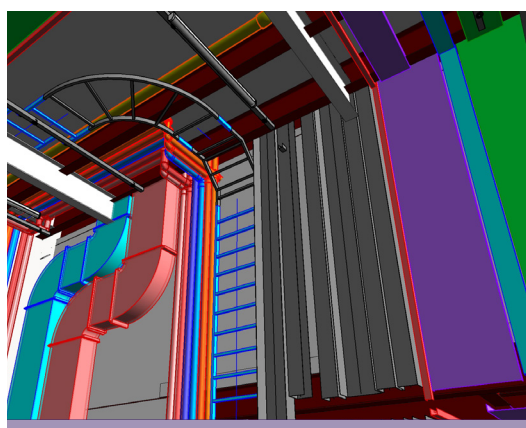
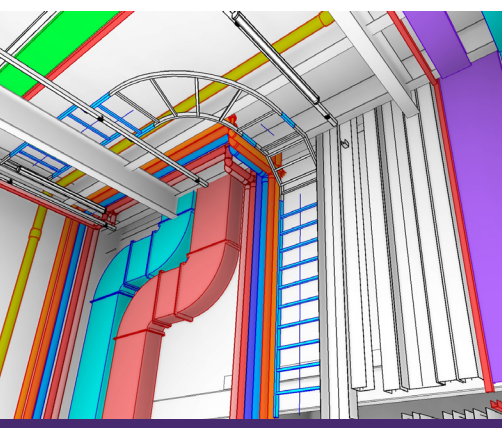


CASE STUDY

HULL NEW THEATRE



HEADLINES

BIM-LED

mechanical and electrical design and build

GRADE II

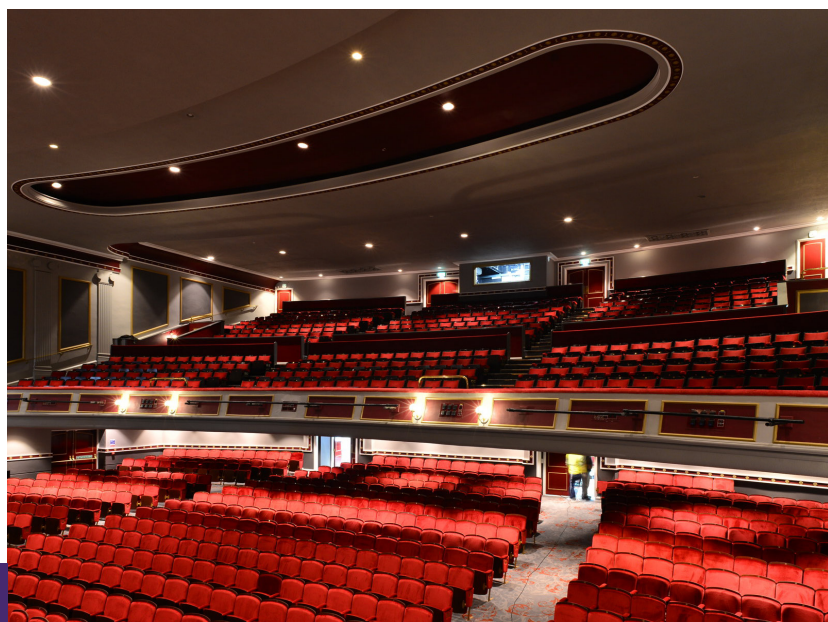
listed building sympathetically refurbished with modern day building services

MET

a tight deadline that was non-negotiable due to tickets sales for theatre productions

PLANTROOM

pipework sets manufactured off-site by G&H Fabrication saved time and increased safety



KEY FACTS

Project title: Hull New Theatre
Location: Hull
Services: BIM-led Mechanical and Electrical
Client: Hull City Council
Contactor: Sewell Construction

Value: £2.4m
Duration: 52 weeks
G&H divisions: Building Services
Fabrication

CASE STUDY HOW WE DID IT



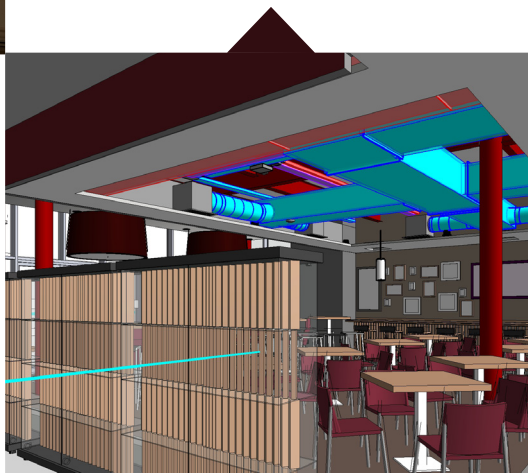
This was a technically challenging project from both a design and delivery perspective.

The £16 million scheme, of which we delivered £2.4 million of M&E, saw a new entrance and foyer built featuring hospitality facilities to welcome guests and the original theatre building was fully refurbished - all while retaining the character of a grade II listed property.



The back stage area received a comprehensive overhaul.

A bespoke state-of-the-art technical infrastructure was designed and installed along with a new 27-metre high fly tower to help the theatre deliver a higher standard of productions.



The backstage area was also expanded and redesigned to give a contemporary feel, all of which creates a more welcoming environment to make it more appealing to larger touring companies.

A rejuvenation of the front-of-house now sees a modern café, an additional bar and flexible breakout spaces for businesses and social use.

One of the biggest challenges we faced related to ventilation and acoustics in the main auditorium. During the early design stage it became apparent the ventilation system required a considerable increase in ductwork size.

Implementing increased ductwork within the existing auditorium void created a genuine challenge not only to work around existing steelwork structures, but also to co-ordinate with the electrical and theatre production specific services.

We also had limited room in the ceiling voids and had to find alternative routes, equipment and products suitable to save space.

By using BIM, we were able to change the 3D modelling and issue updated drawings to the contractor in real time showing proposed solutions that would fit in the void and within the existing structures without the need for repeat site visits.

We calculated this saved four days of work - the equivalent of 75 per cent of the time - it would have taken if we were not using BIM. Another challenge faced related to the designs of the M&E; it had to be aesthetically pleasing as services such as pipework and electrics were on view.

The work was also carried out to a tight deadline that was non-negotiable due to pre-booked ticket sales for productions. To help speed up delivery, our Fabrication division provided bespoke plantroom pipework sets off-site, which also increased safety levels.



KEY CONTACT

Andrew Hudson
G&H Group Director
andrew.hudson@ghbs.me
0113 255 6433