caunton
ENGINEERING

Steelwork for Health

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Caunton Engineering is one of the UK's leading steelwork contractors, fabricating in excess of 40,000 tonnes per annum with a turnover in the region of £100m. Supported with over 50 years' experience we specialise in the design, fabrication and erection of structural and secondary steelwork, operating across all sectors of the construction industry.

Caunton Engineering's reputation is for engineering excellence in the Health sector and working with Consulting Engineers on major developments.

We pride ourselves on our ability to remain agile and, as a result, offer a personalised service to our clients. The company is a Gold Status holder within the Steel Construction Sustainability Charter and is committed to delivering Net Zero by 2050.

Phase 2, Circle Health Birmingham Hospital - Birmingham

Caunton Engineering have completed the contract for the steelwork for the second phase of the new Circle Health Private Hospital in Birmingham's medical quarter in Edgbaston.

Client: Circle Health
Main Contractor: Simons Group
Engineer: Bryden Wood
Architect: Bryden Wood
Tonnage: 400 tonnes

The key aspect of the architects design approach had been to create a form of 'adaptive architecture', giving the client the ability to adapt the building as its needs change. The hospital is therefore based on an expandable steel-framed model which can be adapted and enlarged to meet clinical demand now and in the future. For example, in order to accommodate Phase Two, a number of transfer beams had been included along the ground floor ceiling to support the column grid change for the Phase Two first-floor rehabilitation gym that covers the area adjacent to the plant area. Again, to accommodate Phase Two, some Phase 1 members were over-designed in order to accept possible future loadings.

Caunton had pre-welded a series of stubs to the top of the uppermost columns and beams. This was in anticipation of easing the installation of Phase Two members. Phase Two also included a second floor for the main building, known as Block C, which measures 75 metres long by 32 metres wide.

Good Hope Hospital, Ward Block 1 - Sutton Coldfield, West Midlands

Client: NHS
Main Contractor: Interserve Construction
Engineer: Capita Symonds
Architect: Highbury Design & Development
Tonnage: 700 tonnes

Caunton supplied and erected the steelwork, plus the related concrete floors and staircases, for the major extension to the Good Hope Hospital in Sutton Coldfield. Caunton were working for main contractor, Interserve Project Services and client Heart of England Foundation NHS Trust, within the Procure 21 framework. The new extension is called Ward Block One and is a £16.5 million investment and was part of the hospital's 10 year development programme.

700 tonnes of steelwork was required and forms the beam and column framework for the three storey building and an enclosed plant room above. To minimise the building height, the designer, Capita Symonds, has employed a Slimflor design, incorporating universal column sections for the floor beams.

Having completed the extension to the Royal Orthopaedic Hospital in nearby Birmingham, Caunton were very pleased to have been able to contribute to this project.

Apprenticeships
Achilles BuildingConfidence ACCREDITED
common assessment standard site-based
Constructionline Gold Member
CERTIFICATION SCHEME TWI CL ISO 3834
eal RECOGNISED

St Georges Hospital, New Rehabilitation Unit - Lincoln

Client: NHS
Main Contractor: Costain Construction
Engineer: Gifford (Ramboll)
Architect: Gilling Dod
Tonnage: 300 tonnes

Caunton supplied over 300 tonnes of fabricated steelwork for the new £12 million rehabilitation unit at St George's Hospital in Lincoln. The 45 bed unit has been procured via the NHS National Procure 21 framework. The building work by main contractor Costain involved the demolition of the Yarborough Court located at the rear of the Hospital. It will replace the two existing in-patient wards already on site and a third female only ward, which will be built which is a new development for the Trust. The one storey rehabilitation facility is fully operational and accommodates a total of 45 service users at any one time.

Cardiac Catheterisation Unit - Kettering General Hospital

Caunton Engineering were employed by Kettering General Hospital to help build the new Cardiac Catheterisation Unit.

The project involved building over the 'air rights' of an existing single storey hospital building. Caunton erected a sequence of two storey portal frames (one pitched) over this building. These required massive 914 x 419 Universal Beam sections for the 20 metre spanning floor beams.

The site was extremely difficult to access. A 250 tonnes mobile crane was necessary to erect both steelwork and precast concrete floor planks, from outside the footprint of the building.

Fire engineering benefited the design frame - the floor beams were sprayed off-site with intumescent paint, while the columns were in fact boarded.

Client: Kettering General Hospital NHS Trust
Main Contractor: Medicinq Ltd & Simons Construction
Engineer: David Smith Associates
Architect: Gotch Saunders & Surridge
Tonnage: 300 tonnes

Stoke Mandeville Hospital Redevelopment

Client: Stoke Mandeville Hospital Trust
Main Contractor: Alfred McAlpine Capital Projects
Engineer: White Young Green
Architect: HLM Design International
Tonnage: 800 tonnes

Caunton Engineering supplied Alfred McAlpine Capital Projects with steelwork to extend the facilities of the world famous hospital, the Stoke Mandeville Hospital near Aylesbury. Working within an operational hospital environment is difficult enough but the extensions in places overhand the existing building. The attention to safety for all and the attendant erection expertise required was therefore of the highest order.

The interesting architectural design is by HLM Design International, with engineering by White Young Green Partnership. It features a range of courtyards and in this particular instance Caunton's crane and mobile elevated working platform has been able to work conveniently and efficiently from within one of those areas.

Caunton's contract included the supply of 800 tonnes of structural steelwork, mainly beam and column braced frames, up to three storeys in height, plus the metal decking and through deck stud welding and metal staircases.

UKCA
SCCS
UKAS MANAGEMENT SYSTEMS 0021
RISQS Verified
BCSA
Steel Construction Sustainability Charter
INVESTORS IN PEOPLE™ We invest in people Silver
ISOQAR REGISTERED
UKAS MANAGEMENT SYSTEMS 0026

Circle Health, Birmingham Hospital - Birmingham

Main Contractor: Simons Construction
Engineer: Bryden Wood
Tonnage: 500 tonnes

Caunton have supplied the steelwork for a private hospital in Birmingham for major contractor, Simons Construction. Interestingly, the design separates the clinical and the hospitality functions in two distinct wings, with all departments accessed from the main central atrium.

Caunton have supplied 500 tonnes of framing, structural steelwork, with the most challenging element being the Clinical Wing and Theatre space, which is built off a podium concrete deck, which formed the Under-croft Car Park. With flexibility in mind, the lift shafts and stair cores were designed higher for the hospital / Clinical Wing, allowing for a future extension.

The client is Circle Health, a company that runs hospital, rehabilitation and health services across the UK.

Caunton were pleased to have worked again for the health services in the West Midlands. In 2012, Caunton supplied and erected the steelwork for an extension to the Good Hope Hospital in nearly Sutton Coldfield, also a member of this trust.

Bio Development Building, The Babraham Institute - Cambridge

Main Contractor: Marriott Construction
Engineer: Colin Toms & Partners
Architect: SMC Charter Architects
Tonnage: 260 tonnes

Caunton Engineering worked for Marriot Construction at the esteemed Babraham Institute, located near the University city of Cambridge.

Those working there undertake innovative biomedical research to discover the molecular mechanisms that underlie normal cellular processes and functions and how, over lifetime, their failure or abnormality may lead to disease. The institute provides its scientists with an extensive infrastructure of central support services and with privileged access to a number of scientific companies. In addition, the institutes support services offer possibilities for external contract work. The five year program of development of the central campus saw all research groups houses in an interconnected set of laboratory buildings with an adjacent building housing all the scientific service facilities.

Caunton has provided steelwork for the Bio Incubator Building, now being used by start up companies.

Other Health Projects Include:

- Gibraltar General Hospital - Gibraltar
- NHS Direct Call Centre - Nottingham
- Queen Mother Hospital Thanet - Kent

(Gibraltar General Hospital)

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