



shstructures Limited

Sector Profile: Bridges



Strabane Cable Stay Footbridge N.Ireland



High Cross Retail Centre, Leicester



shstructures limited | moor lane trading estate | sherburn-in-elmet | north yorkshire | LS25 6ES
tel: **01977 681931** | fax: **01977 681930** | email: **mail@shstructures.com** | web: **www.shstructures.com**

Registered in England number: 2747449



Introduction

Formed in 1992, **S H Structures Limited** are an award-winning company who specialise in the design, fabrication and installation of complex structural steelwork across a broad range of construction sectors including health, education, arts, commercial, sport and leisure, and transport.

The design, supply and installation of footbridges accounts for a large proportion of our output and the company are a qualified Bridgework Contractor and are registered under the **BCSA Bridgework Scheme**.

The company frequently gets involved in the early development of a scheme, providing support on technical matters, budget advice and construction methodology. This approach can be particularly effective at the earliest stages of projects when the structural solution has yet to be finally determined and our input may influence the design and help turn a concept into something that can be delivered within the budget and construction limitations imposed on the team.

The company has successfully supplied and installed many types of bridges which include, cable stay, warren girder, truss bridges, complex tubular structures, moving and lifting bridges.

Our extensive experience of working with other materials enables us to supply, not only the primary structure, but also to undertake the provision of a wide variety of other elements such as balustrades, decking, TMD's, access ramps and stairs and lighting. Whilst structural steelwork is our core business we frequently supply other interfacing materials such as glass, timber, tensile fabric, cladding systems and ETFE foil.



Harlech Castle footbridge



QHSE

Our QHSE system is continually being developed and improved to provide a system of controls that ensure we meet all the requirements of our various clients. We have third party accreditation for the following:

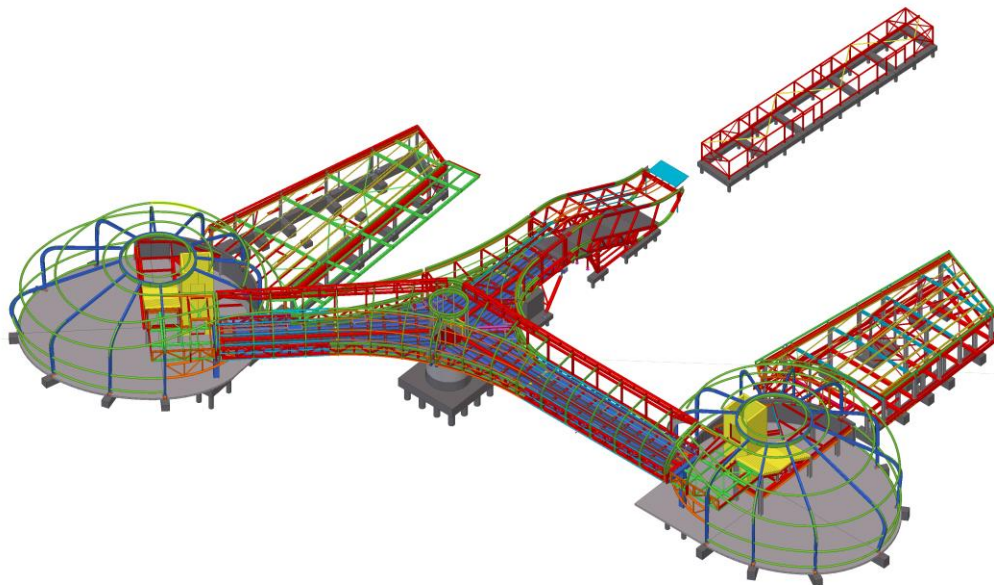
- Quality Management System: **ISO 9001:2015**
- Occupational Health & Safety: **BS OHSAS 18001: 2007**
- Environmental Management System: **ISO 14001:2015**
- Factory Production Control: **BS EN 1090-1:2009 Exc. Class 4**
- Welding Management System: **BS EN 3834 Part 2**



Design and Drawing

All our projects are detailed using three-dimensional modelling software and include all elements of the structure. The company has been at the forefront of the exchange of digital information and BIM and is continuously developing procedures to increase the efficiency of the design and construction process. The company frequently carries out projects that include a number of different materials some with critical interfaces. All these potential problem areas can be identified and eliminated using the model and subsequent careful detailing. The 3D models are also used on site allowing the

construction team to interrogate the model, see a true visualisation of the structures to be installed and allow a virtual walk-through of the project prior to commencement of erection work.





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3d model of Newport Station link bridges and accommodation

Fabrication

Fabrication is undertaken in our purpose-built facility situated in North Yorkshire close to the A1, M1 and M62 motorways giving excellent transport links to the rest of the UK and beyond. The bespoke and complex nature of our workload requires skills of the highest level to manufacture. Our large open workshops enable us fully pre-assemble bridge structures to ensure alignment, pre-cambers and other critical tolerances have been achieved. Fabrication includes heavy plate work, complex tubular assembly with all projects being built in bespoke jigs prior to trial assembly.



90m span bridge being assembled



Completed plated bridge deck leaving works

Site Erection

Controlled by our qualified and experienced Contracts Team, all our activities are coordinated with the clients' professional team, the appointed main contractor and other interfacing trades. Our excellent record in Health & Safety has been achieved by taking meticulous care in our preparation and delivery of all our work on site. Our procedures for installation work include the provision of detailed method statements, risk assessments and lifting plans etc. developed from our extensive experience of bridge installation work during road closures, rail possessions as well as the unique requirements of working over water.



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Installation of footbridge using SPMT units

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Installation using 1200te capacity mobile crane



Seabraes Footbridge, Dundee



Taplow Footbridge



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Sample Moving Bridge Projects



Merchant Square Lifting Bridge, London



Greenwich Reach swing bridge, London



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Sample Bridge Projects



M62 Greystones Bridge



Hemel Hempstead Footbridge



Hungate Footbridge, York



Bridges Road, Scunthorpe



Cheltenham Footbridge



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Sample Bridge Projects



Westonbirt Arboretum STIHL Aerial Walkway



Waterman's Footbridge, Leeds



Rainham Walkway, East London



Sustrans Footbridge, Scunthorpe



Spiceball Footbridge, Banbury



Sample Bridge Projects



M8 Harthill Footbridge, Scotland



Jarrod's Footbridge, Norwich



A40 Footbridge, Acton, North London



A57 Parkway Footbridge Sheffield



River Don, Halfpenny Footbridge, Sheffield



Manchester City FC Link Bridge



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Sample Rail Projects



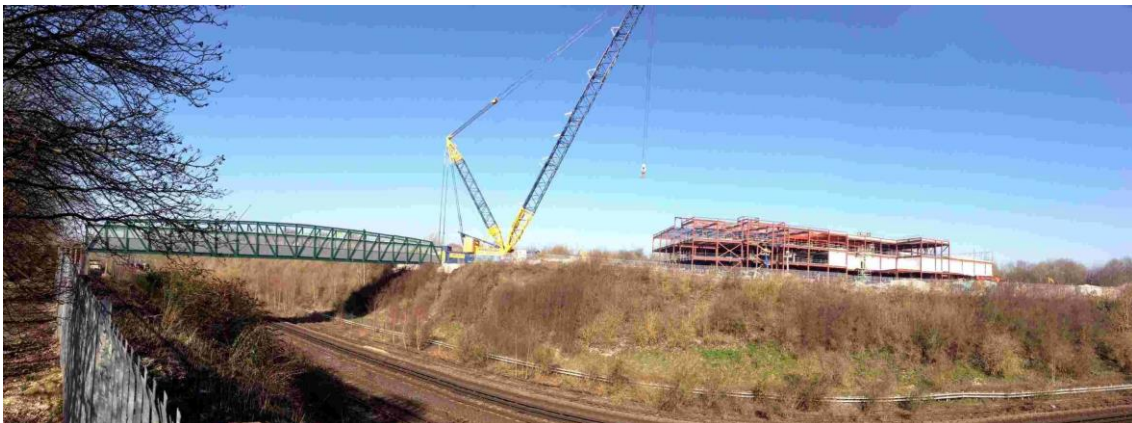
Seabraes, Dundee



Rotherham Station



Newport Station Hub and Footbridges



Network Rail Basingstoke Campus Footbridge



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Sample Rail Projects



Haywards Heath Station Footbridge