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LIFTING STAIRCASES

WHEN TRADITIONAL METHODS JUST DON'T CUT IT

DSM

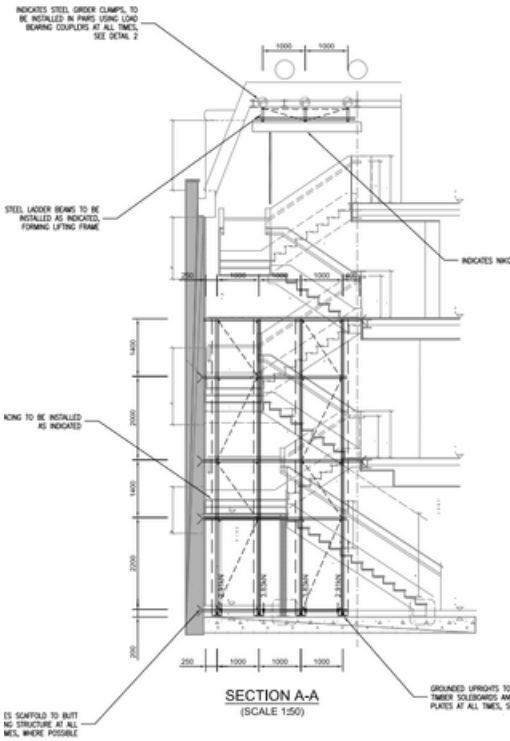
THINKING OUTSIDE THE BOX

LIFTING STAIRCASES IN SECTIONS AT STATIONERS HALL LONDON

We recently had a meeting with a steel company, who needed help and direction on a very unusual lift they required.
We needed to install an entire four-story staircase into a new building extension in the famous Stationers Hall in London.
The roof installation programme dictated that the roof has to go on first due to historic design and weatherproofing issues, leaving no access.

For traditional access via the roof, entry points to lower the steel products through and then erect from the ground up are typically undertaken on steel staircases or structures on existing buildings and infrastructure.
This caused some serious logistic and component issues. The whole staircase and its sections needed to be brought into the building for erection via a very narrow entrance and then assembled in sequence from the ground up.

Through regular DSM meetings and experience & direction, the senior design engineer on this project then built a scaffold structure. This was "sandwiched" in the roof cavities, top and bottom, to effectively brace the scaffold top and bottom.



" Our client just took it in his stride as he knows we're trustworthy and knowledgeable and once the task was actioned, it went according to the plan." - Melvyn Rogers

This was to compensate for the overturning moment that could happen during the lifting procedure. The scaffold system was then fully braced and tested, with a scaffold lifting beam extended over the opening, enabling us to lift the items to the floors in preparation for building them from the bottom to the top.

As previously mentioned, the usual procedure is to erect starting from the bottom and finishing at the top via the opening through the rooftop lowering to the ground floor.
In this case, we had to erect without access from the rooftop, so that's where the modular build, plant movement, structural engineering, bespoke lifting arrangement and all of the other challenges started from the fact the roof was fully weathered by the time we mobilised. We were asked to find a solution, and we did, along with completing the project a day early. It's not the most expensive job we'll do as a team, but it's still highly hazardous and very intricate.

Through teamwork and industry experience we achieve the impossible, to deliver our lifting services, along with an abundance of interwoven components that must sequence correctly to enable the milestones to be reached within the project.

Melvyn Rogers, MD of DSM said:

"If any one procedure was out of sync, then it could hamper progress completely, as it had to be done in one thought out sequence or else it'll fail."