



# Cameron+Ross

Practice Profile

Cameron+Ross



Cameron + Ross is a well-established civil and structural engineering consultancy with over 30 years of experience delivering professional services across a diverse range of projects throughout Scotland and the UK.

We are trusted by clients in both public and private sectors for our consistent ability to provide practical, efficient, and cost-effective engineering solutions tailored to the unique needs of each development.

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# Company Overview

Operating from offices in Aberdeen, Edinburgh, and Inverness, we deliver engineering solutions across a wide range of projects, varying in scale, complexity, and sector.

Over the past three decades, we have developed broad and in-depth expertise across a wide spectrum of civil and structural engineering disciplines.

This technical capability has enabled us to build a diverse and loyal client base that includes individual homeowners, local authorities, educational and healthcare institutions, developers, contractors, architects, and private organisations.

Founded in 1993 by Alex Cameron and Alan Ross, the practice has grown under the guidance of its leadership team who continue to build on the firm's strong foundations.



This continuity has led to deep industry knowledge and thorough understanding of both the business and evolving needs of our clients.

Our commitment to Director-led involvement throughout the full project lifecycle is admired across the industry. Supported by a skilled team of professionally qualified engineers and technicians to ensure robust technical delivery and consistent project oversight at every stage.

We recognise that creating exceptional places within the built environment requires a thoughtful understanding of the end user's needs.

Our role goes beyond engineering; we work collaboratively with all disciplines to achieve sustainable, value engineered and highly technical solutions across every aspect of a project, from concept to completion.

Our multidisciplinary team offers expert knowledge across civil and structural engineering design, feasibility assessment, planning support, and project delivery.

We take the time to fully understand the needs, constraints, and ambitions of each client, ensuring our proposals are aligned with their objectives.

Leveraging extensive sector knowledge, collaborative partnerships, proactive problem-solving, and a deep understanding of engineering principles, our team tailors services to meet the specific requirements of developers, architects, planning consultants, local authorities, and contractors.



Our experience spans from smaller one-off domestic projects to multi-million-pound industrial, commercial, retail, and housing developments.



## **Civil Engineering**

### **Innovative and Sustainable Civil Engineering Solutions**

Effective infrastructure design integrates innovative technologies and sustainable practices to enhance quality of life whilst minimising ecological footprints.

Our civil engineers deliver detailed designs that balance innovation, sustainability, and practical constructability across a diverse range of sectors.

## **Structural Engineering**

### **Experienced Structural Engineering for Simple and Complex Projects**

Our structural engineers apply rigorous analysis, innovative material selection, and sound engineering principles to deliver robust, economical, and sustainable solutions.

We prioritise safety, durability, and compliance while collaborating closely with architects and other disciplines to deliver efficient and elegant structures that enable our clients' visions to be realised.



## **SER Certification**

### **Approved SER Certification for Building Structures**

As an Approved Body for the Certification of Design under the Building (Scotland) Act 2003, we provide SER certification for structural design, ensuring full compliance with the building warrant process.



## **Flood Risk Assessment**

### **Comprehensive Flood Risk Assessment & Management**

We understand the challenges facing the public and private sectors and drawing on significant experience in flood risk management, we offer expert assessments and practical solutions to support development in flood-sensitive areas, balancing regulatory compliance with client objectives.

## Transportation

### Transportation Planning & Infrastructure Design

We provide comprehensive transportation advice and design services to support planning applications, masterplans, and detailed development proposals — delivering pragmatic solutions aligned with local and national policy.



## Surveying

### Precise Topographical, Building & Flood Surveys

Our experienced survey team uses the latest technologies to deliver accurate 2D and 3D survey data for a range of projects, supporting design, planning, and construction phases.



## **WIRS Accredited Design**

### **WIRS Accredited Water Infrastructure Design**

As a WIRS-accredited organisation, we prepare fully compliant design packages and applications for new water infrastructure and connections, including Scottish Water and licensed provider consents. We support utility installations and development services for residential, commercial, and mixed-use projects across all sectors.

## **Sustainable Engineering Renewable Energy & Sustainable Design Expertise**

We apply sustainability principles across all services, with experience supporting renewable energy projects and delivering low-carbon, future-ready infrastructure.









# Case Studies

## Kesson Court

# Replacement amenity housing of 21 two-bedroom apartments and wheelchair accessible cottages

At the heart of the development is a communal garden and key to the design of the scheme was higher density accommodation which provides a 'bookend' to the north and a row of three cottages to the south which address the street and tie into the residential scale of the existing dwellings opposite minimising overshadowing.

Located adjacent to the existing flood plain area within Elgin, this project

involved the demolition of existing flatted properties containing sheltered units.

Cameron + Ross was appointed by the client as part of an initial appraisal exercise, in an attempt to modernise and upgrade the existing building however the site redevelopment was delayed awaiting implementation of the Elgin Flood Alleviation Scheme.









The eventual scheme was a £3.5 million timber clad residential block together with associated car parking, drainage and road improvement works.

New ground floors were set to a level agreed with Moray Council's flood prevention unit which to mitigate damage by any exceptional flood events were constructed using flood resilient methods.

Sustainability and low running costs were a core aspect of the design concept. We worked closely with client's sustainability adviser Gaia to meet the project's targets in terms of sustainability resulting in an above ground floor structure of highly insulated deep profile timber frame walls and timber cladding.

One of the main challenges of the scheme was the existing foul and surface water drainage differed to that anticipated which led to reappraisal and amended design for which we gained approval prior to site start having worked closely with the Client and Contractor to ensuring the solution was acceptable.

Road consent was agreed with Moray Council Roads Authority for the remodelled access to the development together with an improved footpath along the site frontage onto Haugh Road. This involved amendments to the existing Traffic Order for which Cameron + Ross provided expert advice.

## The Fife Arms

# Conversion of a category B listed building into a boutique 5-star hotel

Built in the 19th century, The Fife Arms Hotel is a Braemar landmark and a category B listed building having been converted into a boutique 5-star hotel located in the stunning Cairngorms and Scottish Highlands.

Cameron + Ross provided a full range of both Civil & Structural Engineering services for the project, becoming involved at conceptual design stage and seeing the project through to completion and handover.

The nature of the conversion of the historic existing building meant a very 'hands-on' approach was required with significant presence on site, both during the demolition and reconstruction and refurbishment phases.

This allowed us to adapt and evolve the design in conjunction with the other members of the design team to ensure that the building remained structurally stable during the works, while enhancing and highlighting the



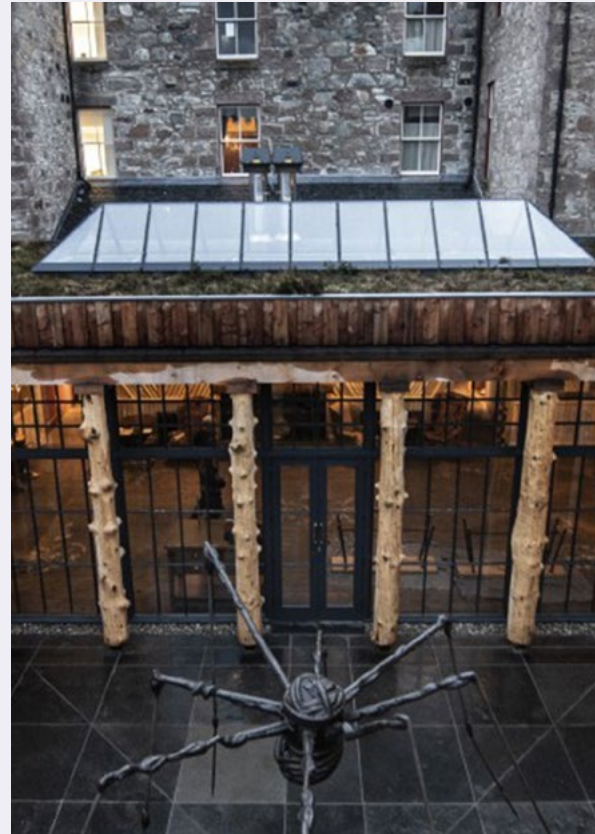




features of the existing building that were uncovered as work progressed.

Additional services included carrying out topographical surveys combining our Leica GPS and Total Station equipment to prepare a detailed survey of the embankment adjacent to the existing Clunie Water course for remedial slope stabilisation works.

Due to restricted access the instrument was operated in a “Reflectorless” mode where inaccessible objects at dangerous sites can thus be surveyed and mapped easily. This mode can also be used for surveying building elevations and the mapping of overhead cables and alike.



## Rocking Horse Nursery

An independent nursery to provide facilities for the students and staff of the University of Aberdeen

The new purpose-built nursery building is the first early years setting in Scotland to be built using the Passivhaus (Passive House) design.

The Passivhaus aim is to be energy efficient and maintain a comfortable environment without the need for using heating. The project is estimated at £1.5 million, and we played a prominent part in the design and construction team to deliver this successfully to the client.

The project is Passivhaus accredited, the first for a commercial project in Scotland. The ground conditions required 43 concrete piles within the foundations, with this requiring detailed investigation and consideration, with this also part of the insulated perimeter detailing.

We implemented the insulated timber construction to achieve both the required structural and thermal arrangements.





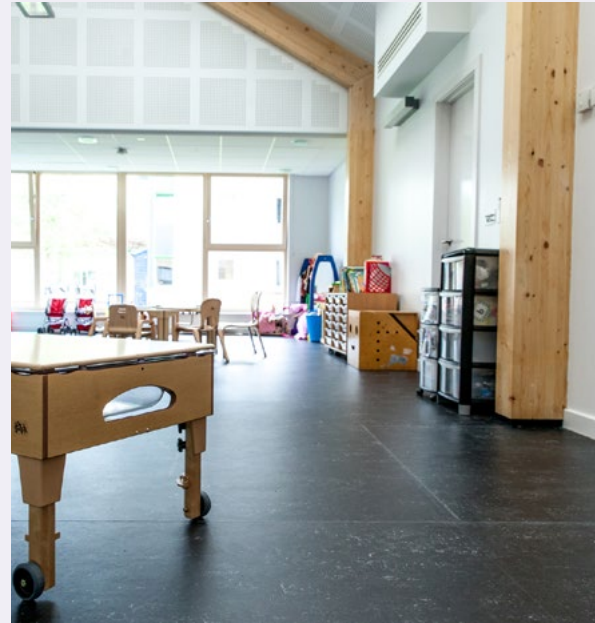


There is 400mm and 450mm of insulation on the walls and roof respectively, with 300mm below the floor slab. The external envelope of the building incorporates eye catching chameleon rock panel cladding, this designed by architects BMJ.

The building incorporates mechanical ventilation and heat recovery system working alongside air source heat pumps.

We worked alongside the client to investigate the existing drainage system and define locations of existing services. The piling operation required a detailed piling platform design, which we carried out under temporary works design.

The project is a stunning example of how modern technology can be used, and looks fantastic today as it did when first constructed.



## Tornagrain

A housing development of over 200 new built homes which will eventually form the Highlands' newest town

Tornagrain is the Highlands' newest town, just 8 miles east of Inverness with a mix of two, three, four and five-bedroom homes and apartments.

Tornagrain sets the standards for modern homes and is a long-term vision to create a sustainable town, eventually comprising 5,000 homes and many job spaces as well as high quality amenity spaces.

Cameron + Ross provided a range of engineering services to design exceptional amenity spaces, local shops and neighbourhood squares.

With our extensive experience in infrastructure design, we lead investigation works including Transportation, Flood Risk Management, Drainage Assessments, Ground Investigations and Earthworks analysis.



20  
ZONE

LOCHANSNEY  
EAST

TÓRR NA GRÉIN  
TORNAGRAIC



Working closely with the client and design team we ensured the design of roads, drainage and utilities throughout the site provided our client with a flexible build programme as well as taking cognisance of the existing constraints which cross the site.

Significant slopes inhibit standard development in parts of the site and Cameron + Ross worked closely with the design team to evolve a suitable design layout incorporating residential street/ open area where the living environment predominates over any provision for traffic.

Throughout the project we engaged with Statutory and Local Authorities gaining the required technical consents

timeously through consultation with the Highland Council, Scottish Water, SEPA and relevant utility providers.



## Mack Lodge

A newly constructed dwelling situated in Cross of Jackston, Aberdeenshire

Cameron + Ross provided Structural Engineering services for the construction of Mack Lodge.

This family home is constructed in the heart of Aberdeenshire and provides an exceptional level of accommodation for a growing family.

The design was recognised through an appearance on the BBC programme 'Scotland's Home of the Year' Black cladding and natural stone finishes

are used extensively, both inside and out, and notably at the main entrance to create a feature and frame the southerly views.

Cameron + Ross provided full structural engineering services and SER certification for the project, including design and detail of the timber kit elements on behalf of the timber frame manufacturer.







We collaborated closely with the architects and contractor throughout the building process to ensure both the client's and architect's visions were achieved.



## NOV Office & Warehouse

Purpose built warehousing, workshop, and office accommodation for energy giant NOV

Cameron + Ross provided full Civil and Structural Engineering services to NOV for a new £40 million development comprising warehousing, workshop, and office accommodation.

The 210,000 sq. ft. facility has helped NOV increase its headcount and combined its services in one location.

Housing NOV's research and development centre for wireline equipment, boasting manufacturing

capability for winches, masts, pressure control equipment and tubulars.

We were appointed at an early stage within the design process, working closely with the design team and landowner Malcolm Allan Housebuilders to advise on engineering matters through the concept to detailed design, and from planning through to construction.







The engineering design elements involved C+R providing topographical surveys, SUDS and surface water drainage design, foul water design, steel frame design and detailing, reinforced concrete design and detailing, blast wall evaluation, SER design and certification for warrant, external yard slab design to cater for heavy mobile equipment, and pit design for the workshops.

We worked closely with Scottish Water to go through their network appraisals for both drainage and water supply, with our WIRS accreditation allowing this part.

Cameron + Ross collaborated closely with landowner, end user and peer review consultants employed by NOV to successfully provide this excellent example of modern day industrial and commercial use within Aberdeenshire.



## St Cyrus National Nature Reserve

### Protecting People, Land, and Nature at St Cyrus

In the wake of Storm Babet's destructive impact on Scotland's east coast, Cameron + Ross was commissioned by NatureScot to undertake a detailed Flood Risk Assessment at St Cyrus National Nature Reserve. The storm had caused partial destruction of the key downstream sluice structure, and our work played a vital role in developing a sustainable response that balances flood protection, ecological enhancement, and long-term resilience.

Our work involved a comprehensive hydrological analysis of the River North Esk and two local burns, using FEH3 methodologies and incorporating climate change allowances. We developed a high-resolution 2D hydraulic model informed by site-specific topographical surveys, LiDAR data, and detailed catchment studies. This enabled the assessment of multiple flood scenarios under both fluvial and coastal conditions, including projections for future sea level rise.







We also evaluated the impact of the sluice gate failure and developed four mitigation options to manage long-term flood risk and support potential habitat creation.

The analysis provided robust evidence to support NatureScot's proposed removal of the failed downstream sluice gate and informed a pragmatic mitigation strategy centred on targeted local embankment repairs. This approach struck a careful balance between flood risk management, ecological enhancement, and cost-efficiency, while minimising impacts on nearby properties during typical tidal and flow conditions. The findings also played a key role in supporting community engagement, helping to communicate the rationale

behind the proposed actions and build local understanding and support.



## Moray Sports Centre

A newly constructed high-class sports facility in Elgin, Moray

Cameron + Ross was tasked with provision of complete Structural and Civil Engineering services under Design & Build contract with Morrison Construction to erect £8.5 million in value modern sports facility. The aim of the project, as envisioned by Moray Sports Foundation, was to create services that benefit Moray's local and regional communities in the aspects of sporting and health provisions. This resulted in a multi-use space with large sports hall, several activity rooms, gym,

café and indoor tennis courts. The final form allowed for future expansion and addition of any services that might further enrich local community of Moray.

Early appointment and frequent value engineering prompted by the main contractor allowed Cameron + Ross to develop cost-effective and sustainable solution. We were providing input throughout all RIBA stages of the project, from initial involvement in the





Moray  
Sports  
Centre



# Sports Hall

Cores 5, 6, 7, 8



planning submission to final completion and handover, ensuring that the client's vision for the facility constantly drives the design process.

The civil aspects of the development that we were tasked to provide included SUDS, surface water and foul water design, new water connection, car park and links to the adjacent Linkwood Road. The structural service included optioneering for the encountered difficult ground conditions, which required vibro stone compaction due to loose sands often present in the area of Elgin. We also provided several variations for the superstructure, undertaken in the spirit of sustainable and economic design, delivering Cellbeam solution for the long span roofs with large cantilevers

projecting outside of the footprint of the building.

The result stands proud providing first class service to the residents of Elgin and surrounding neighbourhood.



## **Aberdeen**

**01224 642 400**

Forbes House, 15 Victoria St,  
Aberdeen, AB10 1XB

## **Edinburgh**

**0131 374 7960**

Suite 23, 4-5 Lochside Way,  
Edinburgh, EH12 9DT

## **Inverness**

**01463 570 100**

Suite A106B, Midmills Building,  
Stephen's St, Inverness, IV2 3JP

**cameronross.co.uk**



C+R

