

MULTI DISCIPLINED TIER 1 PRINCIPAL CONTRACTOR BSG

CIVIL ENGINEERING

L I M I T E D



WASTE WATER
TREATMENT



CIVIL
ENGINEERING



WATER
NETWORKS



FLOOD
ENGINEERING



SHEET
PILING



RENEWABLES



MEICA

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ABOUT BSG

Since its establishment in 1982, BSG Civil Engineering Ltd has developed into the present day Multi Discipline Construction Company with a turnover in excess of £30m. BSG Civil Engineering Ltd is a Premier Civil Engineering Contractor, delivering all Multi Discipline Schemes.

We are currently appointed to a number of longstanding Frameworks for both Northern Ireland Water and Irish Water, and whilst our traditional specialism has been working within the Water and Wastewater industry alongside our Clients, we have shown our ability to adapt by recently completing a number of exciting schemes within various alternative markets including Flood Alleviation, Anaerobic Digester Plants, Environmental Improvement/Public Realm, Marine and Industrial/Commercial. Construction on large-scale concrete structures, pipelines, and building, with associated MEICA (Mechanical, Electrical, Instrumentation, Control and Automation) works.

We maintain an in-house team of committed and enthusiastic professionals in Civil Engineering, Mechanical & Electrical Engineering, and Quantity Surveying with a demonstrated record of providing quality, innovative solutions to our clients. Longstanding relationships and transparent communications are the core of our business.

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OUR COMMUNITY

By its very nature, new construction, refurbishment and management of buildings has an impact upon the local environment, the end users and the wider community. We take a proactive stance in ensuring that our work causes the minimum of disruption to our neighbours and their communities. We also aim to make a positive contribution by becoming involved with community initiatives and schemes, thereby promoting and enhancing good community relations.

ENVIRONMENTAL MANAGEMENT

We strive to improve our environmental performance

We acknowledge our responsibility to future generations. We take all reasonable steps to manage our operations so as to minimise our environmental impact and promote good environmental practice. We acknowledge our responsibility to the natural environment and strive to minimise any negative impact from our operations

ENERGY & RESOURCES

We will improve efficiency

Climate change is one of the key environmental challenges our business faces and we are committed to regularly reviewing our business practices and performance to identify how we can reduce our requirements for energy, transport and water usage. We will also promote good practice in respect of recycling and waste minimisation. Where possible we will use alternative materials and methods to optimise the use of resources in collaboration with our clients and suppliers.

INNOVATION

We innovate to find balanced sustainable solutions

Innovation is essential for the development of our business and for creating vibrant sustainable solutions in the built environment. We aim to stimulate sustainable solutions that balance economic, environmental and social issues. BSG Civil Engineering LTD believe that by acting upon these commitments, we are creating value for our customers, employees, shareholders and the broader society

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CORPORATE SOCIAL RESPONSIBILITY

BSG Civil Engineering Ltd is committed to making a positive different at both local and regional levels by working to engage, support and involve the communities in which we operate.

We view Corporate Social Responsibility (CSR) as the management of our economic, environmental and social responsibilities to benefit our stakeholders and future generations.

Ensuring our business contributes to communities, BSG supports educational, environmental, social and economic activities, which enrich our people, supply chain, partners and clients in benefiting the wider communities.

CORE VALUES CENTRAL TO BSG's CSR COMMITMENT

•**Community Engagement & Involvement**: We ensure our business genuinely contributes to the benefit of the community via the support of educational, environmental, social, charitable and economic support.

•**Skills & Employment**: We provide employment opportunities for all employees, supporting continued learning and development. Beyond our employees, support is provided to our supply chain, partners, clients and community groups for learning and development. We are committed to our Employees.

•**Stakeholders**: We treat our employees, customers, supply chain and communities with respect.

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We recognise the need to be able to attract, recruit and retain employees with the potential, skills and experience necessary for the continued growth and development of our business. The commitments to our people are embodied within the following:

•**Health & Safety and Wellbeing**: Health and Safety is a key priority for our business. We are committed to maintaining and continuously improving standards of occupational health and safety for all our employees, subcontractors and those affected by our activities including members of the public.

•**Equality and Diversity**: We are committed to providing an inclusive working environment where all are treated with courtesy, dignity & respect, where everyone feels valued irrespective of gender, ethnicity, sexual orientation, disability or age. We are committed to equal opportunities in employment, ensuring that no applicant/employee receives less favourable treatment.

•**Learning and Development**: We are committed to creating a learning culture and providing opportunities to ensure that our people are equipped with the skills and knowledge to maximise business effectiveness. We also support our people in realising their potential while contributing to the development of the business and the achievement of its objectives.

•**Our Customers**: We strive to satisfy our customers.

We work in partnership with our customers to deliver quality projects on time, safely and with due regard to the environment. We will work with, and support, them in developing sustainable solutions to meet their needs.

AWARDS



The Green Apple Award: National Green Champion & National Gold Carbon Reduction



CEEQUAL: Outstanding Achievement & Multiple Excellent Awards



Considerate Constructors: Multiple Performance Beyond Compliance Awards



RICS Awards: Previous Infrastructure Winner



CEF Awards: Previous Winner & Multiple Finalist appearances

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ACCREDITATIONS

BSG Civil Engineering Ltd has developed an Integrated Management System meeting the Highest Standards of Health & Safety, Quality and Environmental. We have a committed Health & Safety department who support our staff and construction projects. We comply with current legislative and CDM Regulations by demonstrating a proactive approach ensuring best practice/high standards are embedded throughout. Our Health & Safety Policy continues to be developed and reviewed regularly to accurately reflect our scope of works & comply with OHSAS 18001:2007 and Safe-T-Cert Accreditation.



Certificate of Registration of Occupational Health & Safety Management System to I.S. ISO 45001:2018



Certificate of Registration of Quality Management System to I.S. EN ISO 9001:2015



Certificate of Registration of Environmental Management System to I.S. EN ISO 14001:2015



Certificate of Achievement



Leader in Construction Safety



Scope of Certification

CASE STUDIES

Networks:

Ballydougan to Newry Strategic Trunk Main Scheme – Phase 2b

Value 5.8M

This contract was for the provision of a strategic link between Ballydougan Service Reservoir and Camlough, Newry West and Crieve Service Reservoirs. Work included within this phase involved an extensive upgrade to Crieve SR, the refurbishment and extension to Carnanbane WPS and Cullyhanne WPS and the installation of 6.5km of associated pipeline.



Treatment:

Ballycastle WwTW

Value 6.2M

The scheme involved the construction and associated MEICA installations of a new WwTW within the confines of an existing WwTW and extended land take in Ballycastle.

The construction work included:

4 pumping stations, Emergency Storage Tank, Inlet Screening works, Aeration Lanes, Final Settlement Tanks, Sludge Processing Facility and associated Holding Tanks, Control Building and 2 nr Control Kiosks. A phased construction programme was required to maintain operation and treatment from the existing plant during construction of the new works



MEICA:

Dundrum WwTW MBR Upgrade

Value 2.6M

The existing Dundrum WwTW was previously unable to treat FFT (11l/sec) over the course of a day due to a lack of capability with the existing MBR Units. This in turns leads to premature filling of the storm tank and unnecessary spills.

NIEA had issued an enforcement notice on the works therefore the primary driver for the scheme was to ensure the plant can treat the new FFT of 15.5 l/sec by replacing the MBRs with new back washable membranes with a higher membrane packing density and are much more efficient than the existing membrane modules in all respects.



CASE STUDIES

Pumping: Strabane WwTW

Value 3.2M

This scheme involved the construction of new inlet works to improve flow management and cater for peak flows to provide environmental protection for the Foyle Estuary. It is calculated that this inlet works capital upgrade at Strabane WwTW will provide additional wastewater treatment for an ADI population equivalent of approximately 1,530. Works included demolition of the existing 6mm inlet works whilst using some of the existing structure to complete a new purpose built reinforced concrete Structure to hold 3 No 250 l/sec rated Screw Pumps working in Duty/Assist/Standby arrangement. With new flow balancing and control functions the downstream processes are better equipped to process the receiving flows and loads. New MCC & SCADA controls allows for full automatic operation and monitoring.



Bespoke: Camlough Dam Refurbishment

Value 2M

This scheme involved the refurbishment and upgrade of an existing earth dam embankment and spillway facility at Camlough Lake, Co. Armagh. Main elements of the scheme included construction of a new Draw-off tower within the lake, installation of permanent sheet piles within the puddle clay core of the Dam and subsequent grouting between the base of the sheet piles and rock head. A new reinforced concrete overflow weir, spillway and stilling basin were also constructed. Granite Stone pitching was placed on the lake-side revetment. A new wave wall formed along the crest and the size profile of the dam was increased by adding further aggregate fill material to the downstream side and associated new drainage installations.



Shaft Construction: Bangor DAP

Value 2.7M

This NI Water contract involved the construction of two new Waste Water Pumping Stations and Storage Tanks, both below sea level, at Bangor Marina and Luke's Point, Bangor. At Bangor Marina we constructed a segmental shaft 20m diameter and 6m deep within an existing car park. A circular sheet pile cofferdam was required to minimise the tidal influence on the construction work. At Luke's Point we constructed a new 1600m³ in situ concrete storm storage tank along the foreshore area where again temporary sheet piling was also required.

