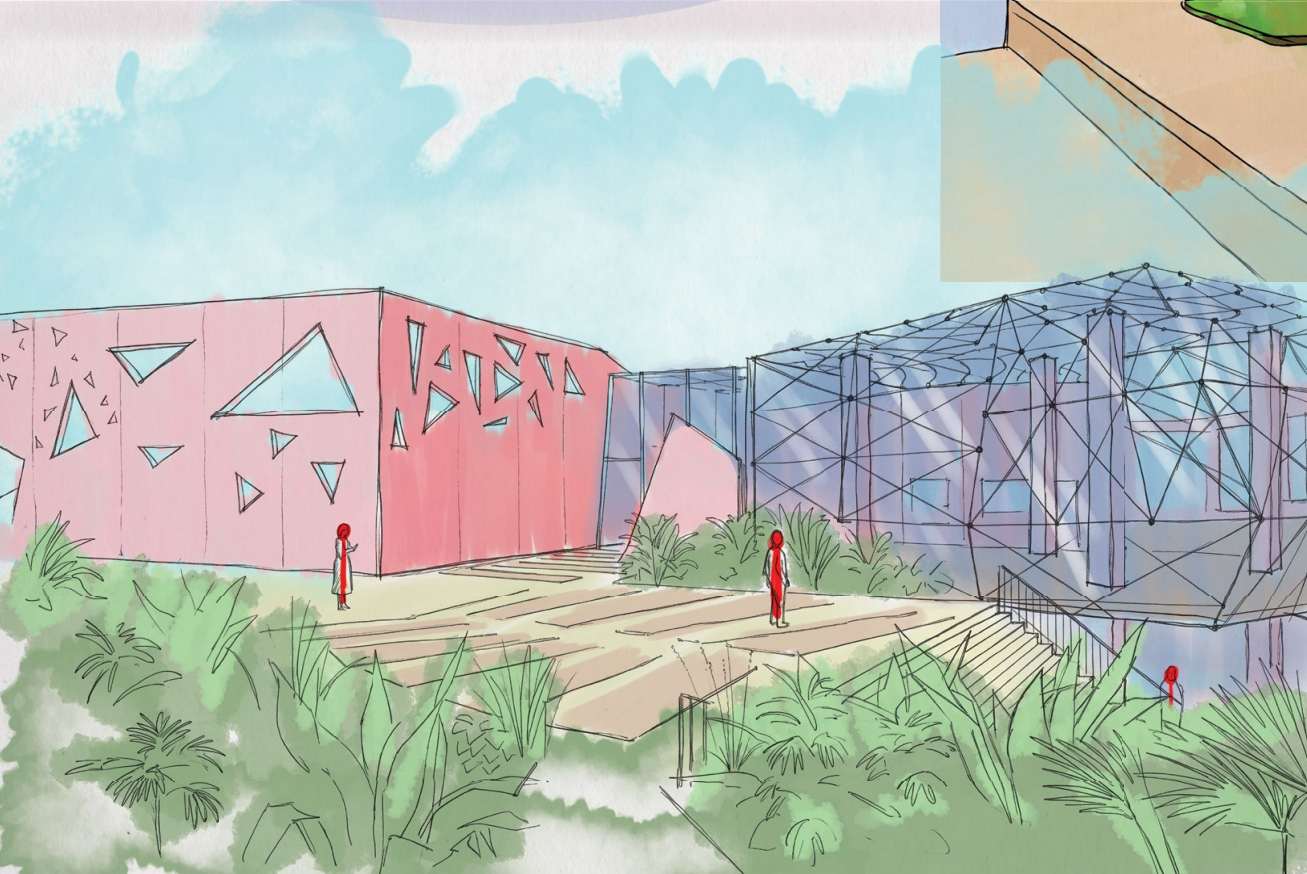
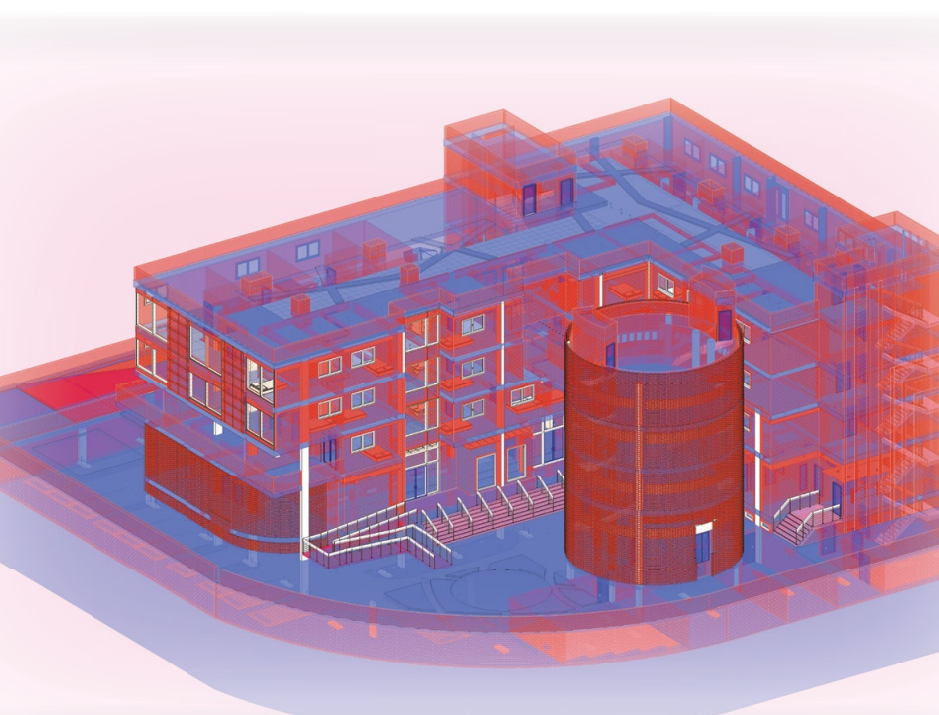




Portfolio Jonathan

2022-2026



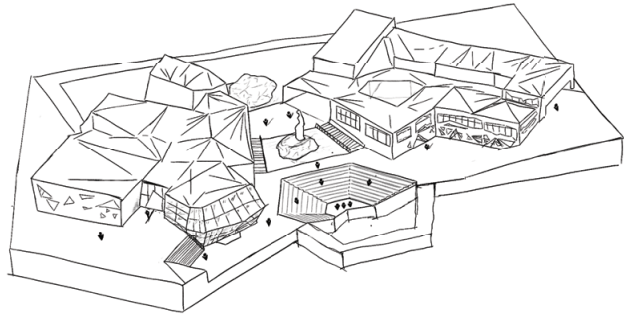
About Me

I'm Jonathan, an architecture student at Helwan University specialising in Sustainable Architecture and Urban Design. I'm drawn to the space where design decisions meet real construction — where coordination across disciplines actually matters and a drawing becomes a building.

Over the past two summers I've worked across three sites in Egypt, from the Central Bank of Egypt headquarters in the New Administrative Capital to residential and commercial projects in New Cairo and a North Coast development. That site experience shapes how I design: I think about execution, not just concept

Education	University	Bachelor of Sustainable Architecture and Urban Design Capital University Faculty of Fine Arts,Egypt. Oct 2022- Expected Graduation Jul 2027
	BIM & Drafting	Autodesk Revit , Autodesk Autocad, Autodesk Naviswork
	Design &Modeling	Rhino,Grasshopper, Sketch-up , Autodesk Forma
Softwares	Visualization	Adobe Photoshop, Illustrator, Indesign, D5, AI-Assisted rendering workflows
	2026	Architecture Engineering Intern- Alexandria Construction Company-TMG BIM Technical Engineering Intern- Omega Consultants
	2025	Site Engineering Intern- Orascom Construction Collaborative BIM&MEP Coordination - Revit, ACC
	2024	Research & Conceptual Design - Multi Sensory Immersive Exhibitions in Culture Center
Experience & Academics	2026	Lighting Design Competition , Light Upon Light
	2025	Eco Educational Centre In Stryi - C40 Cities Reinventing Cities, La Esperanza/El Señor-C40 Cities del Árbol
Competitions	2024	Caring Cities Workshop - Bauhaus University Weimar Collaboration, Cairo World Urban Forum 12 Volunteer, Cairo
Workshops		
Interests		Model Making, Photography, 3D Printing, Aviation Simulators, watercoloring

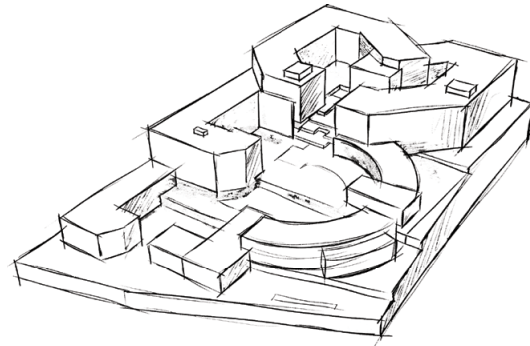
TABLE OF CONTENT



1.

Hepatia's Stone

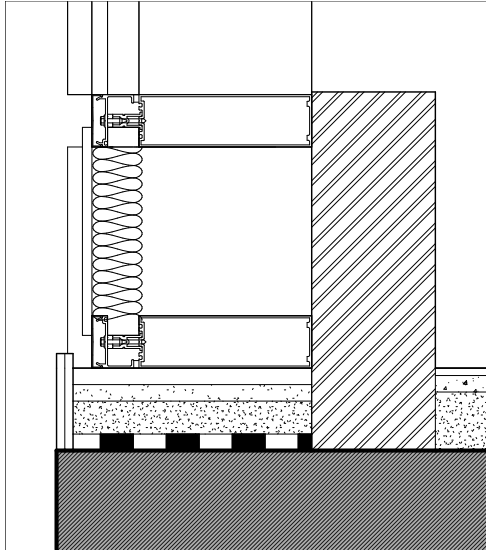
Cultural Museum



2.

Central Zayed

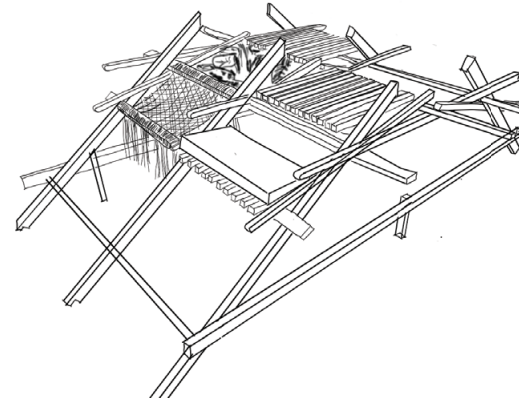
Business Commercial
Complex



3.

Technical Drawings

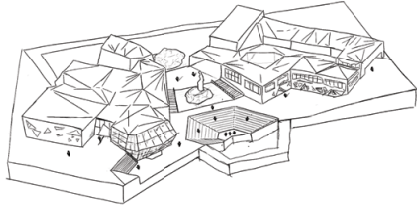
Execution Drawings
And MEP Systems



4.

Miscellaneous

1:1 Scale Maquettes
and Sketches



HEPATIA'S STONE

TYPE: Cultural Meuseum

LOCATION: Alexandria ,Egypt

SITE AREA: 11,000m

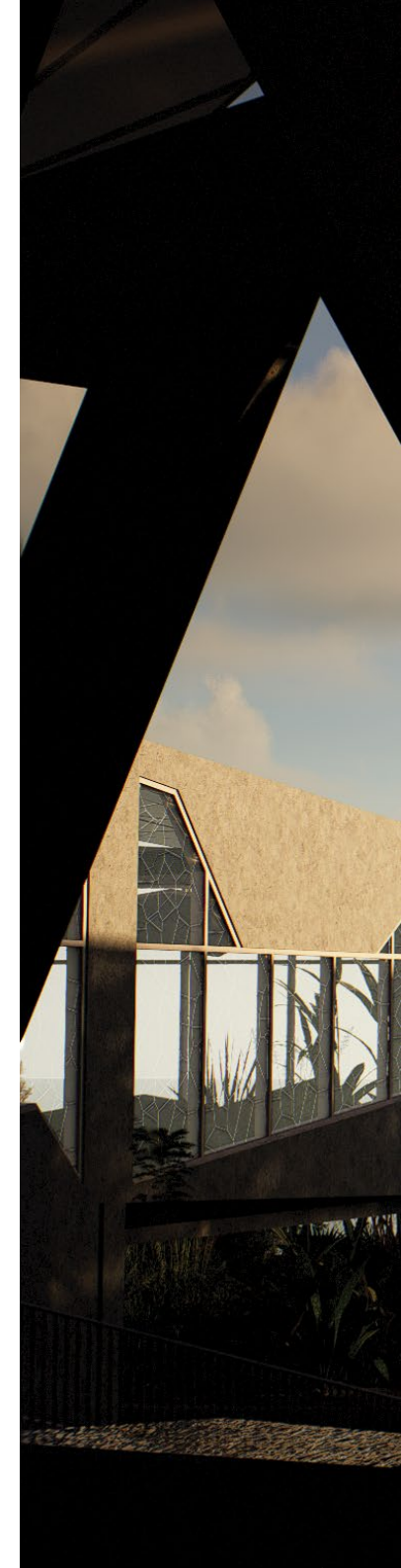
YEAR: 2025

This museum was conceived as a memorial to Hypatia, honoring her immense intellectual contributions and preserving her legacy.

Inspired by the deconstructivist language of the Jewish Museum in Berlin, the design reflects the injustice of her death amid political conflict.

The visitor journey follows a symbolic pathway leading to Hypatia standing on a broken stone by the sea, while a second empty stone represents the idea that there are no true winners in war.

Openings and spatial framing were designed so that the sky is only fully visible from specific points, creating a sense of tension, reflection, and discovery. Triangles were used as the museum's main architectural element to express Hypatia's Egyptian-Greek identity.





Site Location



Egypt

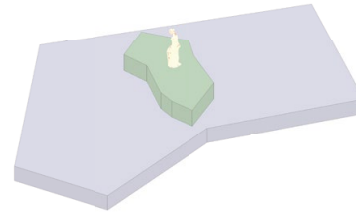


Alexandria



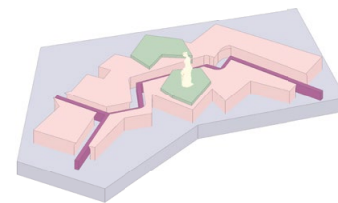
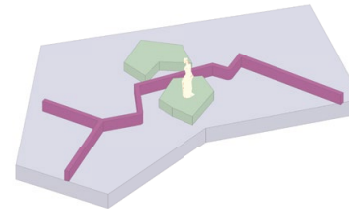
Qaitbay Citadel

Form Generation



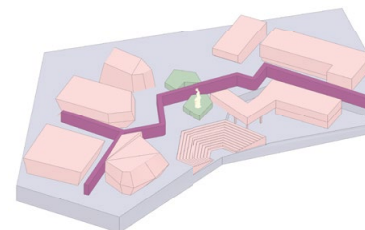
1st stage ,Hepatia's Stone

2nd stage, The Pathway Circulation Breaking the Stone

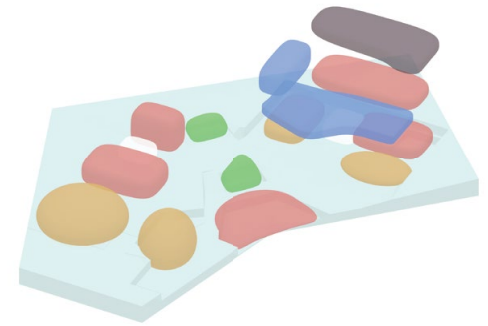


3rd stage, Massing Outline From the Circulation

4th Stage, Refining The different Masses and Zoning



Zoning



Commercial and attraction points

Recreational and residential

Exhibitions and services

Exploded diagram



Bazar Shop



Exhibition gallery



Library



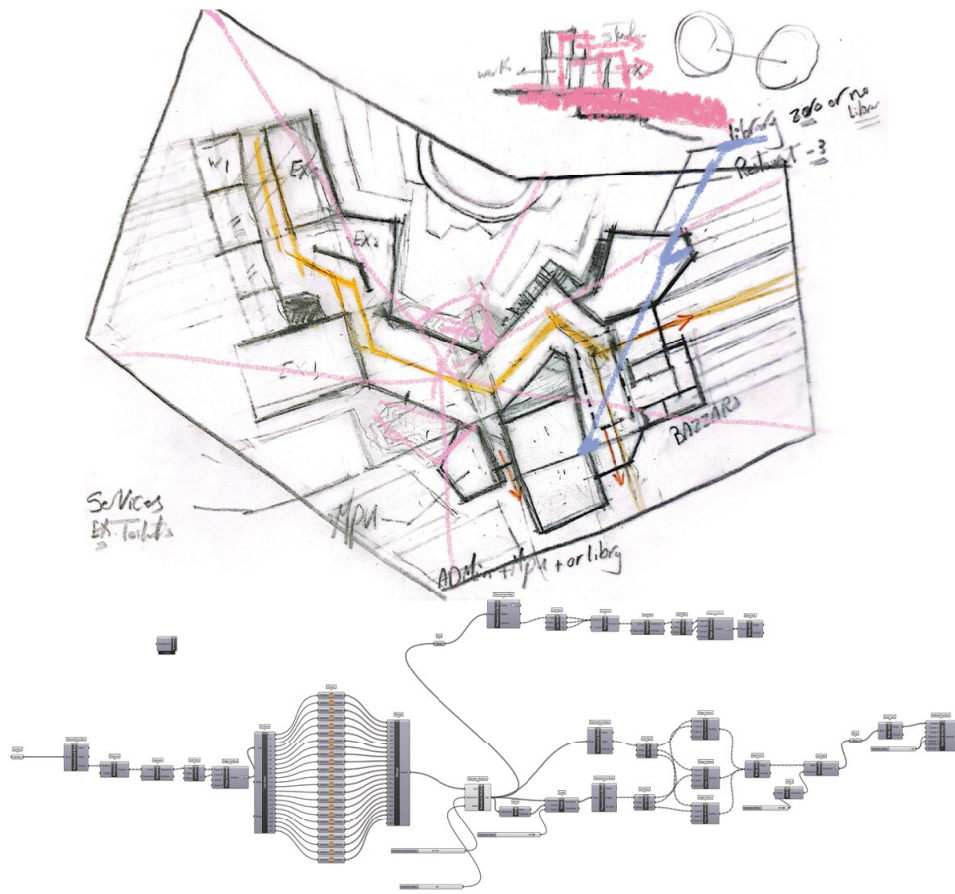
MPU

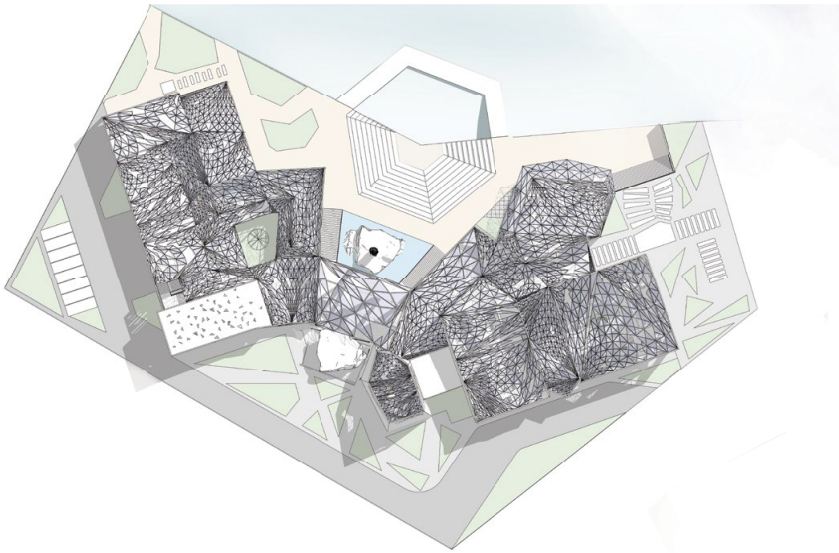


Workshops

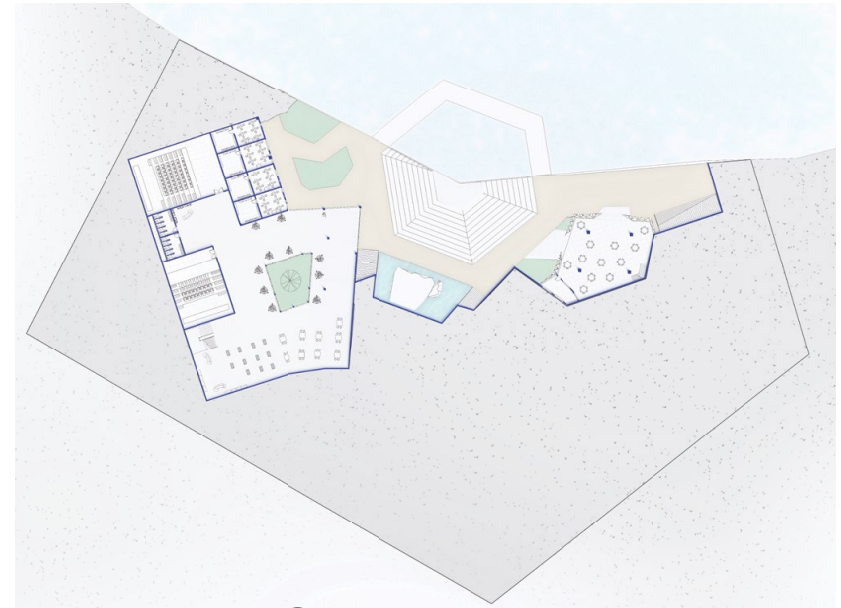


Residential





Layout



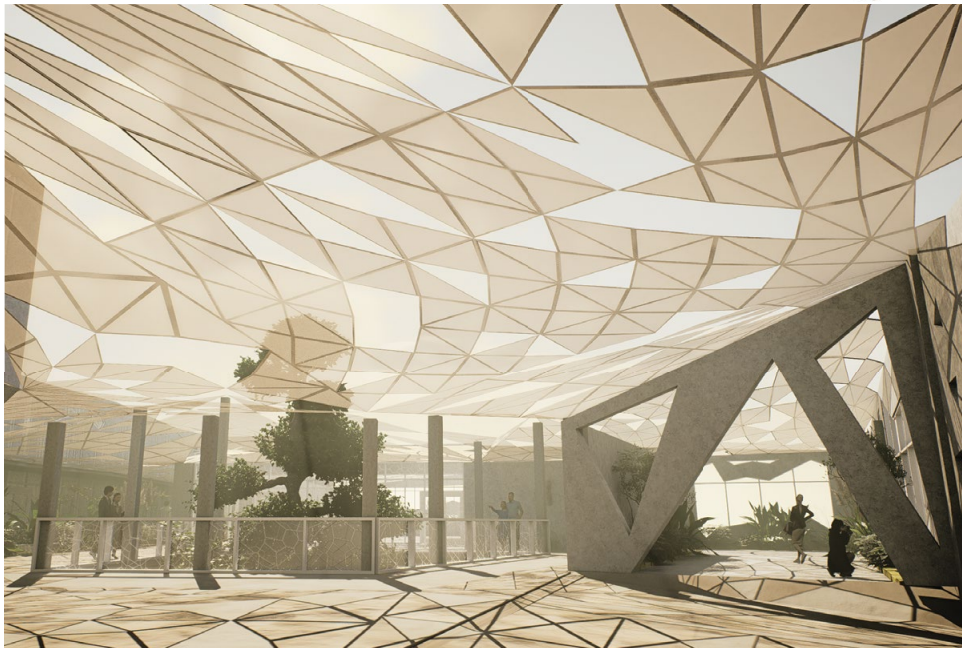
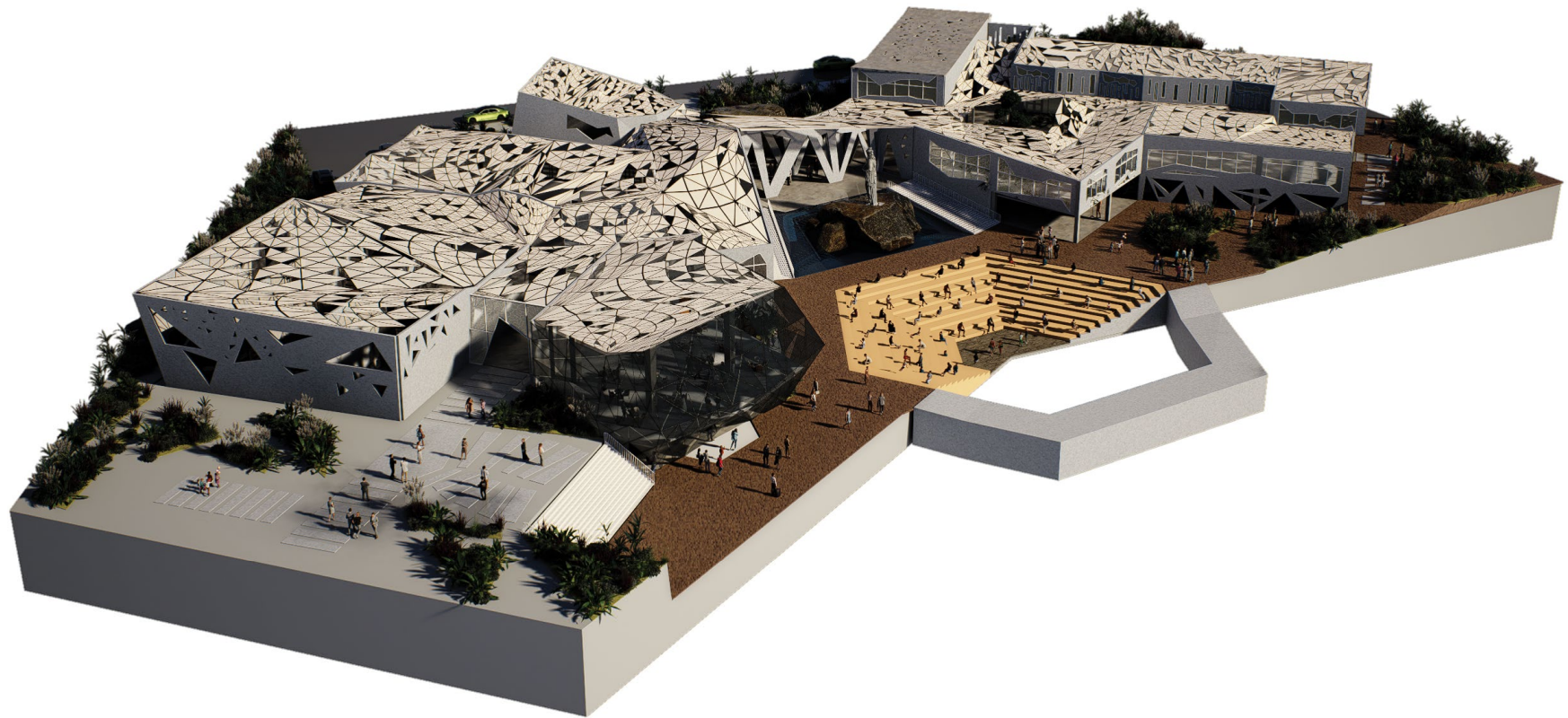
Sea-level plan

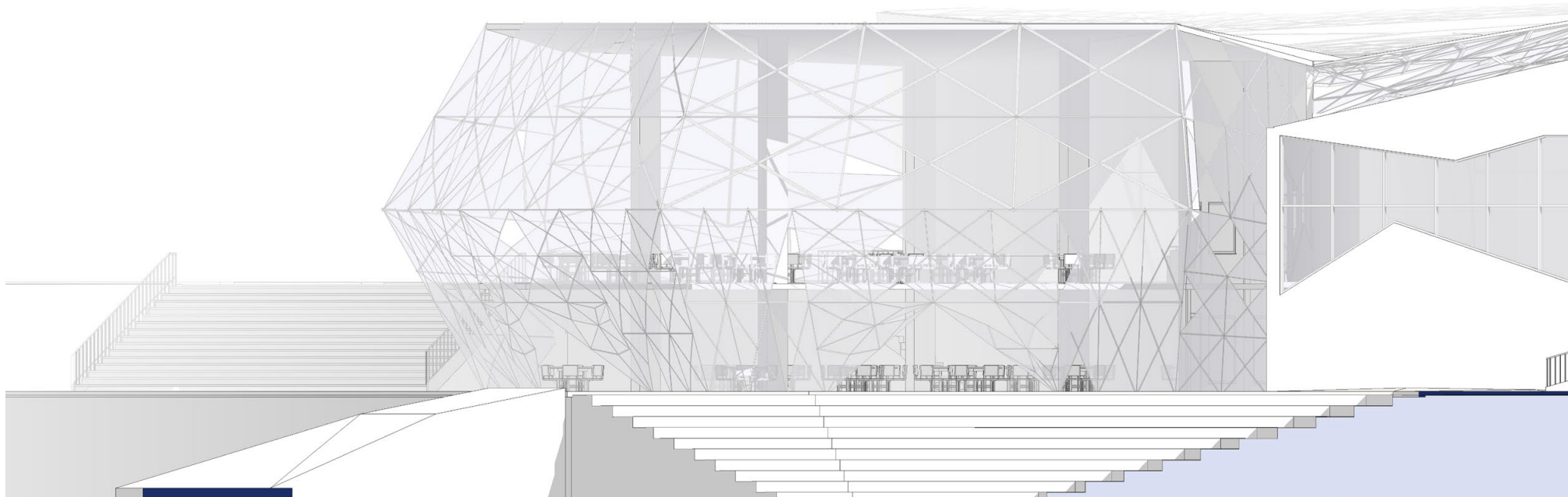
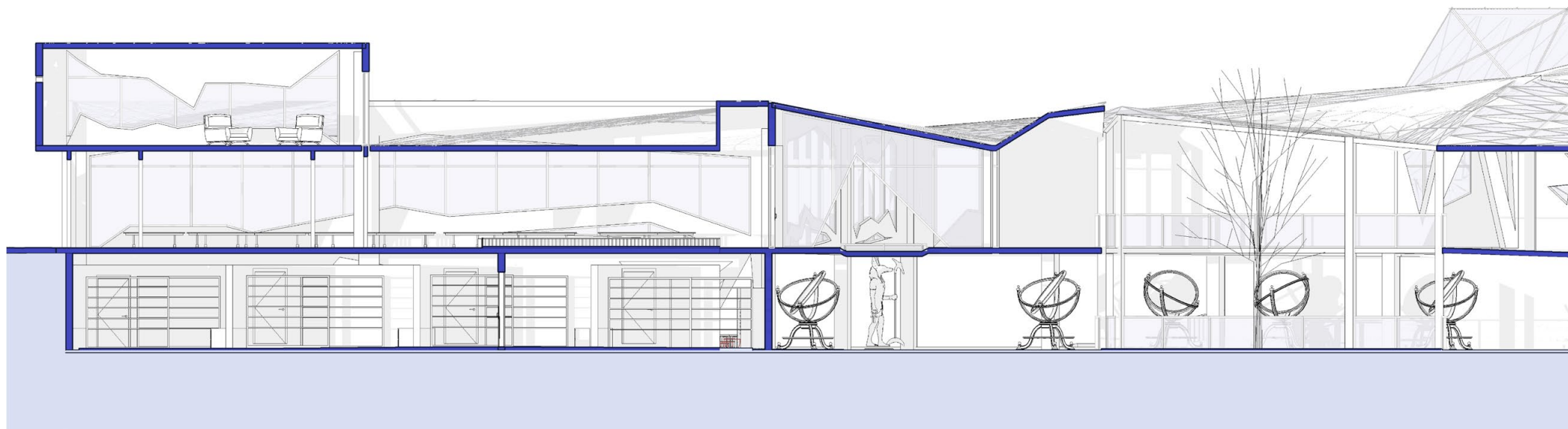


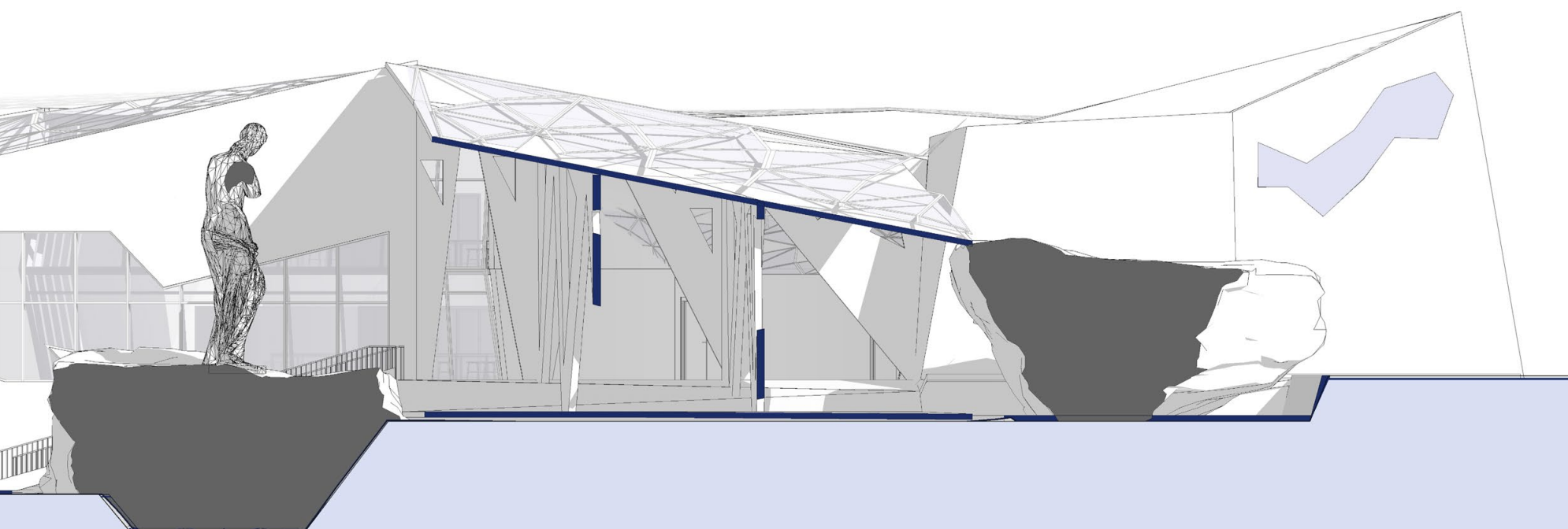
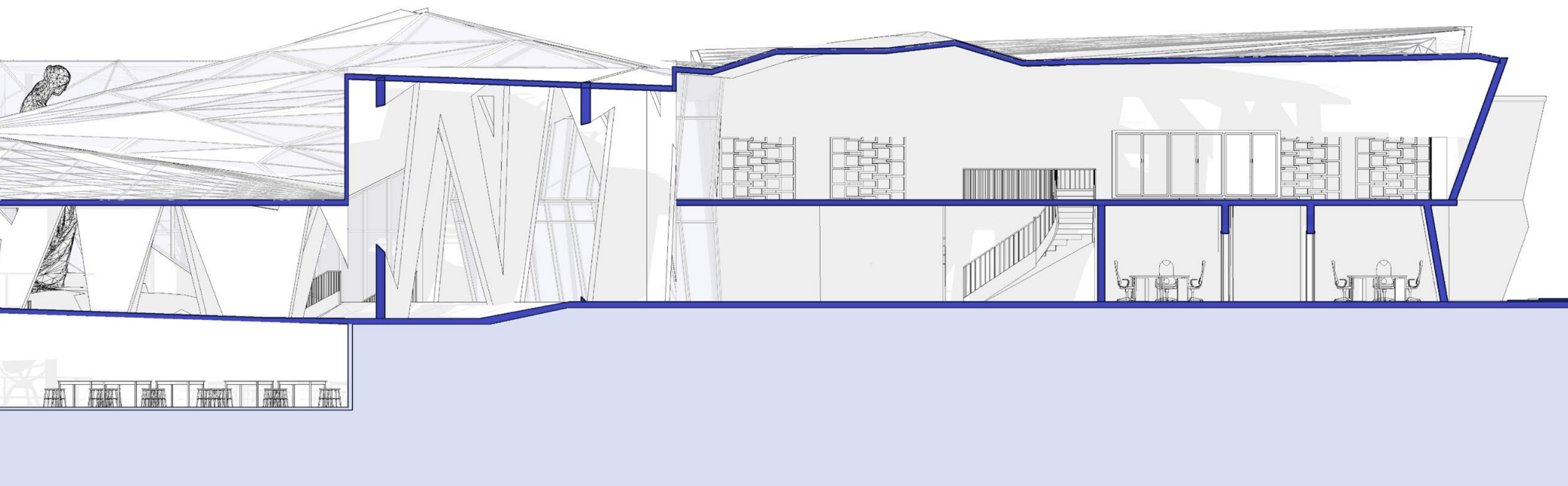
Master-Plan

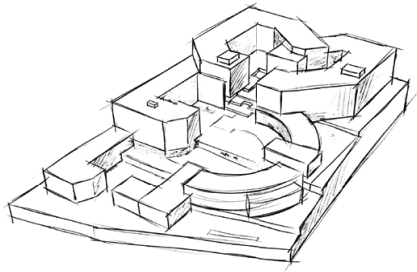


Upper-Level Plan









CENTRAL ZAYED

TYPE: Business Commercial Complex

LOCATION: West Cairo, Egypt

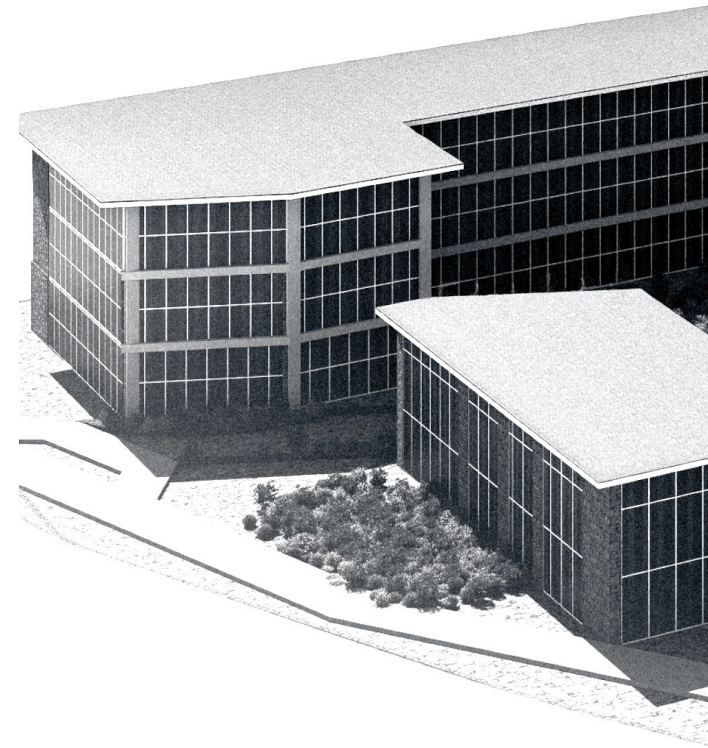
SITE AREA: 33,365m²

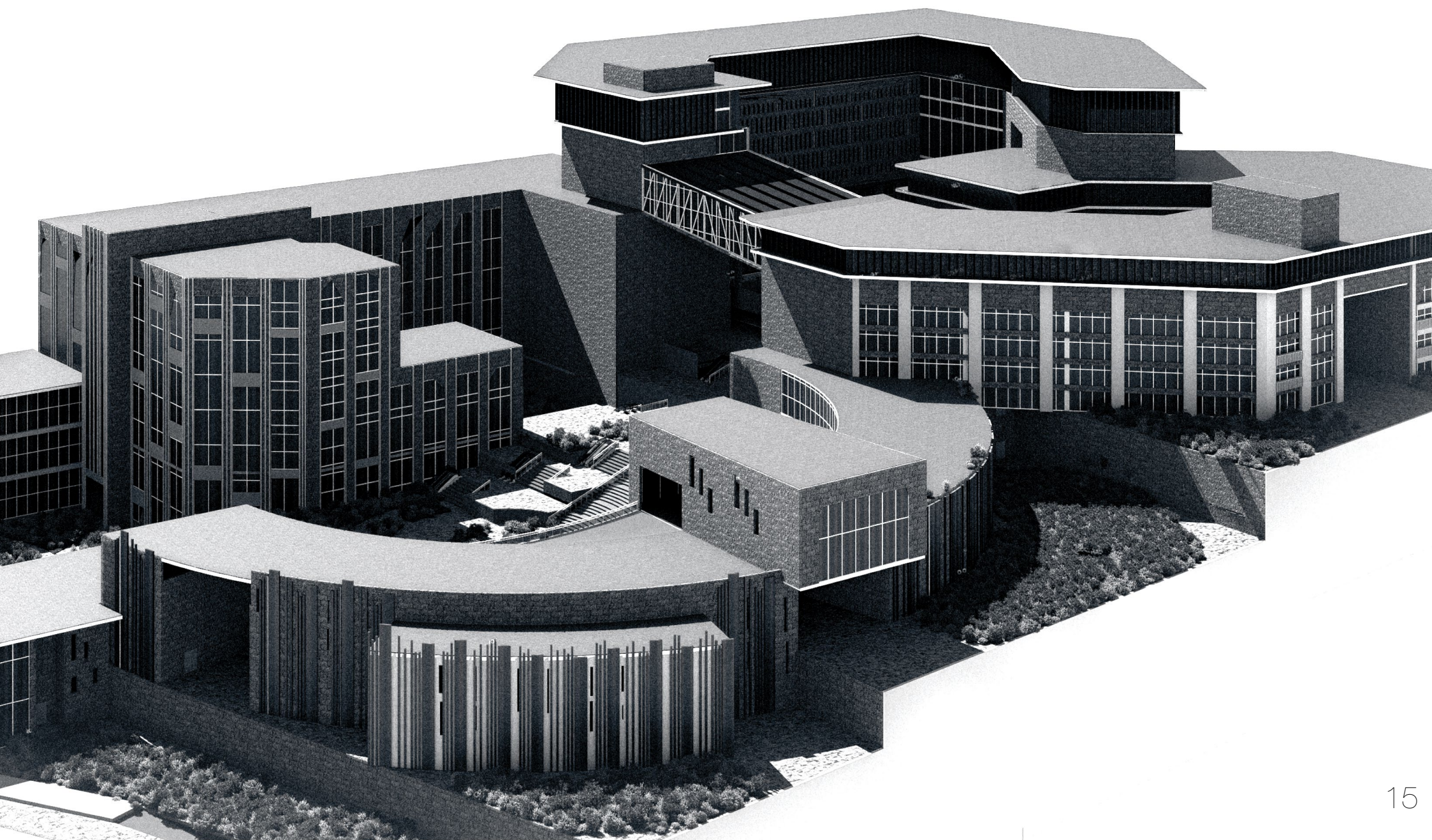
YEAR: 2025

This project presented a significant challenge due to its complex topography and the need to integrate multiple zones without disrupting their individual functions.

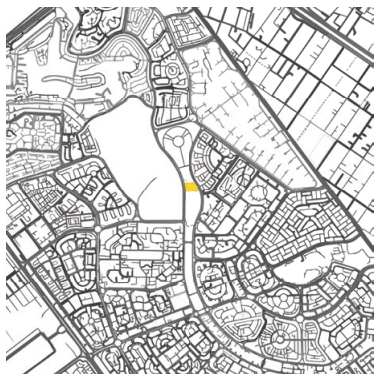
The design provides clear and accessible circulation for all users, including people with mobility challenges, while establishing separate entrances for the commercial, business, and cultural zones.

A large parking scheme was also incorporated in accordance with local codes and site requirements.



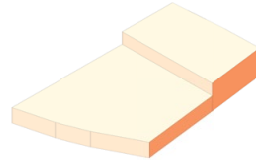


Site Location



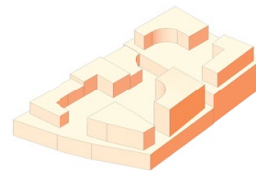
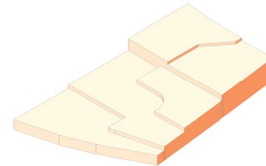
Sheikh

Form Generation



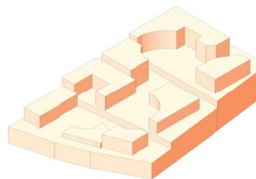
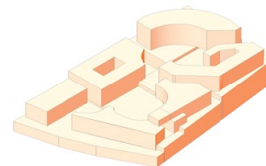
1st stage , Initial Land topography study.

2nd stage, Breaking topography levels for easy access.



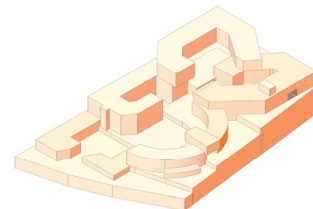
3rd stage, Main access circulation and zoning.

4th Stage, Enclosing different zonings for better inclusivity.

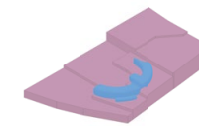
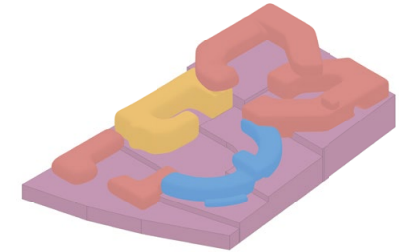


5th Stage, Developing masses and connections.

6th Stage, Final Form Completing the architectural composition.



Zoning



Cultural zone

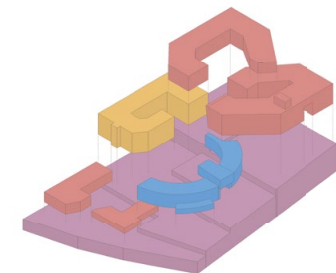


Commercial zone



Business zone

Exploded diagram



Cultural building

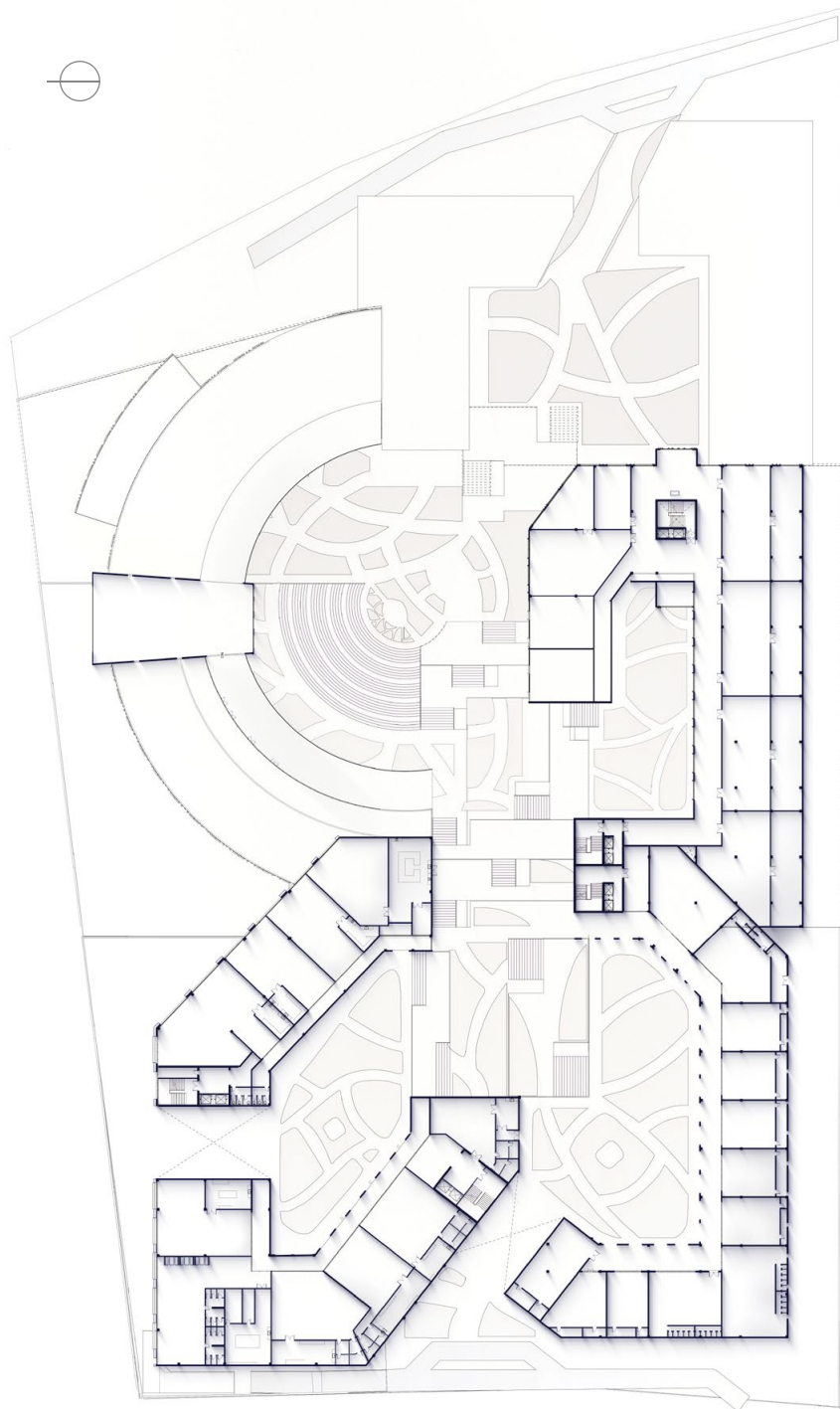


Commercial building

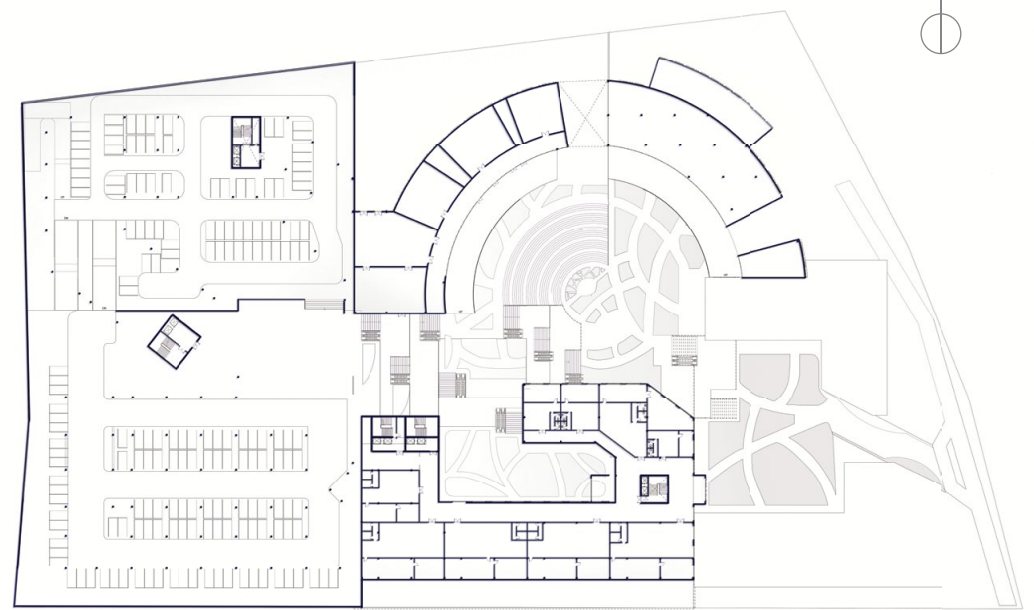


Business building

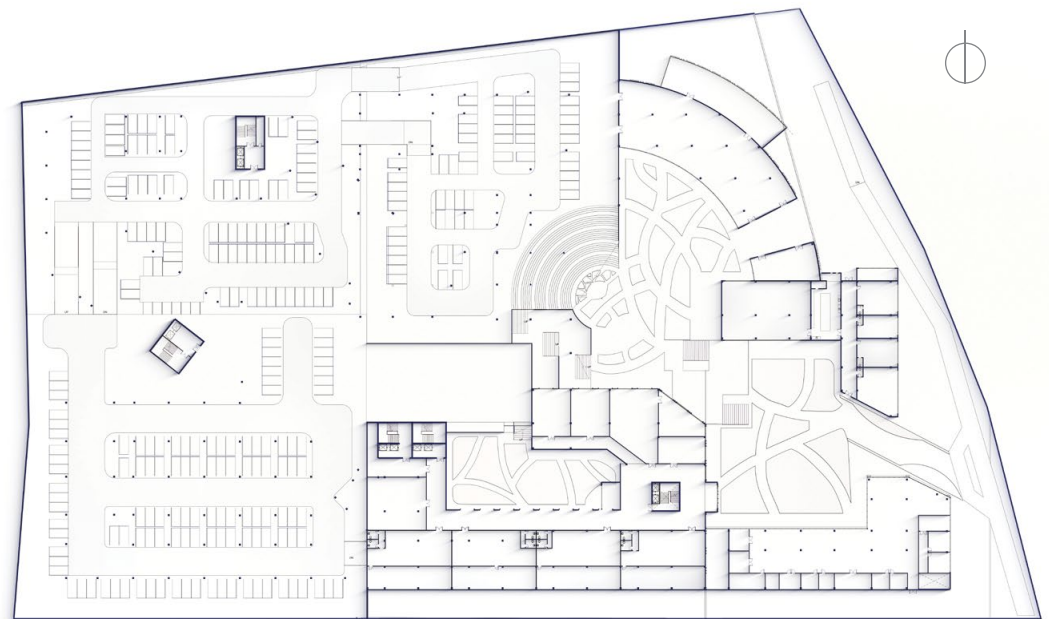




level 3 Floor plan



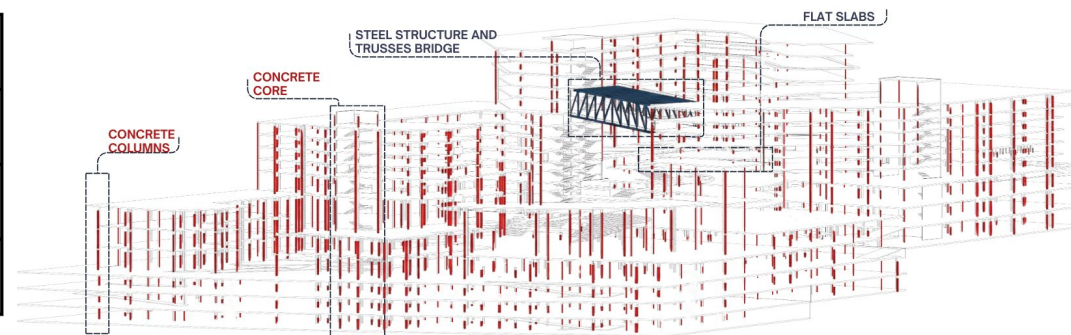
level 2 Floor plan



level 1 Floor plan



Orientation	Energy Yield
South façade	$\approx 77 \text{ kWh/m}^2\cdot\text{yr}$
East / West façade	$\approx 57 \text{ kWh/m}^2\cdot\text{yr}$
North façade	$\approx 26 \text{ kWh/m}^2\cdot\text{yr}$

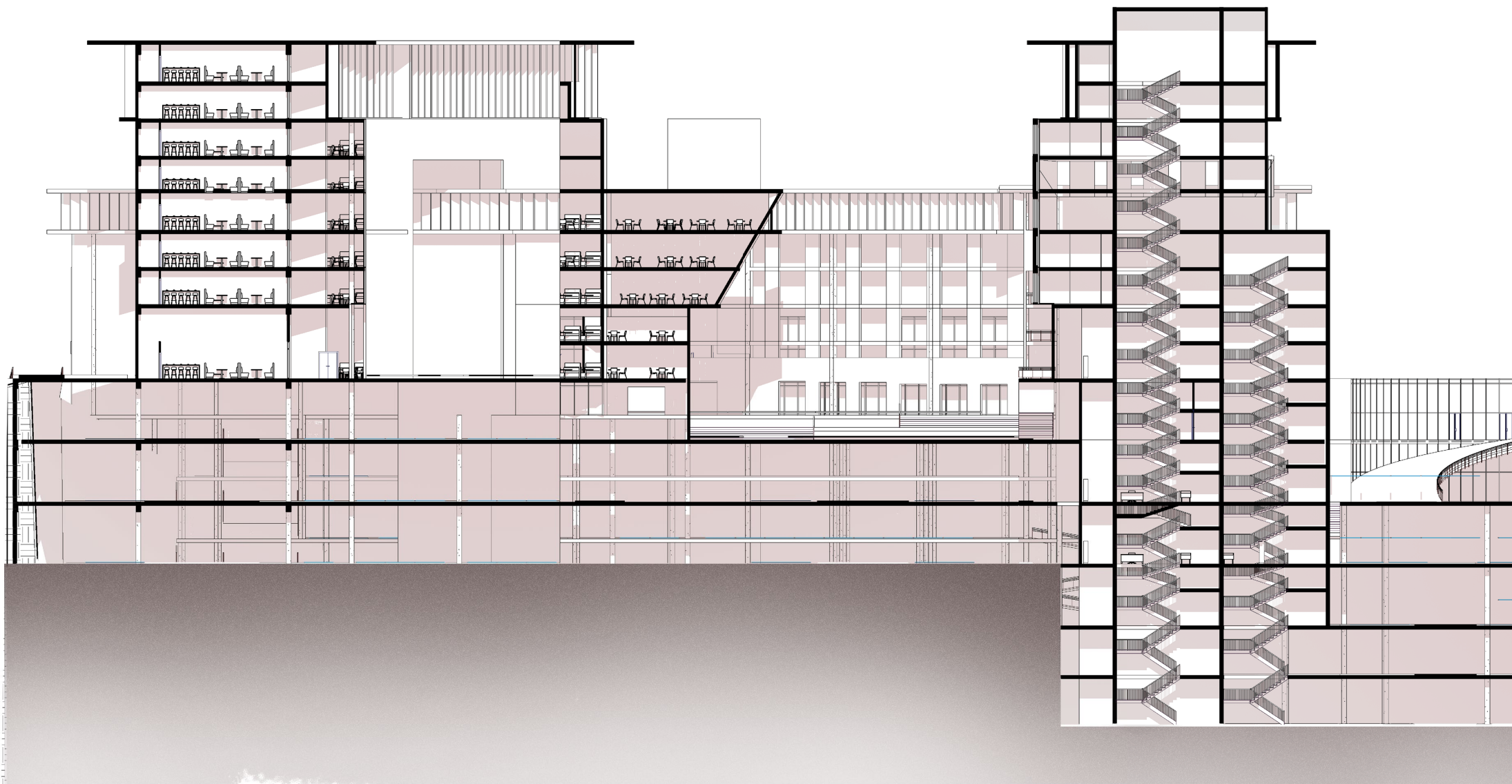


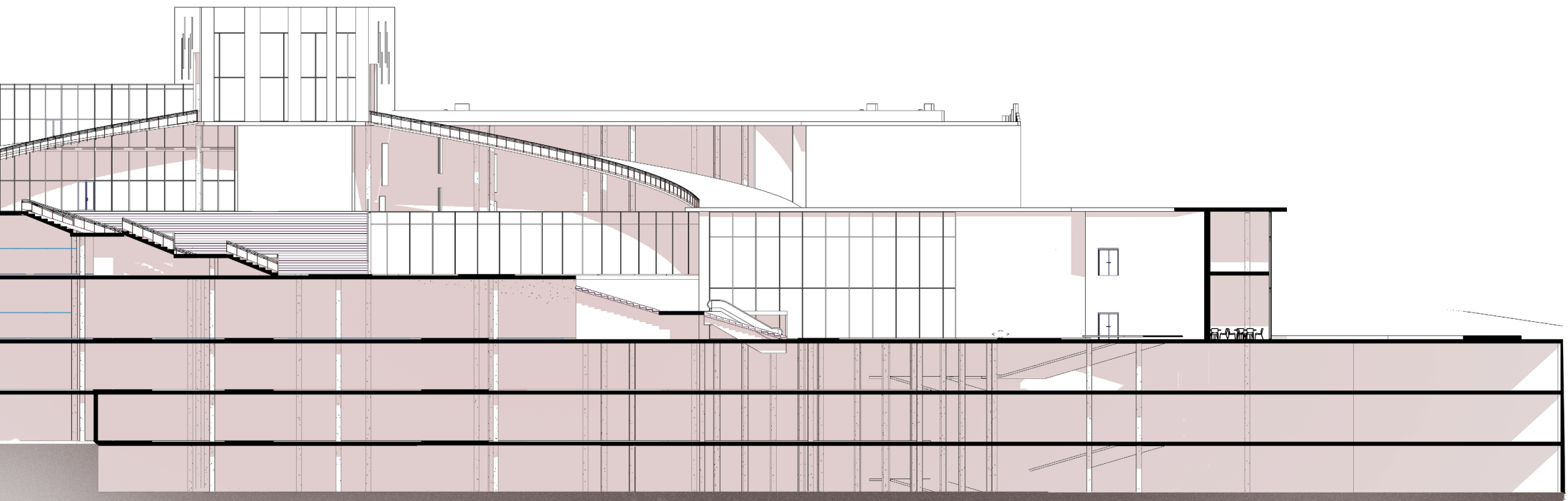
Wall Section: BIPV System

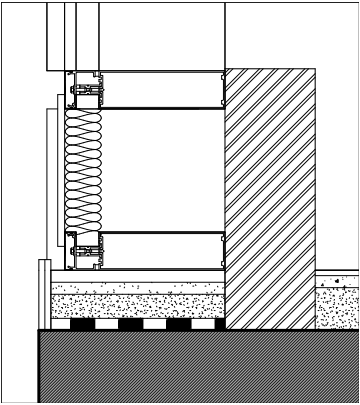
Skeleton Structure



Front Elevation View







TECHNICAL DRAWINGS

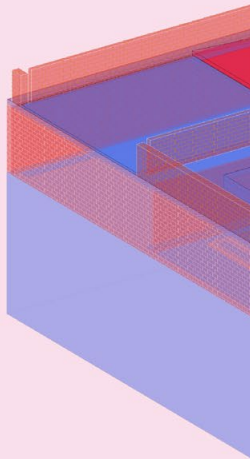
TYPE: Execution, Technical Drawings

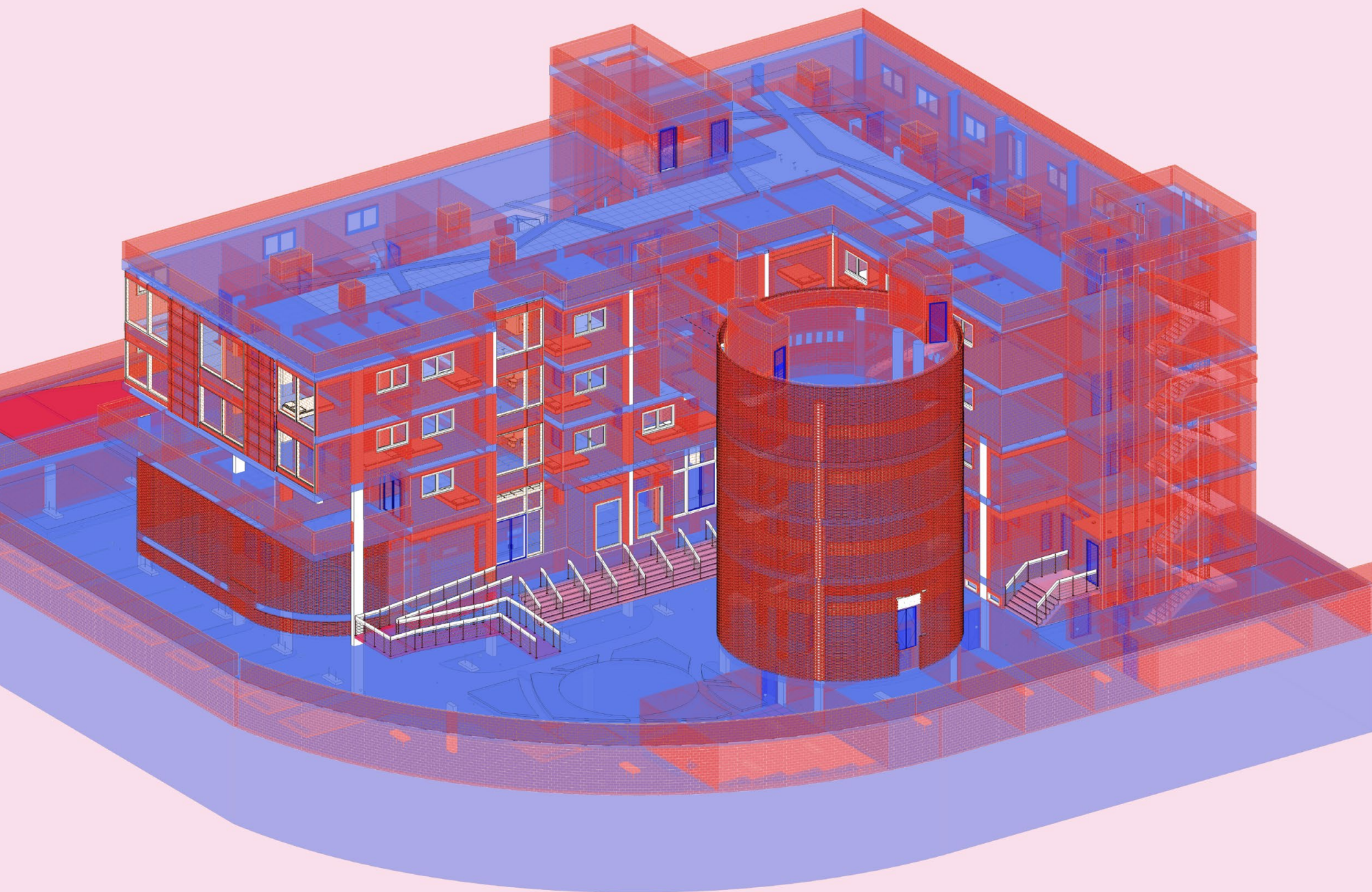
LOCATION: Guatemala City, Guatemala.

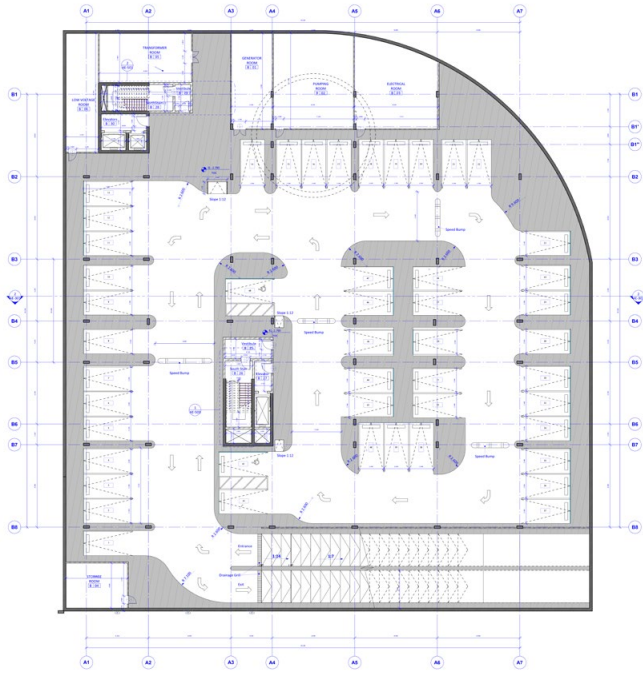
YEAR: 2025

Produced a range of architectural technical drawings in collaboration with team members using BIM workflows in Revit and Autodesk Construction Cloud (ACC).

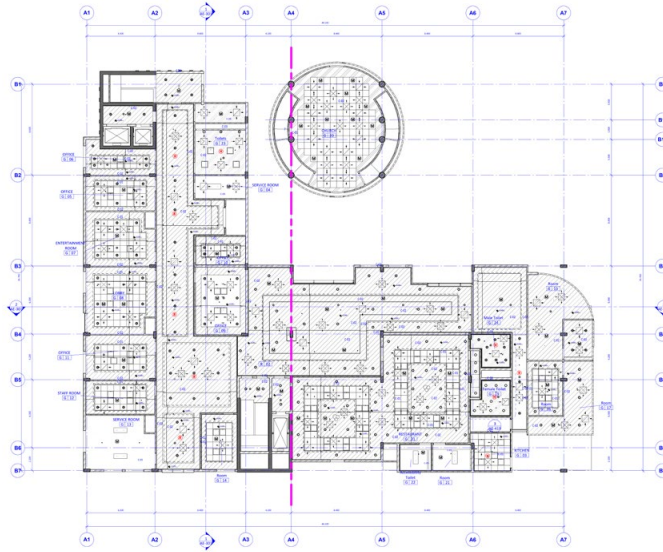
The work involved coordinating with other disciplines, following applicable local building codes, and carrying out clash detection to identify and resolve design conflicts before construction.



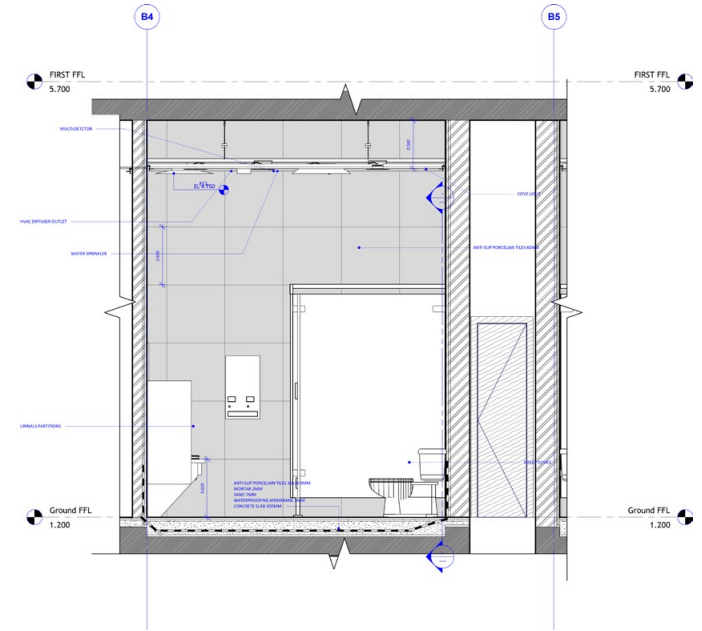




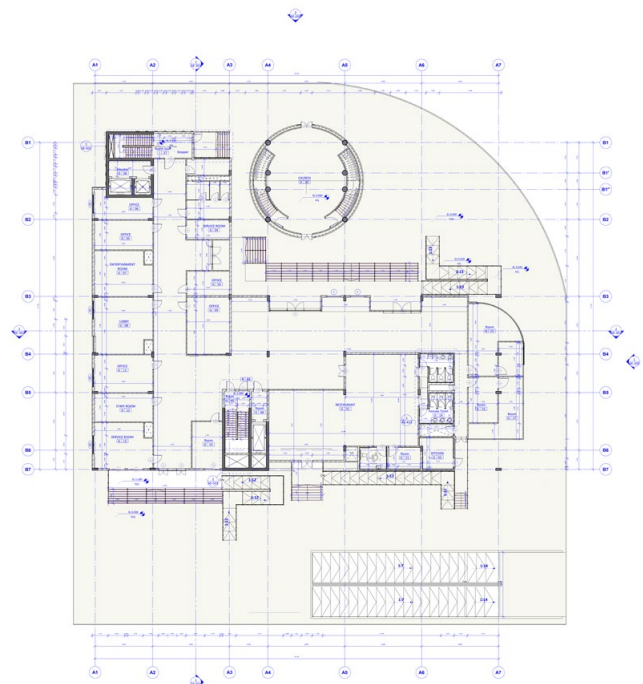
BASSEMENT FLOOR PLAN



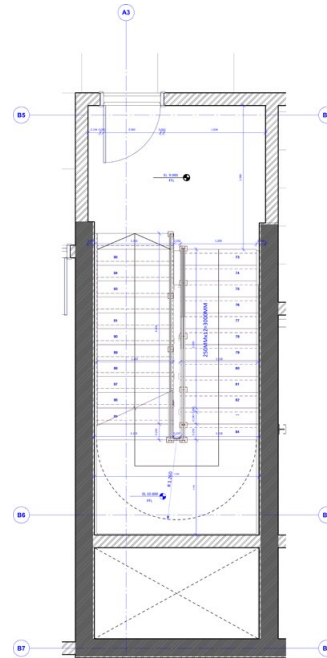
GROUND CEILING PLAN



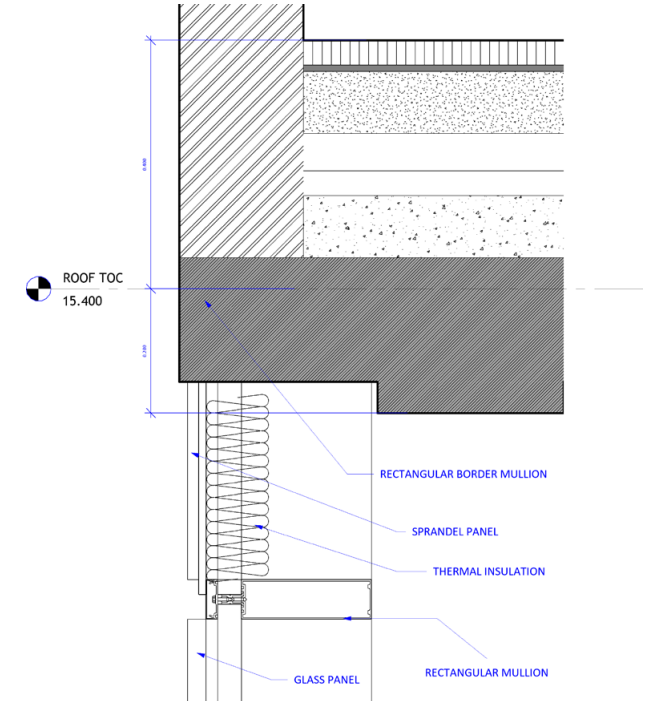
BATHROOM DETAIL SECTION



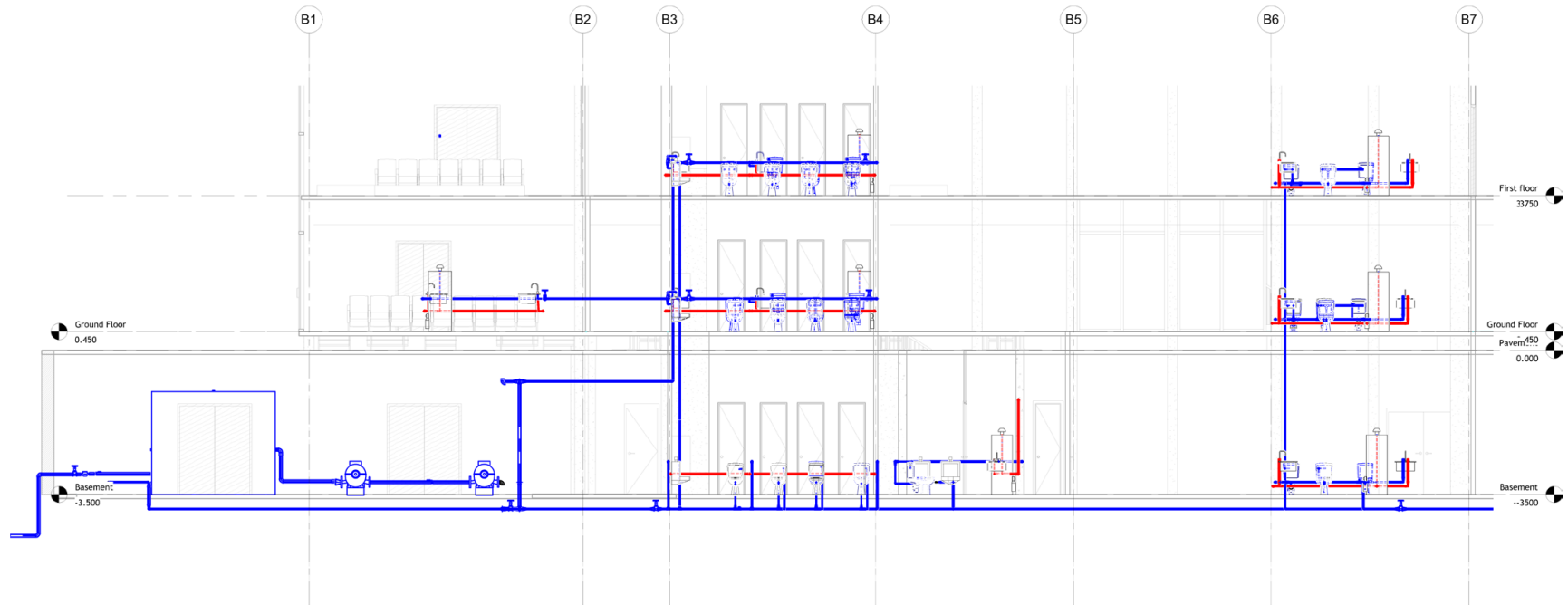
GROUND FLOOR PLAN



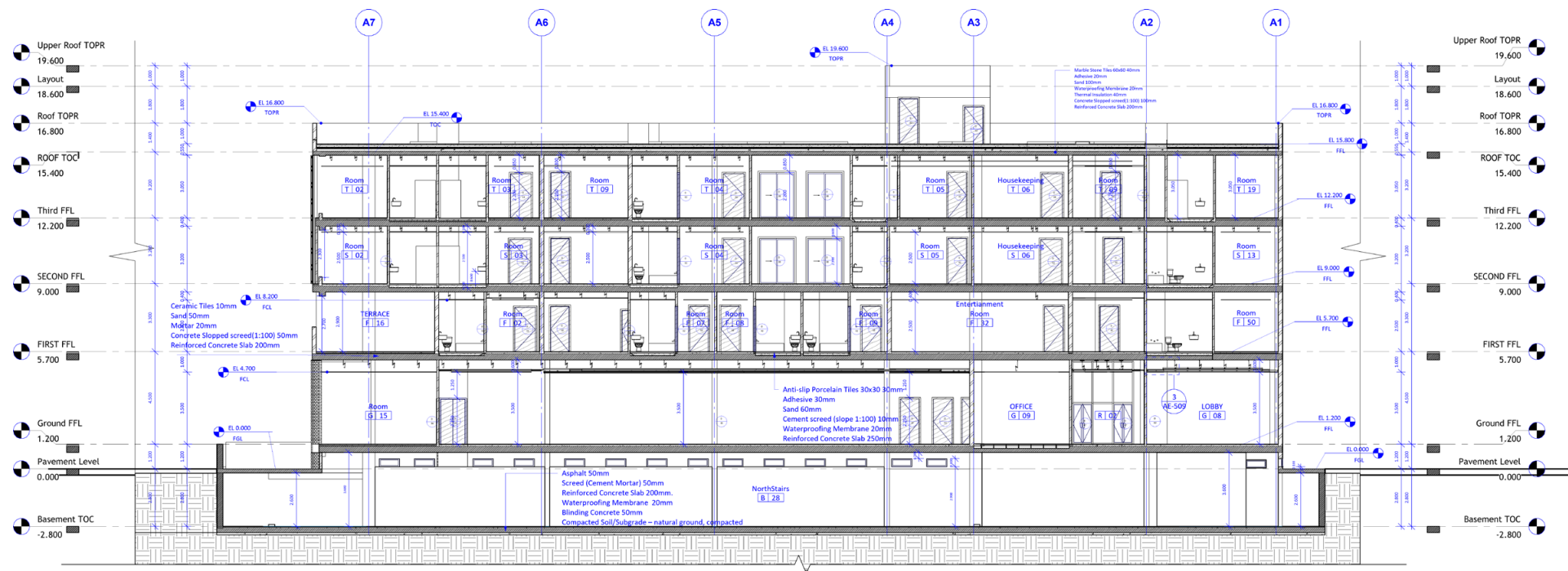
STAIR PLAN DETAIL



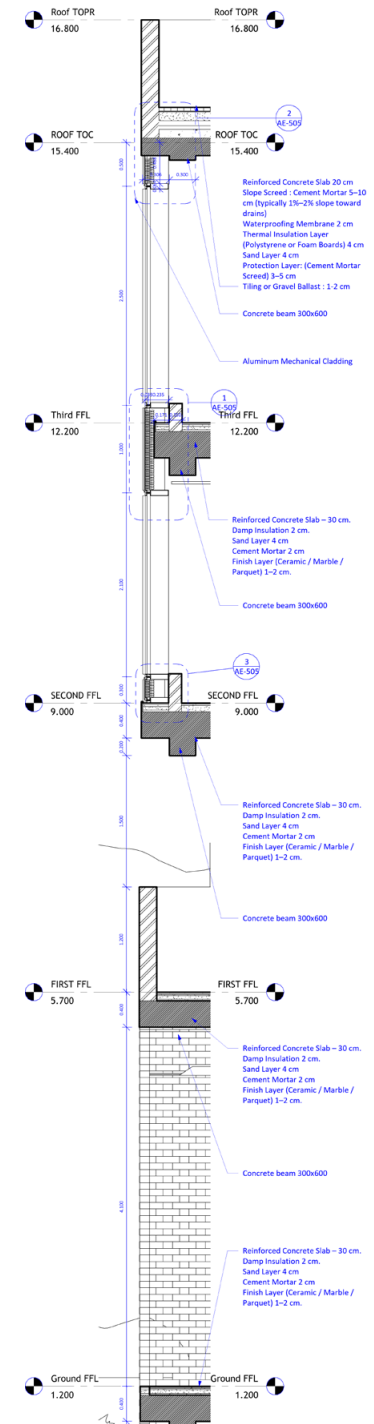
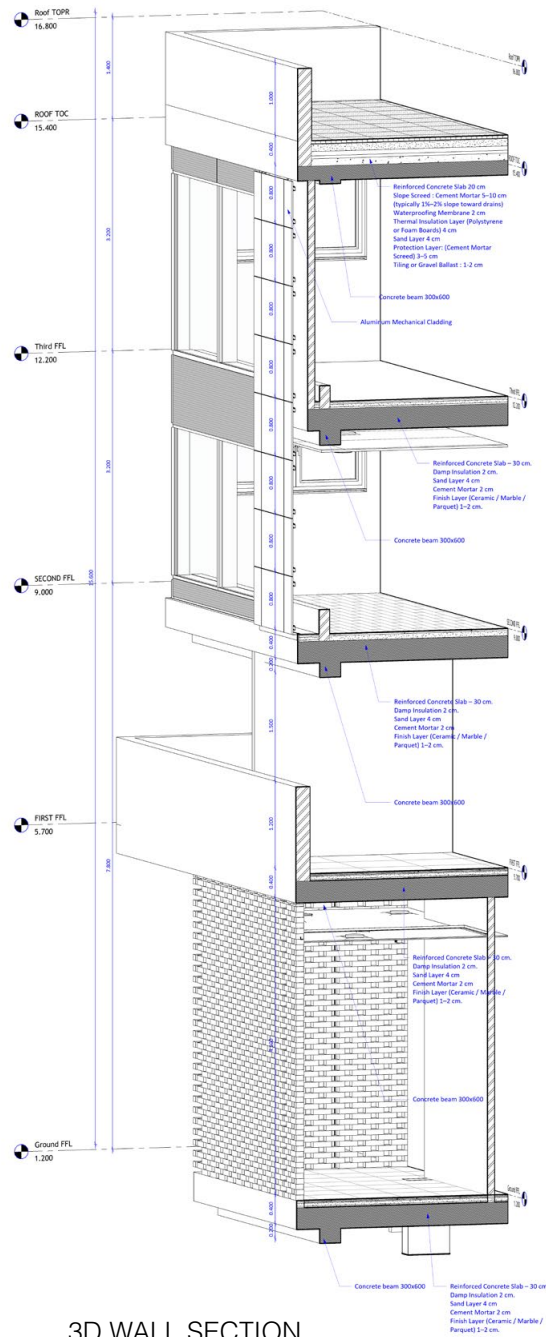
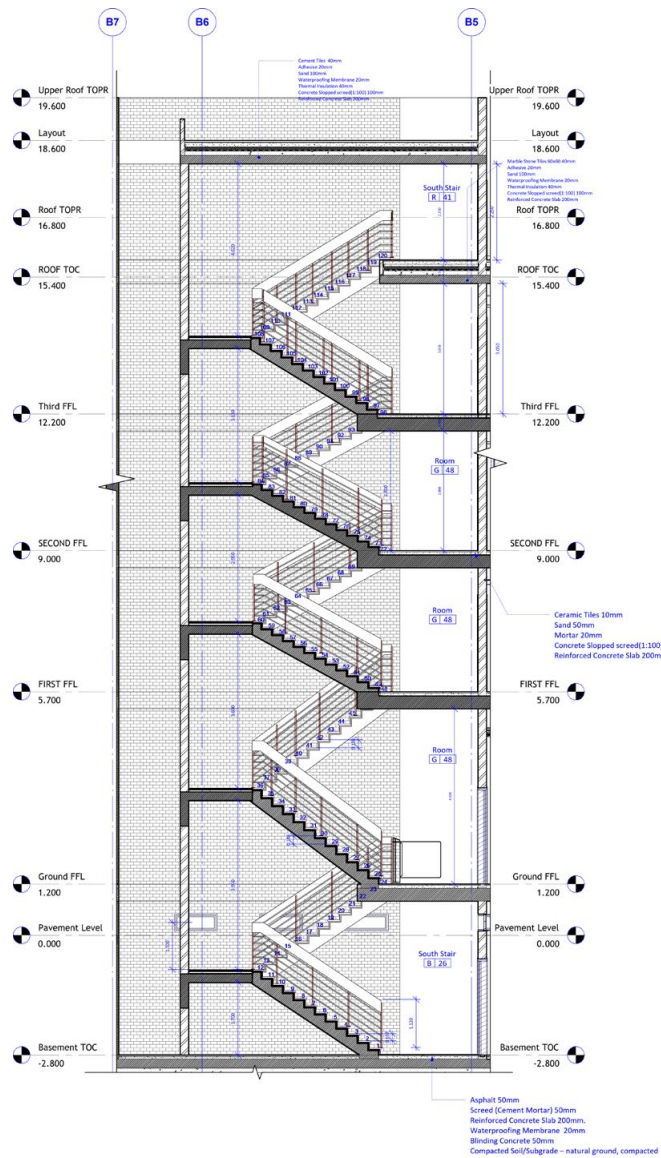
CURTAIN WALL DETAIL SECTION



WATER SUPPLY SECTION



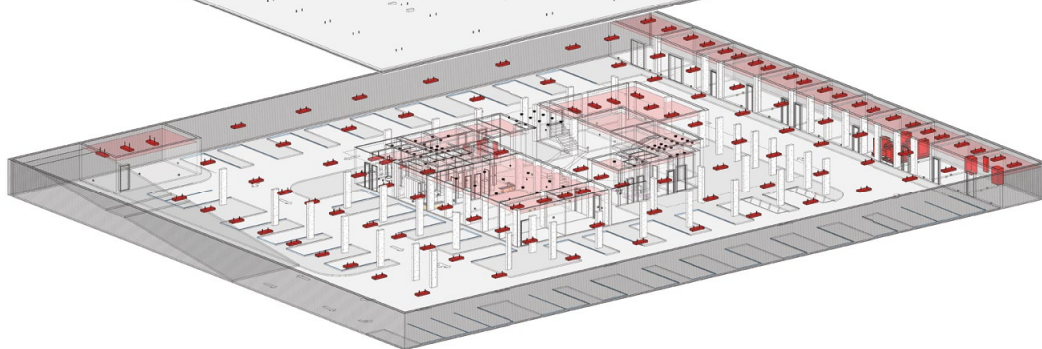
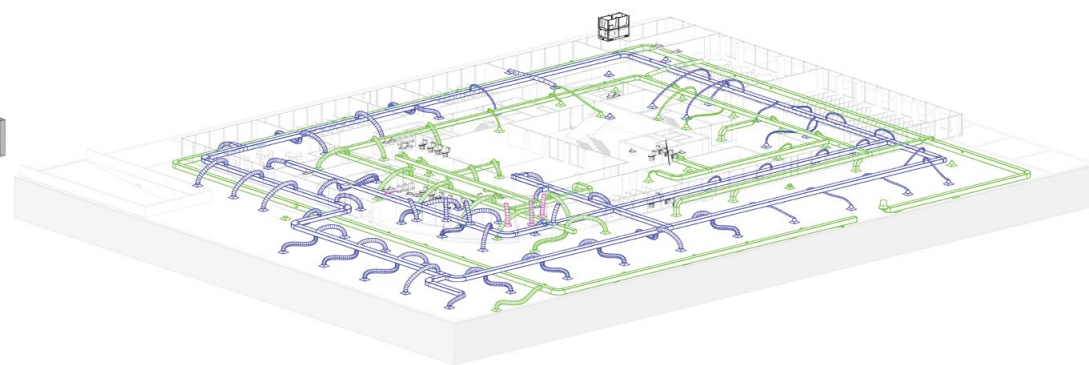
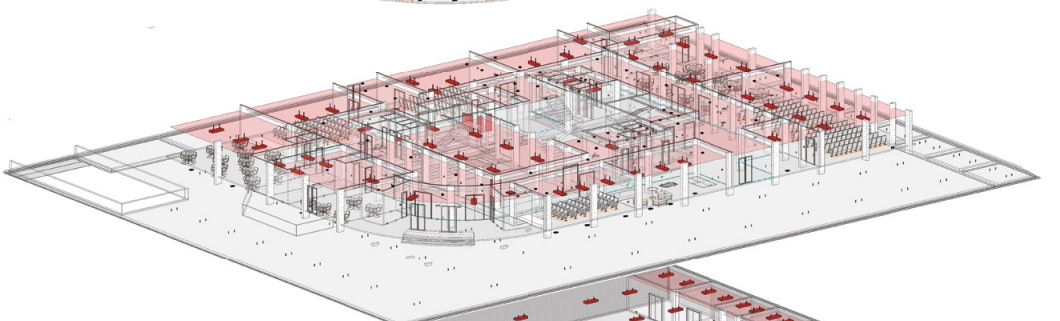
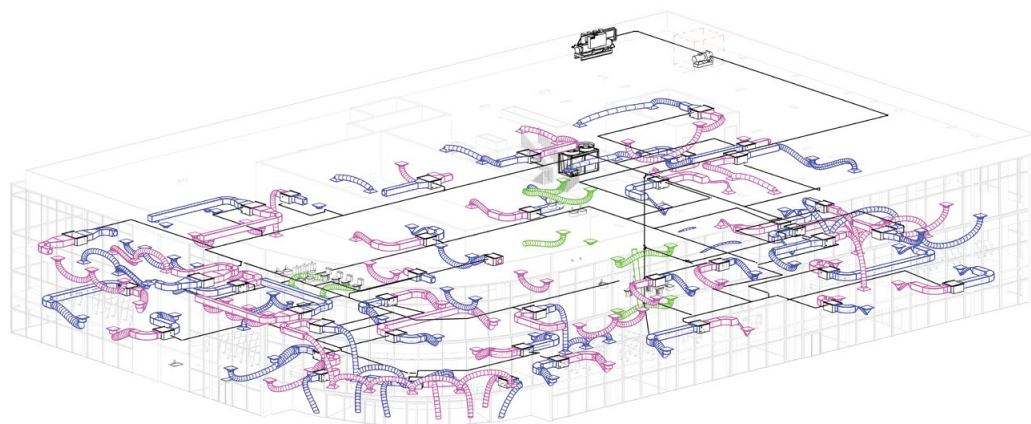
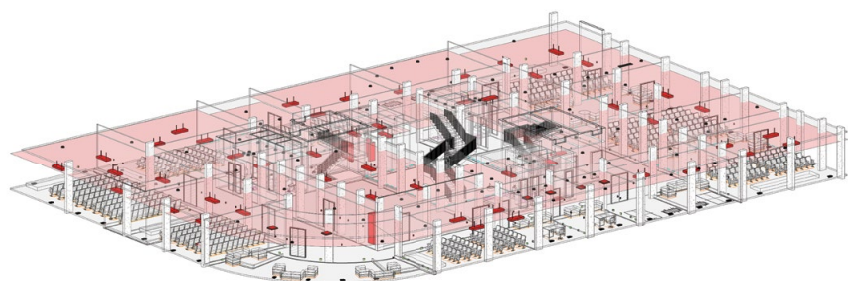
LONGITUDINAL SECTION



STAIR SECTION DETAIL

3D WALL SECTION

2D WALL SECTION



ISOMETRIC LIGHTHIGN DETAIL

ISOMETRIC HVAC DETAIL

Miscellaneous

