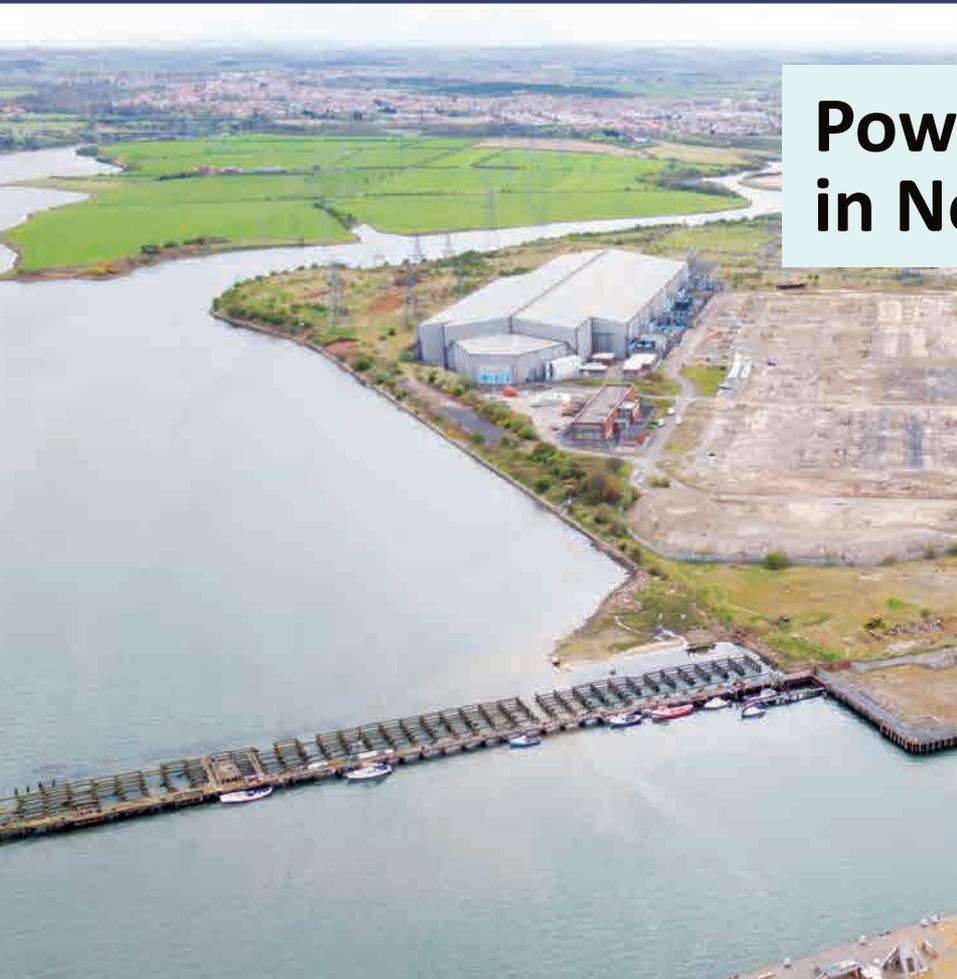
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Powering up designs in Northumberland

Tony Gee is the lead designer for the £25m Northumberland Energy Park Phase 1 at the former Blyth Power Station, Northumberland.

Working for Farrans Construction, our team will be delivering the design for the widening of the existing dock, dredging for a 9.5m LAT berth pocket and construction of two dolphin structures. Our scope also includes design of a cantilever sheet pile wall to provide protection for a Grade II Listed timber staithe structure close to the dock.

We will also be providing earthworks design for substantial site remediation, removing / treating near-surface contamination and the creation of an ecological corridor amongst other services.

Advance Northumberland's vision is to create a development-ready site and fit for purpose dock in order to attract investment (predominantly from offshore wind farm sector) and associated job creation, providing a boost to the local and regional economy.

New additions



Tony Gee is delighted to announce that Karen Hoad has joined our team in Esher as Rail

Group Director. Joining from Jacobs, Karen has been heavily involved in developments on a national and international scale.



Peter Adamson (pictured) and Iain Mowatt have joined our Business

Development team. Peter joins from Kier Infrastructure to work with Chris Burton on UK opportunities in the north while Iain will work alongside Nick Southward at our Hong Kong office.

Rethinking Wokingham's roads

Tony Gee is currently providing detailed design services for four of nine projects on Wokingham Borough Council's Major Highways Programme.

The programme consists of the design and construction of vital road schemes in Wokingham to provide infrastructure to serve 12,000 planned new homes.

Our work includes Eastern Gateway, Spine Road, Western Gateway, West of Old Forest Road and Toutley Road.

The schemes comprise a total of 6km of highway, two long span steel box girder / concrete composite integral highway bridges, a concrete / concrete composite highway bridge, three concrete footbridges, four timber footbridges and numerous box culverts.

Eastern Gateway has been successfully delivered to budget and programme to discharge planning conditions and will be progressing to construction this Autumn. West of Old Forest Road and Toutley Road are currently in detailed design phase.

The remaining two projects are in preplanning / preliminary design which is mostly being undertaken by the client's designer. Due to our performance to date we have been commissioned to undertake the preliminary design.

