

**FAIRHURST**

Practice Profile

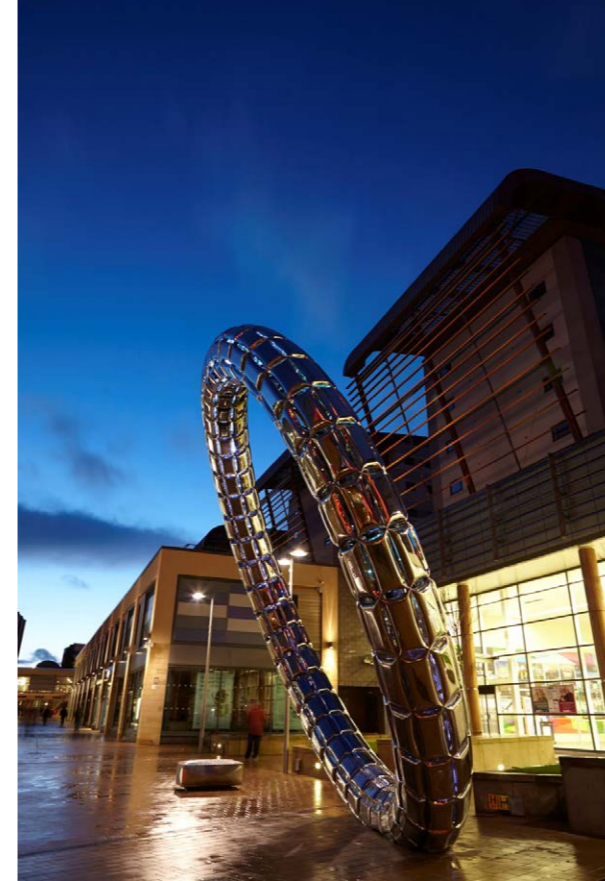


## Welcome to Fairhurst

We are one of the largest engineering consultancy Partnerships in the UK and have been providing high quality services to our clients for over 100 years. Over time the business has evolved from a civil and structural design practice to become a modern client-focused multidisciplinary consultancy which includes specialist geo-environmental, traffic and transportation, rail and planning services.

Fairhurst's success is built on lasting relationships and repeat business. This allows us to develop in-depth understanding of client needs and tailor our services to provide efficient engineering solutions that add real value.

In a challenging business environment we maintain our edge through the personal involvement of the Partners and by maintaining a highly skilled and local workforce who can produce cost effective, sustainable and creative design solutions. Responsiveness and flexibility help to form strong connections which reflect in our service delivery.



## The Partnership

As a Partnership, we are different to our competitors. Our lean management structure ensures that the Partners are personally involved and responsible for the successful delivery of each and every project.

Each Partner brings drive and personal commitment to success. Our reputation is founded upon ensuring that qualified and experienced personnel are available to support all stages of a project. We focus completely on client satisfaction.

The Partnership strives to align excellence in engineering design with project goals and client aspirations. Each Partner holds complete responsibility for all projects in their care, and personally directs all technical resources.

It is this personal involvement from the owners of the company which sets Fairhurst apart and is the reason why we maintain our strong client relationships and traditional delivery model.

Image: Trinity Square

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## Civil Engineering

The scale of our civil engineering schemes varies from small infrastructure condition appraisals to major strategic transport projects. We have the necessary skills, expertise and experience to be able to offer a comprehensive range of civil engineering consultancy services to cater for our client's needs regardless of the scale, nature and complexity of the project. Our current and recent civil engineering project portfolio encompasses roads, bridges, sewers, water supply, communications, energy, airports, public transportation, flood defence, canals, dams, ports and harbours, mining and rail.

We are involved in all stages and aspects of civil engineering design and implementation. We have a proven track record of adding value to feasibility studies, conceptual design, option assessment, specimen design, statutory procedures, public inquiry, detailed design, contract documents, site supervision and whole life asset management. Effective management of the full range of civil engineering disciplines within dedicated project teams, proper consideration of project risks and value engineering results in designs that are fully aligned with the Project objectives.

We take pride in providing added value to our clients going beyond reactive delivery of civil engineering designs in line with a project brief. We always seek to help our clients to identify opportunities that arise within or associated with project. This can include consequential developer lead infrastructure enhancements enabling the creation of residential, retail or industrial schemes.

Through a multidisciplinary skills base, our civil engineering team leaders are able to draw on specialist input at appropriate stages within a project including geo-environmentalists, water and drainage engineers, hydrologists, ecologists, transport planners, surveyors and site supervisors.



Main Image: Port Eglinton Viaduct, M74 Completion Project  
Inset Images (From Top): Tesco Warehouse  
Wansbeck Blyth Harbour Wind Farm

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## Structural Engineering

Along with civil engineering, structural engineering is one of the cornerstones of our business.

Whether the project is a multi-million pound commercial development or a small scale refurbishment project it receives the same attention to detail and Partner led personal service. We pride ourselves in our ability to deliver complex building solutions in a commercially driven manner which meets with the expectations of clients and architects.

Using state of the art engineering analysis software and BIM coupled with good solid engineering knowledge and experience, we are able to provide our clients with solutions which are not only practical but also elegant and push the boundaries of innovation.

From concept stage, into detailed design and through to site implementation, our engineering teams work closely with other professionals to develop the best structural form and materials to delivery economic solutions for each project.

We provide the full range of structural engineering consultancy services from due diligence studies for land acquisition through to full design of all phases of a development project. We work in all the major sectors of the construction industry ranging from new building construction to refurbishment.



Main Image: Marischal Square  
Inset Images (From Top): The Grande Development  
Chapelton of Elswick  
Intercontinental Hotel O2

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## Roads and Bridges

Fairhurst holds a successful history and tradition in the design of transport infrastructure projects, from major river crossings to strategic roads opening up the country to economic prosperity. This has paved the way for our continued growth and increasing involvement within the Roads & Bridges sector, delivering for today's needs, as well as tomorrow's.

Our capability is marked by the breadth of commissions in the sector. We have worked on the Forth and Tay Road Bridges, delivering multi-disciplinary services to maintain these key crossing points. We have delivered design, check and compliance monitoring services on a range of projects including the Upper Forth Crossing, M8 M73 M74 Motorway Improvements, Aberdeen Western Peripheral Route/Balmedie-Tipperty and the A9 Dualling projects. Our recent experience design development, promotion, procurement and site monitoring is enviable, and sees our services now expanding throughout the UK.

We also deliver bespoke design services supporting private and public sector clients to achieve their project aspirations. These include infrastructure for education campuses, industrial and technology parks, historic bridge refurbishments and local road improvements enabling access for new retail or residential development.



Main Image: River Dee Crossing, Aberdeen Western Peripheral Route/Balmedie-Tipperty  
Inset Images (From Top): M8, M73, M74 Motorway Improvements  
Forth Road Bridge

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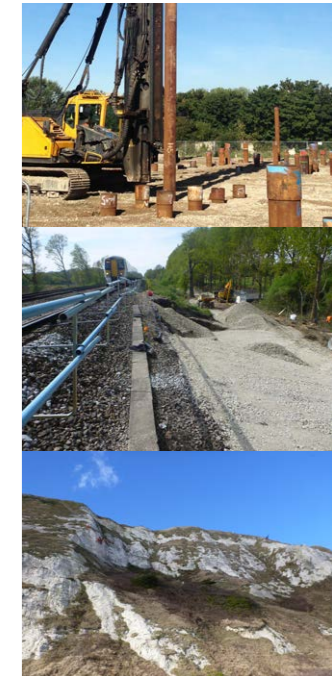
## Geotechnical and Environmental

Our geotechnical and environmental team recognise that the greatest risk to many projects lies in the ground. In taking a fully integrated and holistic approach to investigating and evaluating geotechnical, geological and environmental factors influencing ground related risks we are able to formulate added value solutions which significantly reduce cost uncertainty. Our team of dedicated professionals from a range of disciplines deliver pragmatic yet innovative input which is always focused on our clients interests.

Our specialist geotechnical and environmental resources are strategically located through the network of our offices to be able to provide national coverage from local staff. Working closely with our colleagues in other disciplines within Fairhurst, we ensure that our contribution is properly aligned with the project constraints and objectives.

By working closely with our own client base, we develop an in-depth understanding of the individual needs and aspirations of our clients allowing us to apply our integrated service to deliver appropriately tailored solutions. Our geotechnical and environmental team continually challenge themselves regarding the quality of the service we provide always seeking to improve our added value input, for example, by assisting our clients in keeping up to date with latest developments in environmental Legislation or innovations in geotechnical engineering.

Our client base covers developers, owner occupiers, funds, quarry companies, network rail, rail infrastructure contractors, local authorities, civil engineering contractors, renewable energy contractors and oil and gas service providers. The services we provide range from desk studies for small residential developments and potential site acquisitions through specialist geotechnical risk management for rail infrastructure to full geotechnical design services for major petrochemical facilities. In essence no matter the scale or nature of the geotechnical and environmental requirements, we have the capability and relevant experience to deliver the right solution.



Main Image: Able Seaton Port, Quay Works  
Inset Images (From Top): Tilbury Biomass, Pile Design  
Hoods Wood Emergency Stabilisation Works  
Sapphire Hoe, Rock Slope Stability

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## Traffic and Transportation

The provision of effective and appropriate transportation connections between complementary land uses has long been identified as a key requirement of modern society in encouraging economic development. However, the provision of infrastructure and transport operations has the potential to result in significant environmental impact and consume excess quantities of energy. Reconciliation of these conflicting concerns is a principal objective of our input to Transportation projects.

Transport planning and engineering plays a key role in the delivery of schemes which give consideration to key Government policies related to safety, the economy, the environment, accessibility and integration. It is an essential part of the planning process for developments of all sizes. Fairhurst provide transport planning and engineering services across Great Britain and are fully conversant with transport planning policy, guidance and design standards. We work for public and private sector clients, including some of the country's leading developers and businesses to help them develop transport and travel strategies that are in line with Government policy.

Fairhurst provide a wide range of transportation services from the identification of suitable access arrangements to serve single steading developments in rural regions to contributing to the masterplan preparation and traffic modelling for new towns, and the implications of upgrade proposals for motorways. We provide a complete service from initial advice through to Expert Witness evidence at Planning Hearings and Public Inquiries. We have extensive experience in transport planning and traffic engineering, with a strong background in negotiations with authorities and public transport providers.

Working with colleagues in planning, urban and landscape design, and civil and structural engineers we offer a comprehensive service tailored to individual client requirements and specific characteristics of site location. We work closely and effectively with other professionals as part of planning and design teams.



Main Image: UWS Ayr Campus  
Inset Images (From Top): A737 – Dalry Bypass  
HIE Inverness Campus  
Aberdeen Harbour Expansion

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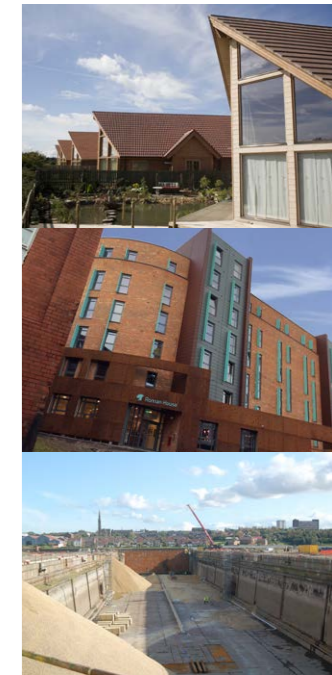


## Planning and Development

The planning and development team is responsible for all aspects of town planning consultancy advice. This includes preparing development appraisals, development briefs, preparation and submission of planning applications and appeals, review of existing permissions and conditions, masterplanning, planning strategies and studies, formulation of planning policy, planning due diligence, provision of expert witness services, development plan monitoring and land promotion, environmental impact assessment and public consultation.

We have a wide range of clients throughout the UK and support all other offices in the Partnership. We advise developers, landowners, business operators and public sector bodies on the statutory planning system. We also have close links with local universities and regularly deliver guest lectures to undergraduate students.

We provide professional planning advice, ranging from local authority secondment services to North Yorkshire County Council to securing planning permission for residential schemes on behalf of Grainger PLC, Avant Homes, Bellway Homes, Miller Homes, Persimmon Homes, and Taylor Wimpey. Due to the Firm's multidisciplinary nature, the development planning team can call upon other disciplines to assist in providing accompanying assessments and detailed design advice for a range of development proposals, including flood risk assessments, transportation, and contaminated land studies.



Main Image: East Durham College, Houghall Campus  
Inset Images (From Top): Hadston Clavering Place  
Neptune Energy Park, Dock 4

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## Landscape and Urban Design

Landscape architecture is all about place making. It is about working with the public and other professions to develop a strong design vision which can be realised and delivered. Our aim is to provide quality, creative and sustainable solutions which exceed our client's expectations.

Landscape architecture forms an integral part of the design, planning, implementation and management of external spaces and requires a holistic design approach. Our landscape architects have experience and relevant skills in strategic planning and urban design advice supported by planners and a dedicated CAD, GIS and graphics team that can provide a fully integrated design service.

Our landscape / urban design team has experience on a range of development proposals for both public and private sector clients undertaking Landscape and Visual Impact Assessments (LVIA), Landscape Character Assessments (LCA), Theoretical Zone of Visual Influence (TZVI), Green Space Reviews, Landscape Management Plans, Public Artwork and detailed landscape design and delivery on behalf of various clients.

The landscape / urban design team is currently working in the health, education, regeneration, commercial, leisure and retail sectors, whilst also supporting other services to deliver large scale infrastructure, flood alleviation, energy including minerals and waste developments.



Main Image: Sheraton Park  
Inset Images (From Top): Shire Park  
Dundee Waterfront  
Beadnell Point

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## Water Engineering

Our water services team delivers reliable and cost effective advice in specific areas such as flood risk assessment, river and coastal engineering, dams and reservoirs, water supply, sewerage, and wastewater treatment.

Our design and advisory services is based on engineering knowledge, experience and judgement deliver feasibility studies, estimates and economic appraisals to support assessment of the viability of a project. Site investigations, ground and aerial surveys, flood studies, and evaluation of drainage system capacities are regularly undertaken for many projects.

Close collaboration with the client, and their other professionals advisors allows us to fully assess, develop and plan a project to meet particular needs.

We are actively engaged in delivery of water engineering schemes on the ground through the provision of designs, drawings, specifications and contract documents. Conceptual designs are agreed with clients before proceeding to a detailed design stage. Once at construction stage experienced staff provide supervision either as full - time resident staff or through regular visits by engineers or inspectors.



Main Image: Glen Finglas Reservoir  
Inset Images (From Top): Reservoir Inspection Services  
Dundee Waterfront  
Hydrodynamic Modelling

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## Rail

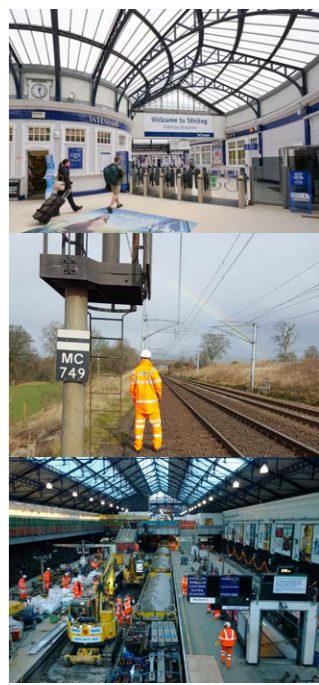
Fairhurst's specialist rail team provide infrastructure design and support services across the UK network for such clients as Network Rail, London Underground, their contractors and other third parties which affect the railway.

The team utilises the expertise from the other disciplines within the firm including civil, structural, geotechnical, environmental, planning and drainage services.

Our commissions have included the design of stations, bridges, rock and soil slopes, tunnel remediation schemes, freight terminals, rolling stock depot upgrades, lineside equipment and infrastructure renewals. We also support non-rail clients whose projects affect the railway by providing the interface between the client and the relevant rail body.

Together with established relationships with other specialist consultants such as architecture, mechanical and electrical services, railway comms, permanent way, overhead line and signalling, we are able to provide a 'one stop shop' for the rail sector consultancy.

The Firm is RISQS approved.



Main Image: Moncrieff Tunnel  
Inset Images (From Top): Stirling Station  
Lineside Civil Works  
London Underground Sub-Surface Track Enabling Works



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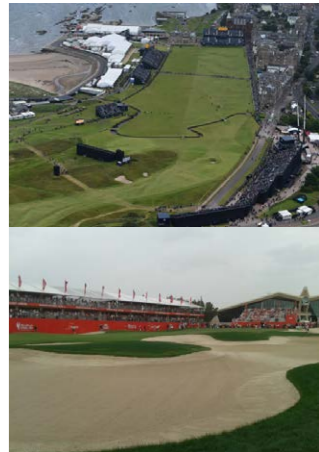


## Health and Safety

No project or event can proceed without proper consideration of Health and Safety. Whether this is consideration and proactive management of construction safety risks or ensuring public safety at major sporting events we offer a complete Health and Safety consultancy service catering for all scenarios. These services are provided throughout the UK and at various locations around the world.

Recent experience has included support to some of the world's largest sporting organisations at events based in Asia, the Middle East and in many areas across Europe. We have provided Health and Safety consultancy support to clients at The Open Golf Championship, The Ryder Cup, the Grand National, the 2014 Commonwealth Games and the pre-Wimbledon tennis championships.

We have a specialist H&S staff resource pool which includes qualified chartered professionals fully trained in Health and Safety and members of the Institution of Occupational Safety and Health working in established and dedicated project teams. With the expertise of the wider Fairhurst family also at our disposal, and our considerable experience in the fields of water, transport, environment, leisure, power and development, we can select our personnel and tailor our services to meet each client's exact needs.



Main Image: Ryder Cup, Gleneagles  
Inset Images (From Top): The Open, St Andrews  
Abu Dhabi HSBC Championship  
"IOSH Managing Safety" Training Services

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## Offices

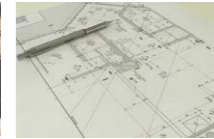
Aberdeen  
Aberdeen (Westhill)  
Birmingham  
Bristol  
Dundee  
Edinburgh  
Elgin  
Glasgow  
Huddersfield  
Inverness  
Leeds  
London  
Newcastle Upon Tyne  
Sevenoaks  
Sheffield  
Taunton  
Thurso  
Watford

Fairhurst covers the entire UK market place, providing a diverse range of services and offering clients a 'one stop shop'.

If you have an engineering project with which you would like Fairhurst to be involved, or want more information on our skills, experience and services, please contact your nearest office.

For more information visit our website

[www.fairhurst.co.uk](http://www.fairhurst.co.uk)



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