

Company Name Confidential - Cupoertino, CA

Ranked in the top five companies of Fortune 500 list of 2020, this company is an American multinational technology company headquartered in Cupertino, California, that designs, develops, and sells consumer electronics, computer software, and online services.

HGA was commissioned to work on the labs in the main building, and later was given the opportunity to work on the office sections as well. Worked with well-known architectural firm on designing the labs, developing details, and 3D models of the space, and worked on mockups of each element for the client to review and approve.

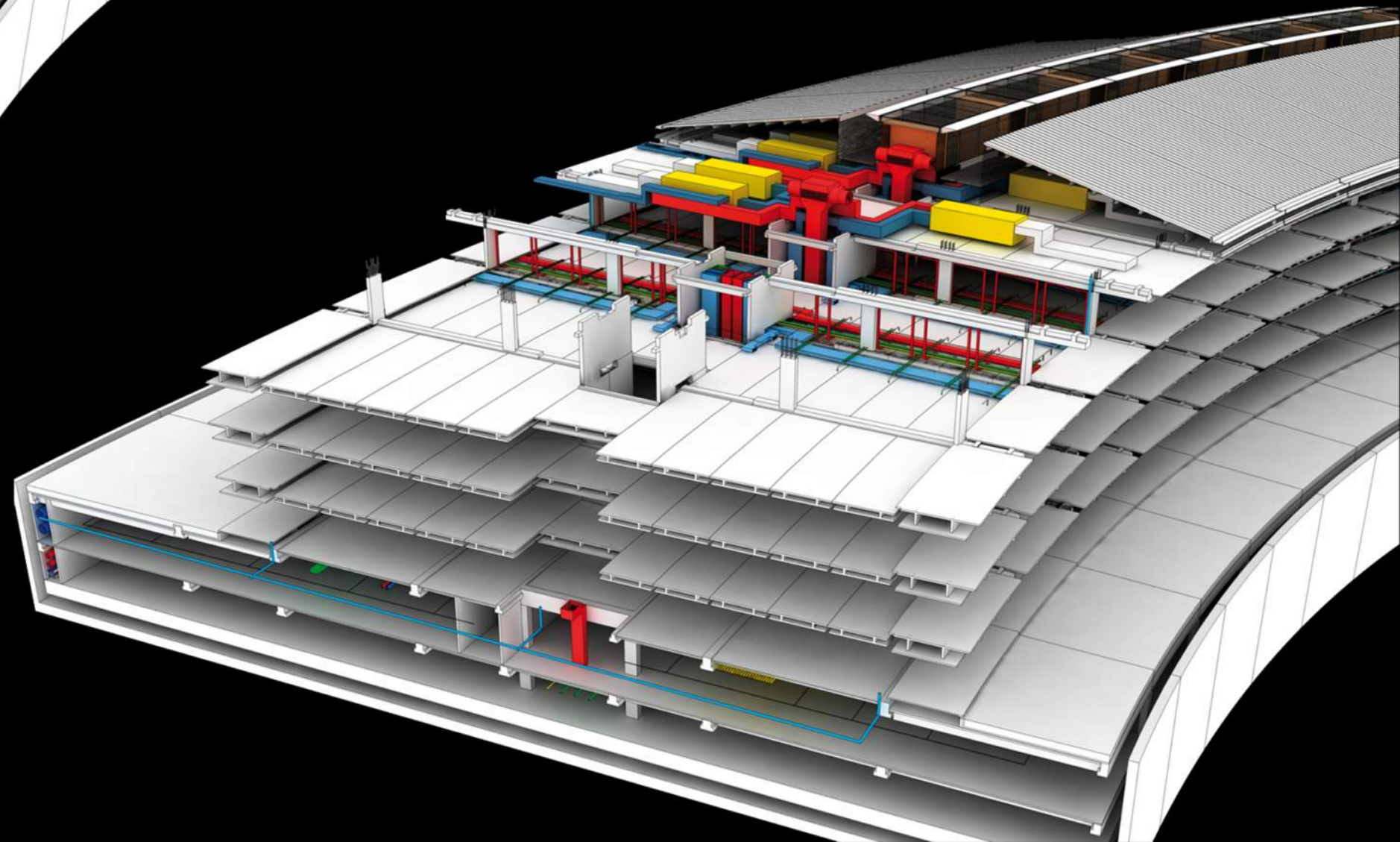
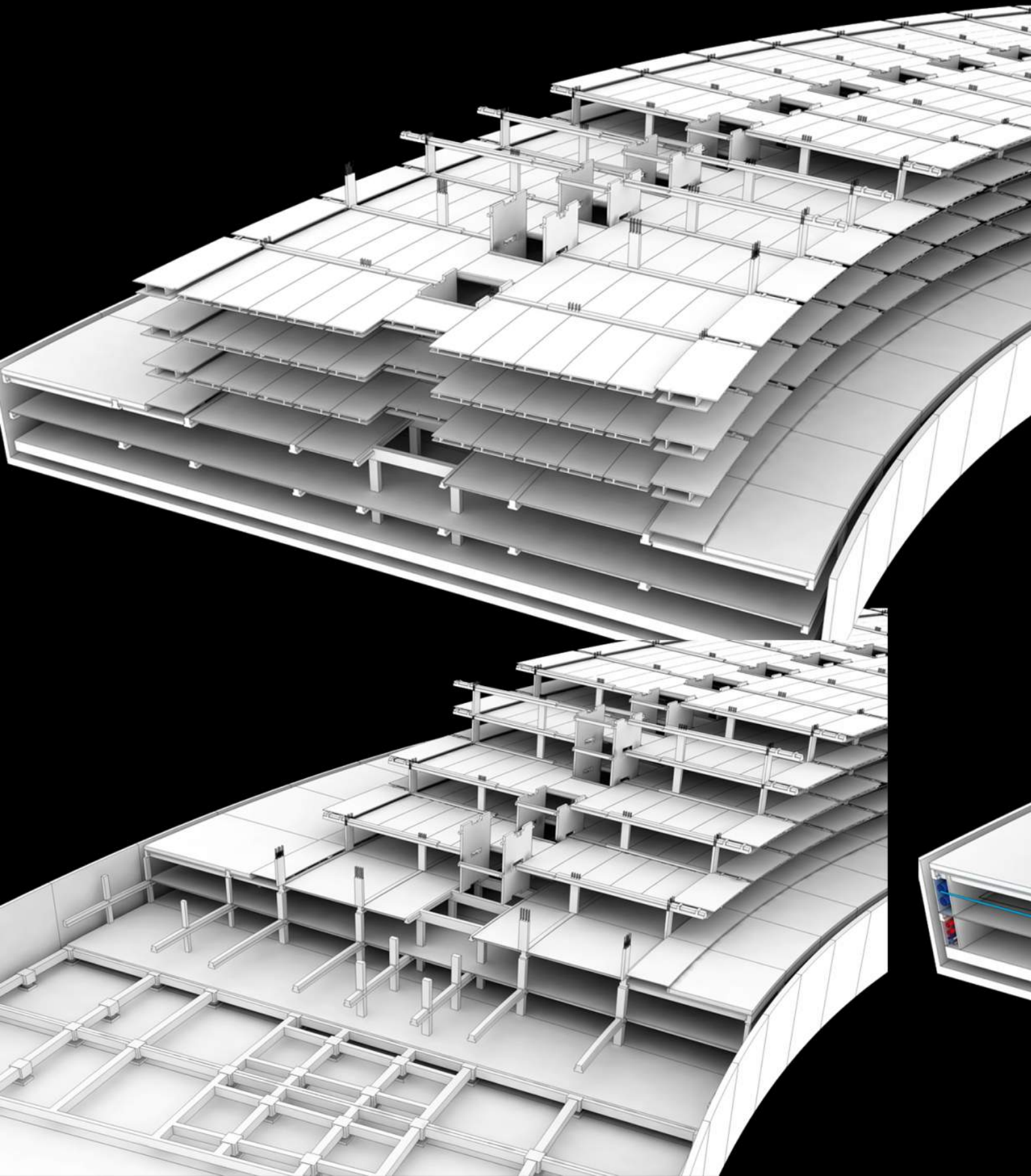
Working with such massive group of contractors, sub-contractors, and the amount of coordination that took place on a regular day was a bit of a challenge, but I was able to adapt to the new environment very quickly. Also, the unique shape of the building made the design and preparing the required construction details harder, but the team was able to overcome that easily.

To be able to keep tack of all the meetings, deliverables, and deadlines, I, as the main meeting organizer, had to be very specific in my note-taking and was recognized firm-wide for being detail oriented and organized.

Company Name Confidential - Lab Design

The project started before my involvement with HGA architect. London-based Architectural firm, Foster and Partners as the Design Architect on campus had started the conversation with client on the location of the labs to a degree. HGA Architects was hired to start the lab design project and to collaborate with the Design Architect on the office portion for a cohesive design of the main building.

My involvement was focused on the labs. Along with a group of four designers and engineers, collaborated on preparing the Revit model of the building to assist the two contractors with understanding the project from the construction point of view. This was the first phase of my involvement with this project.

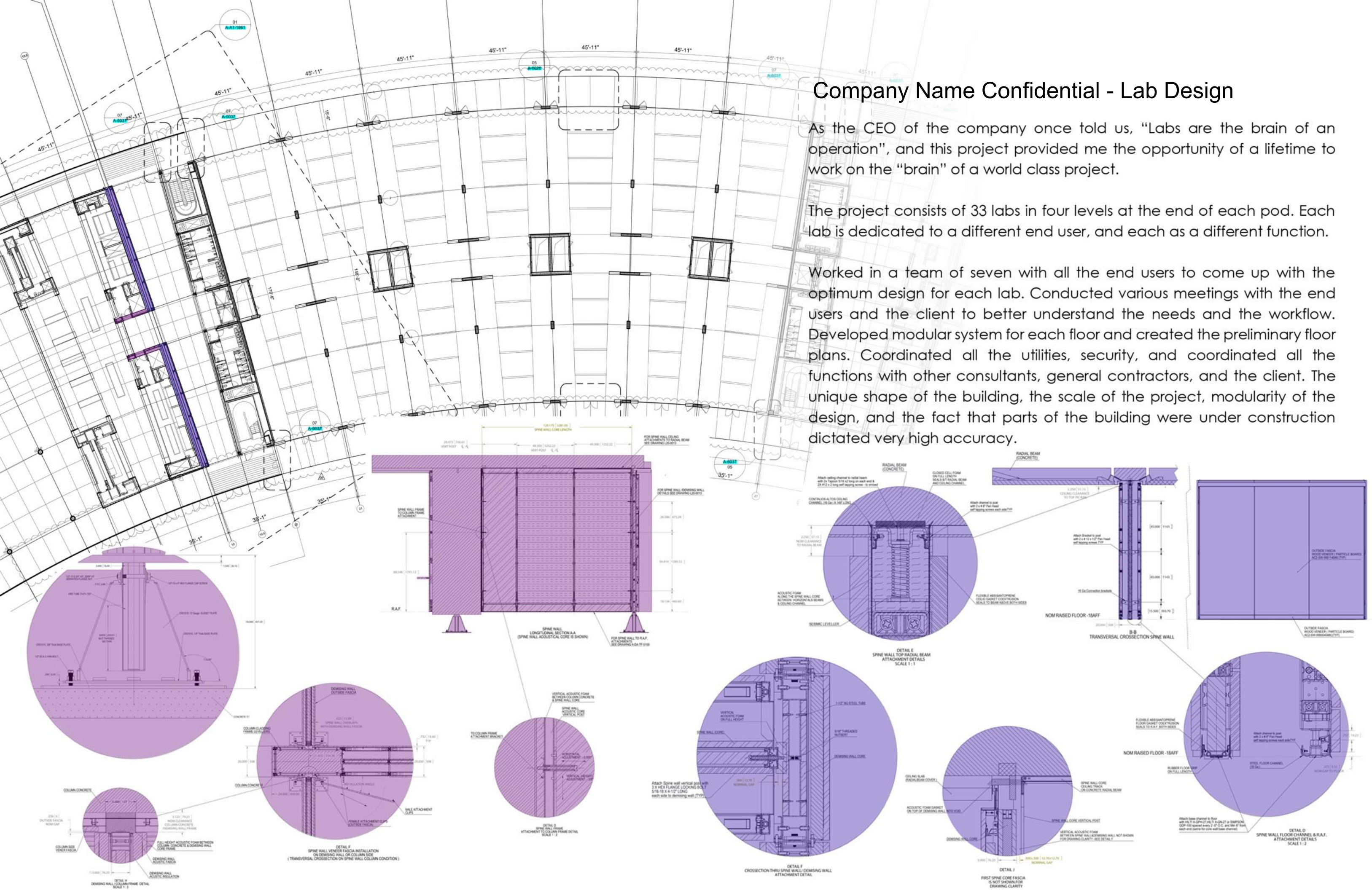


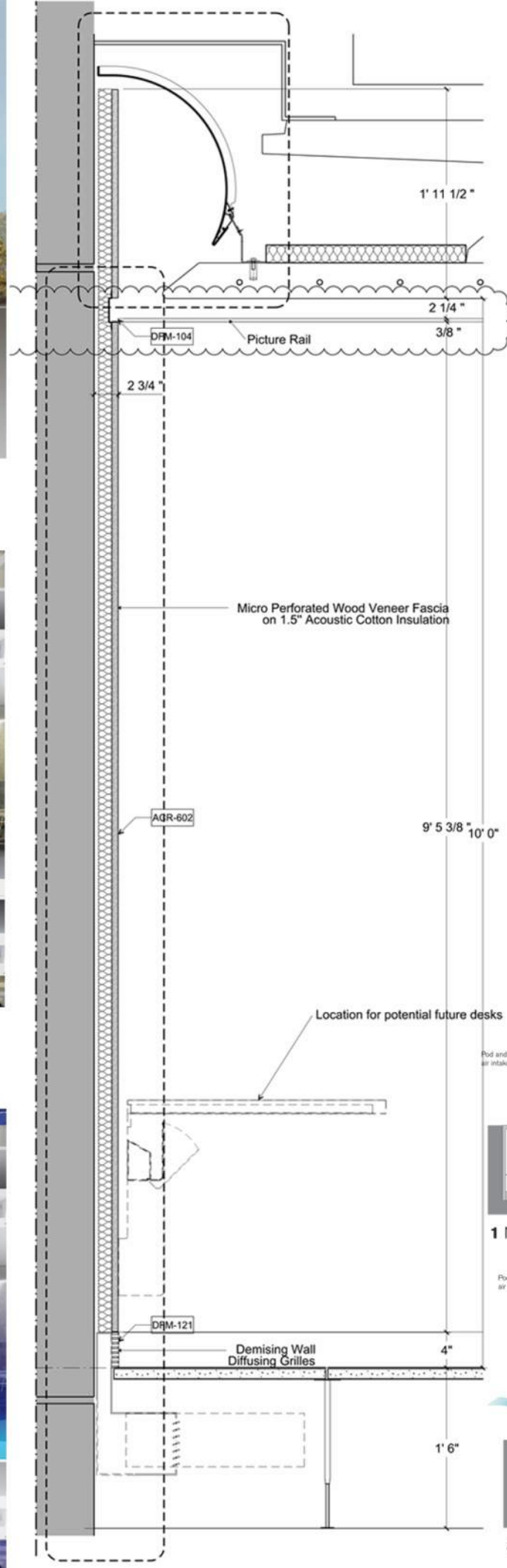
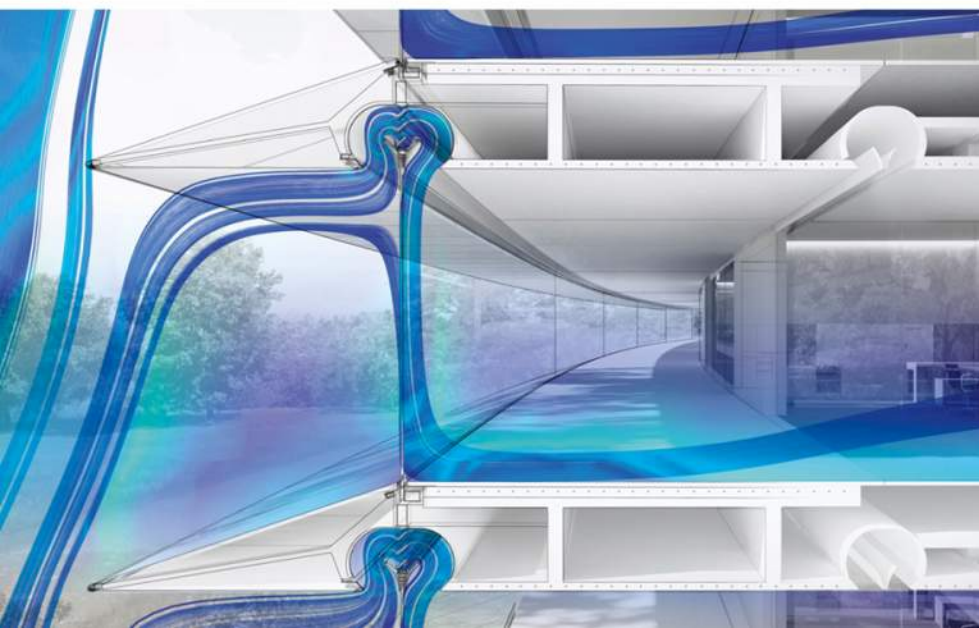
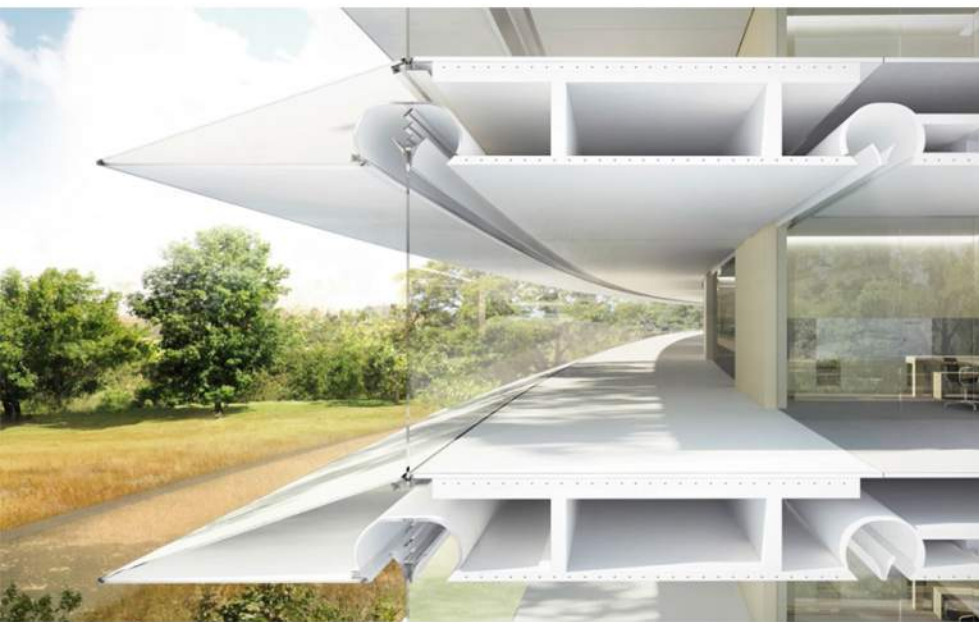
Company Name Confidential - Lab Design

As the CEO of the company once told us, "Labs are the brain of an operation", and this project provided me the opportunity of a lifetime to work on the "brain" of a world class project.

The project consists of 33 labs in four levels at the end of each pod. Each lab is dedicated to a different end user, and each as a different function.

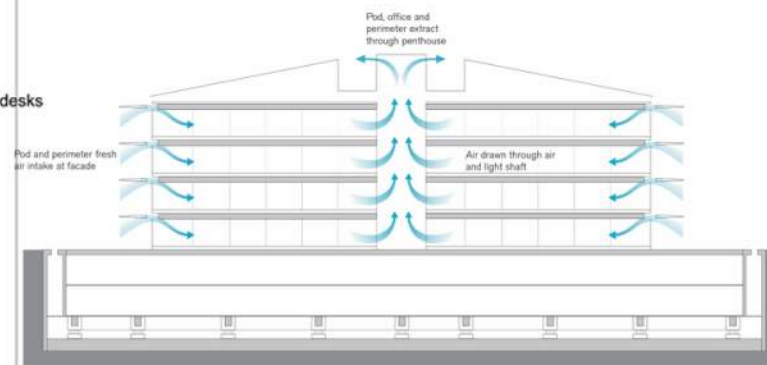
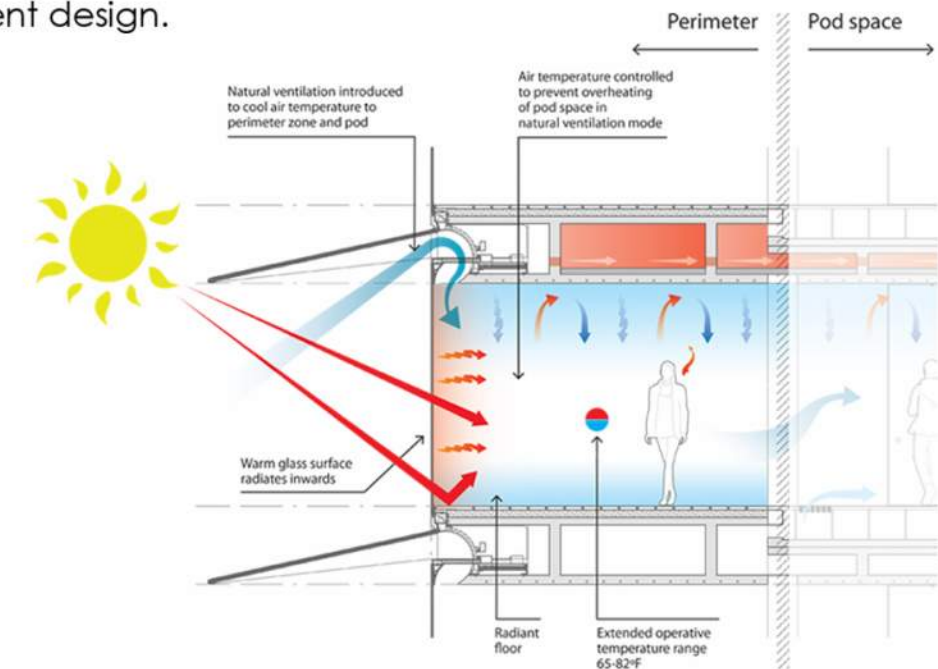
Worked in a team of seven with all the end users to come up with the optimum design for each lab. Conducted various meetings with the end users and the client to better understand the needs and the workflow. Developed modular system for each floor and created the preliminary floor plans. Coordinated all the utilities, security, and coordinated all the functions with other consultants, general contractors, and the client. The unique shape of the building, the scale of the project, modularity of the design, and the fact that parts of the building were under construction dictated very high accuracy.



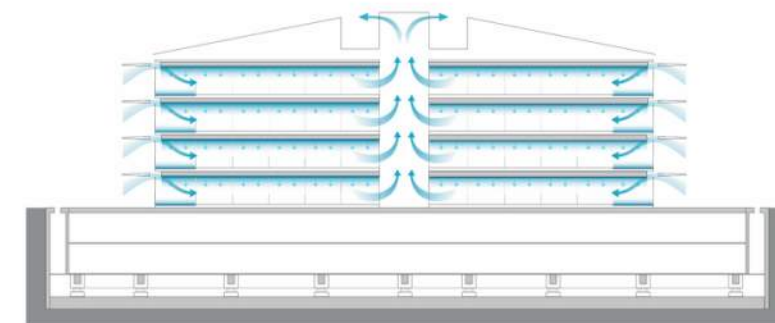


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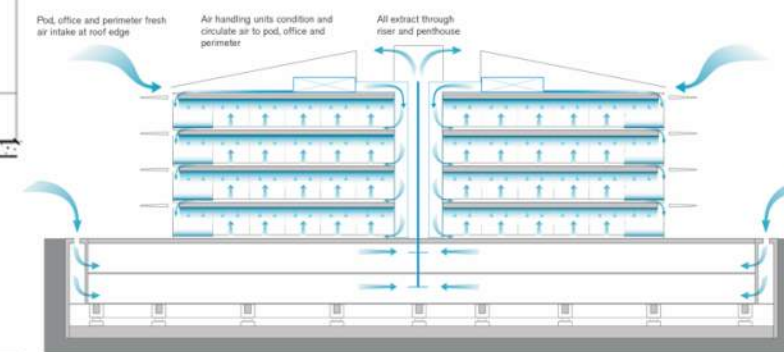
Worked on producing 3D sections to closely study the air flow of the building. Worked in a group of three to coordinate the air flow with the Mechanical engineering consultant. The building works with 100% renewable energy system, and it is a net-zero building. The heating and cooling of the building heavily relies on natural ventilation. The design of the interior ceiling parts that conduct the air flow were a collaboration between architectural and mechanical team that pleased the client with their sleek and efficient design.



1 Natural Ventilation + Thermal Mass



2 Natural Ventilation + Activated Thermal Mass (Radiant Slab)



3 Mechanical Ventilation + Activated Thermal Mass (Radiant Slab)



4 Additional systems for high load spaces