

“Journey of Knowledge Concept”

The design concept for this university campus is inspired by the idea of the Journey of Knowledge, creating a physical and symbolic path that reflects the student's growth and learning experience.

A central Knowledge Spine runs through the entire site, acting as the main circulation axis and unifying element. This spine features a linear water element that symbolizes continuity, life, and the flow of ideas. Along its length, a series of stepped levels represent the progressive stages of education and intellectual development.

The academic faculties are carefully arranged along this axis according to their roles in the learning journey:


- 1. Business Administration at the entrance, representing the foundational organizational skills.*
- 2. Engineering and Technology in the middle, emphasizing applied knowledge and problem-solving.*
- 3. Applied Arts toward the end, celebrating creativity, expression, and innovation.*

- Landmarks such as a central plaza, a library, and a conference hall are integrated as communal nodes for interaction, collaboration, and knowledge exchange.

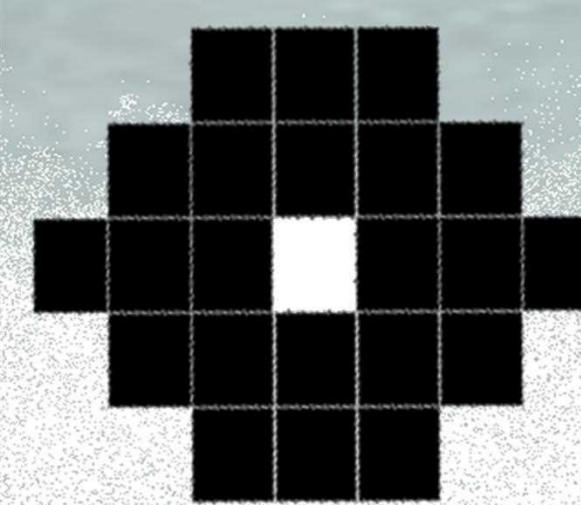
- The Landscape design supports this concept with terraced gardens, shaded seating, and the dynamic play of levels, encouraging both movement and reflection.

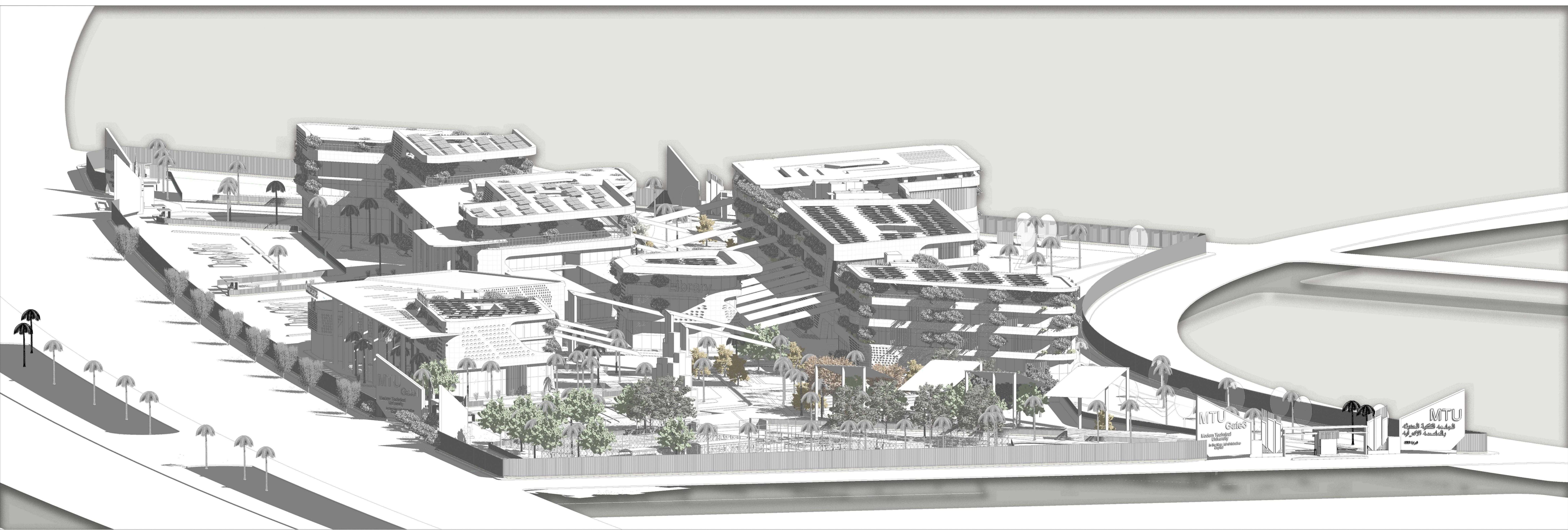
Overall, the campus embodies a holistic educational environment where architecture, nature, and culture converge to guide students through a meaningful and inspiring journey of learning.





**Modern Technical University
at New Administrative Capital**

















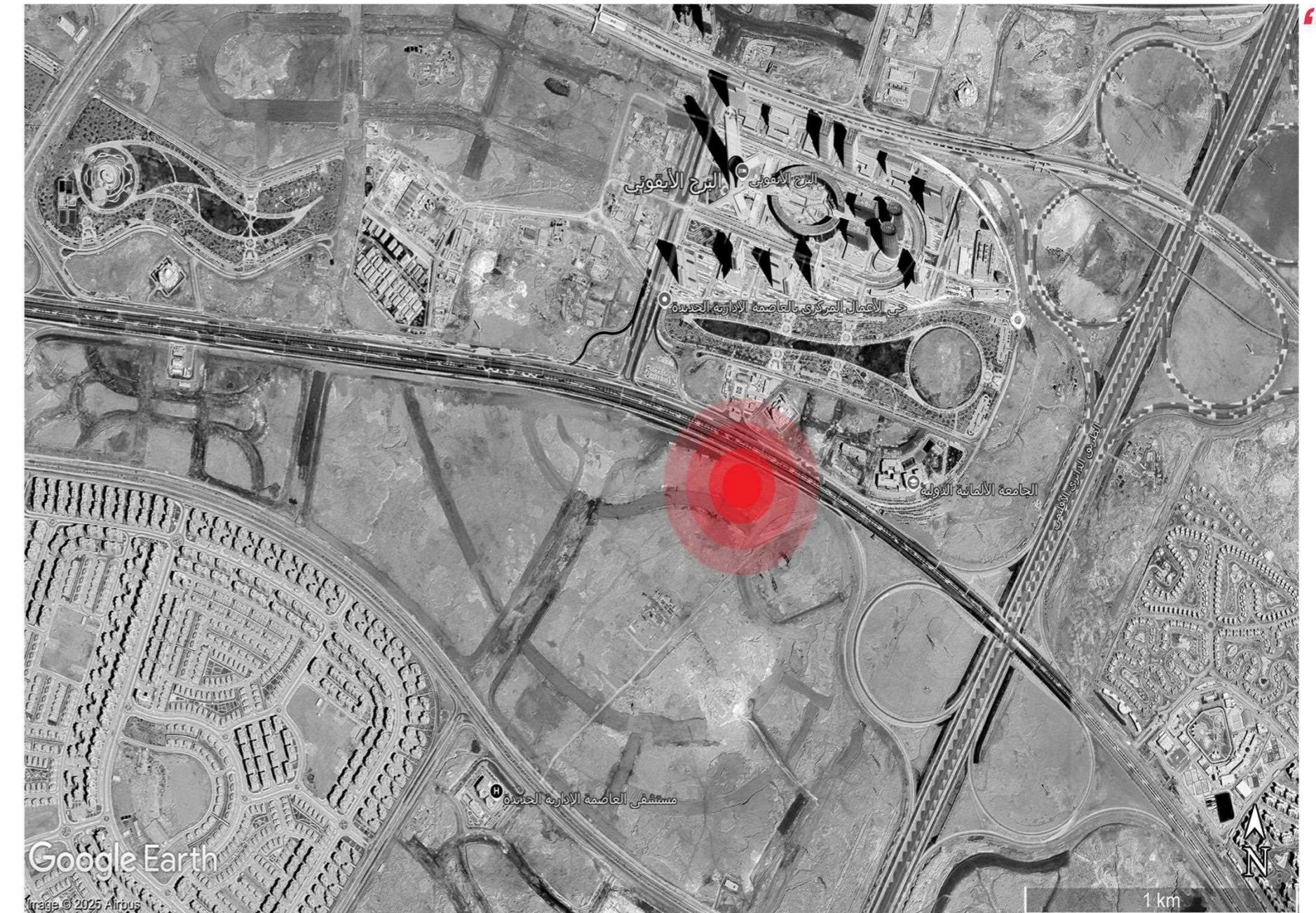


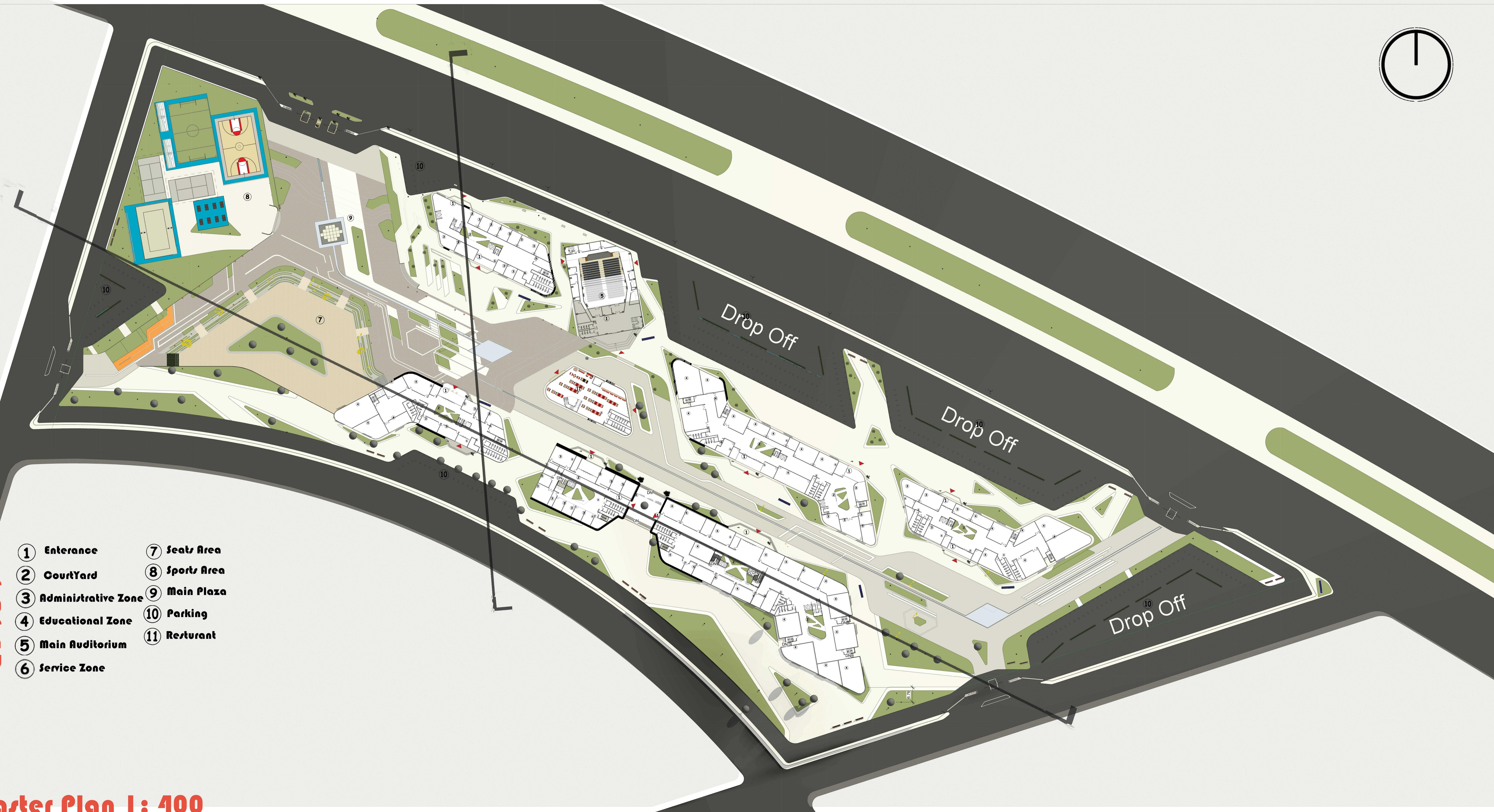
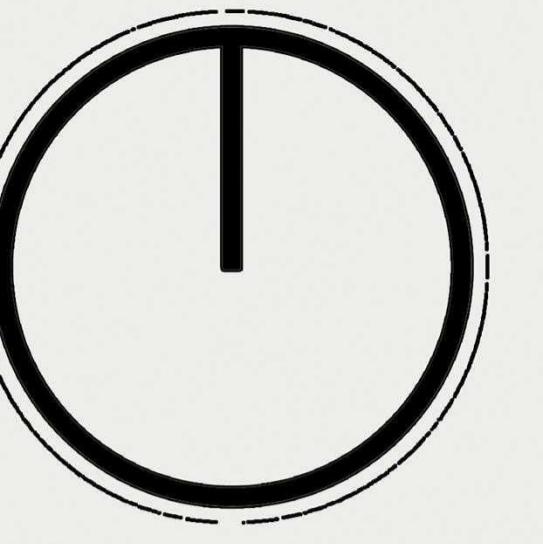




Location And Urban Context :

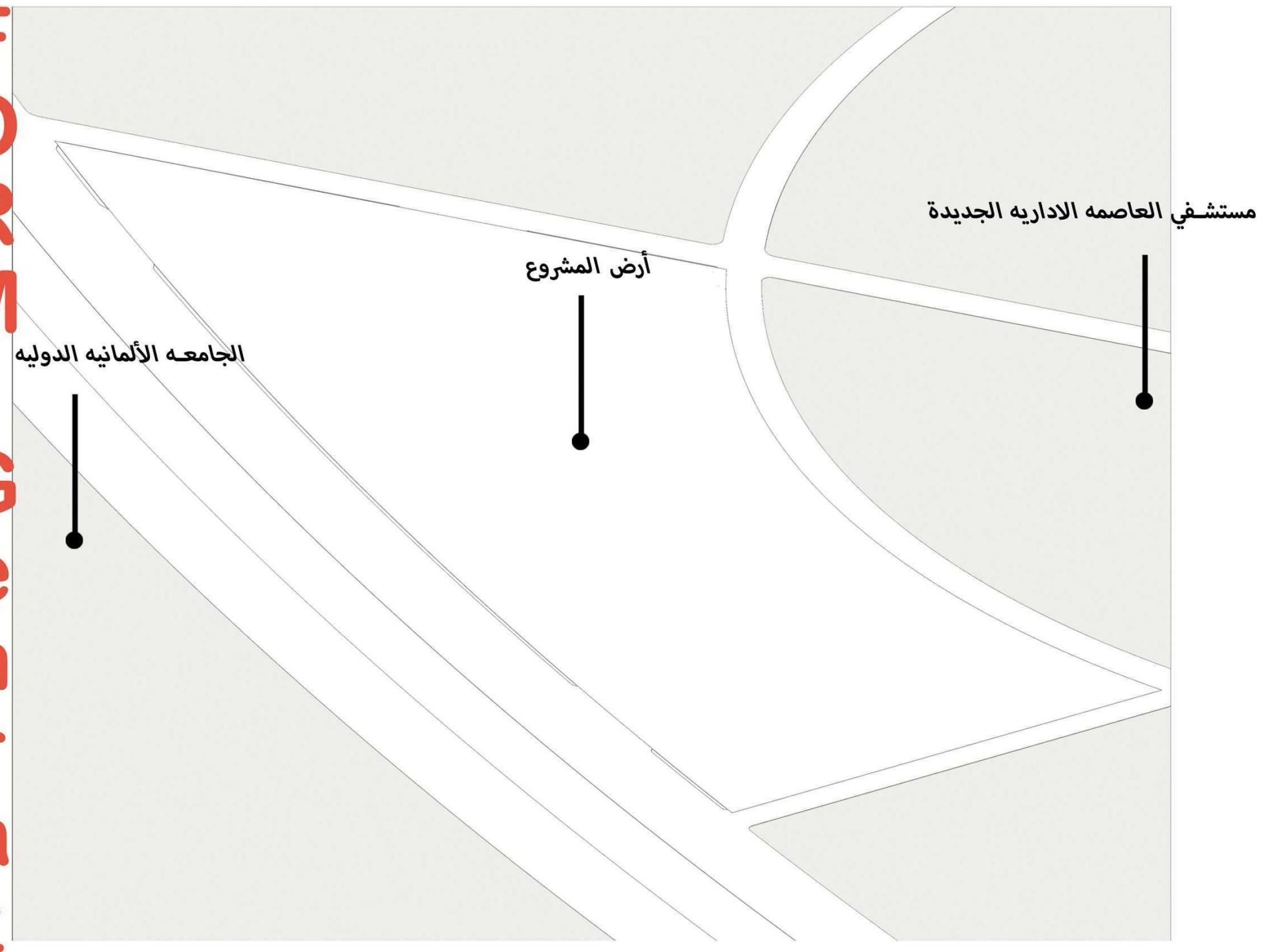
The site is located in Egypt's New Administrative Capital, a planned modern city east of Cairo. It features wide roads, government districts, cultural landmarks, and landscaped green spaces. The context supports a contemporary university campus aligned with Egypt's vision for innovation and sustainable urban growth.



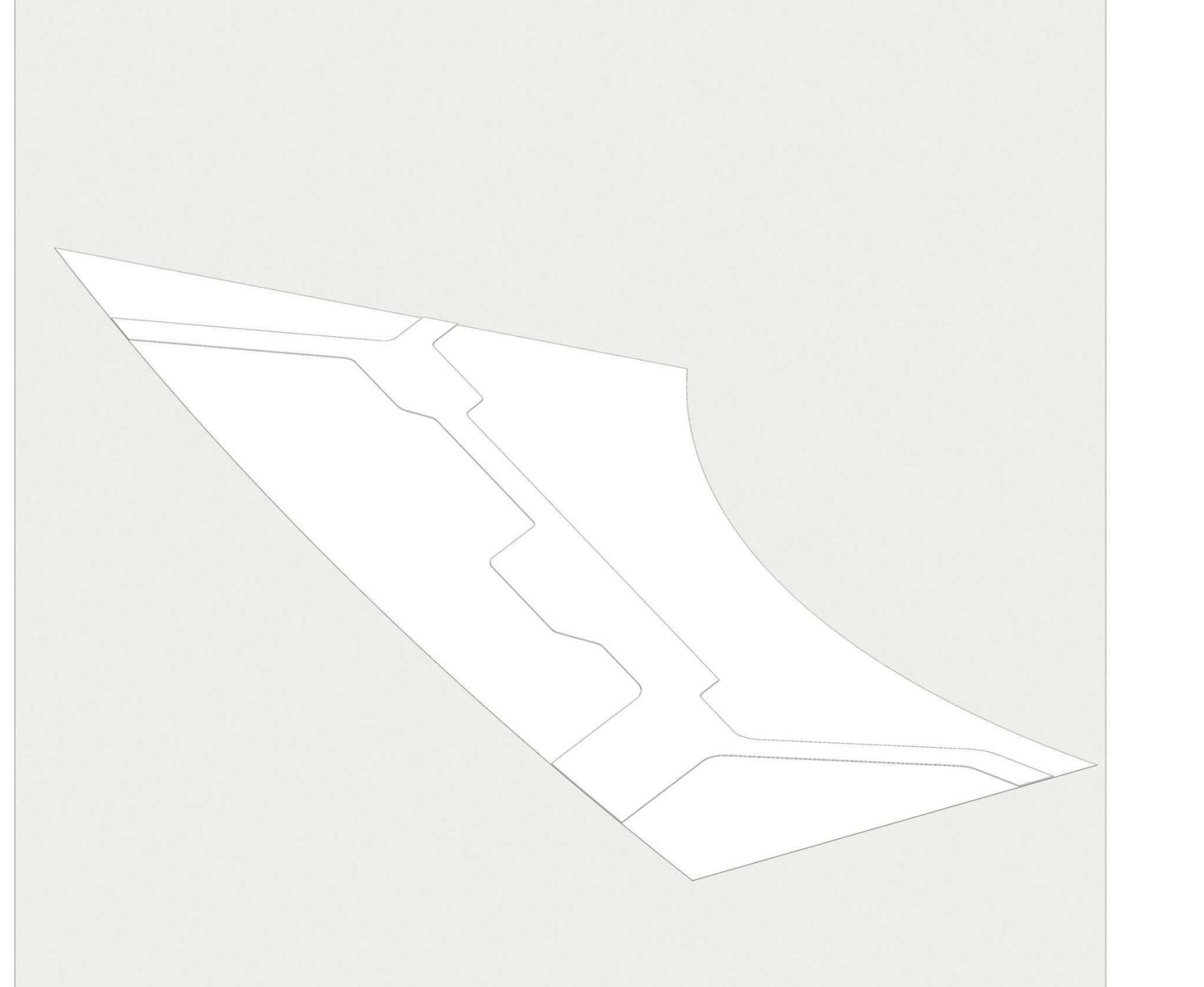


Master Plan 1: 400

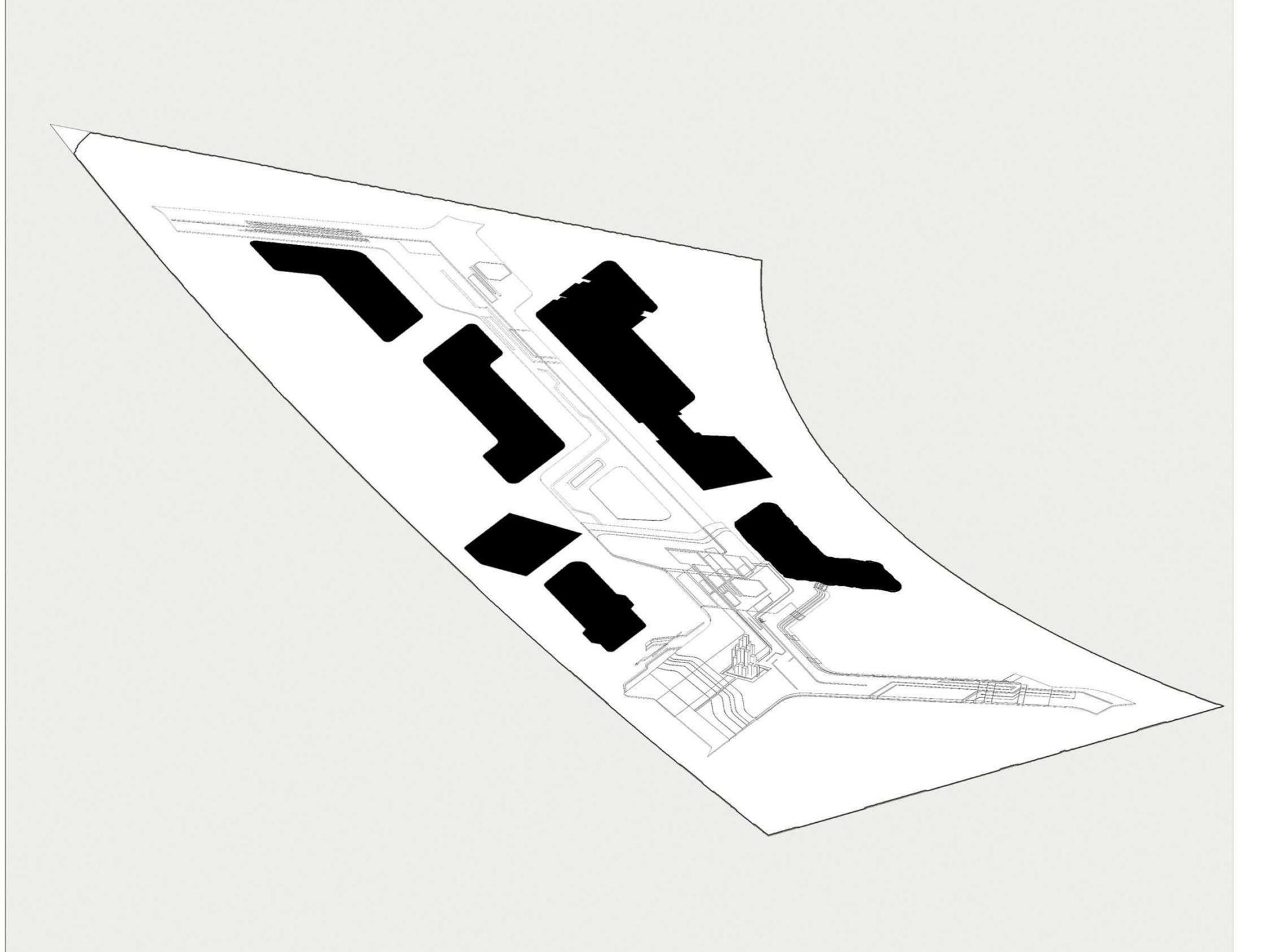
FORM Generation



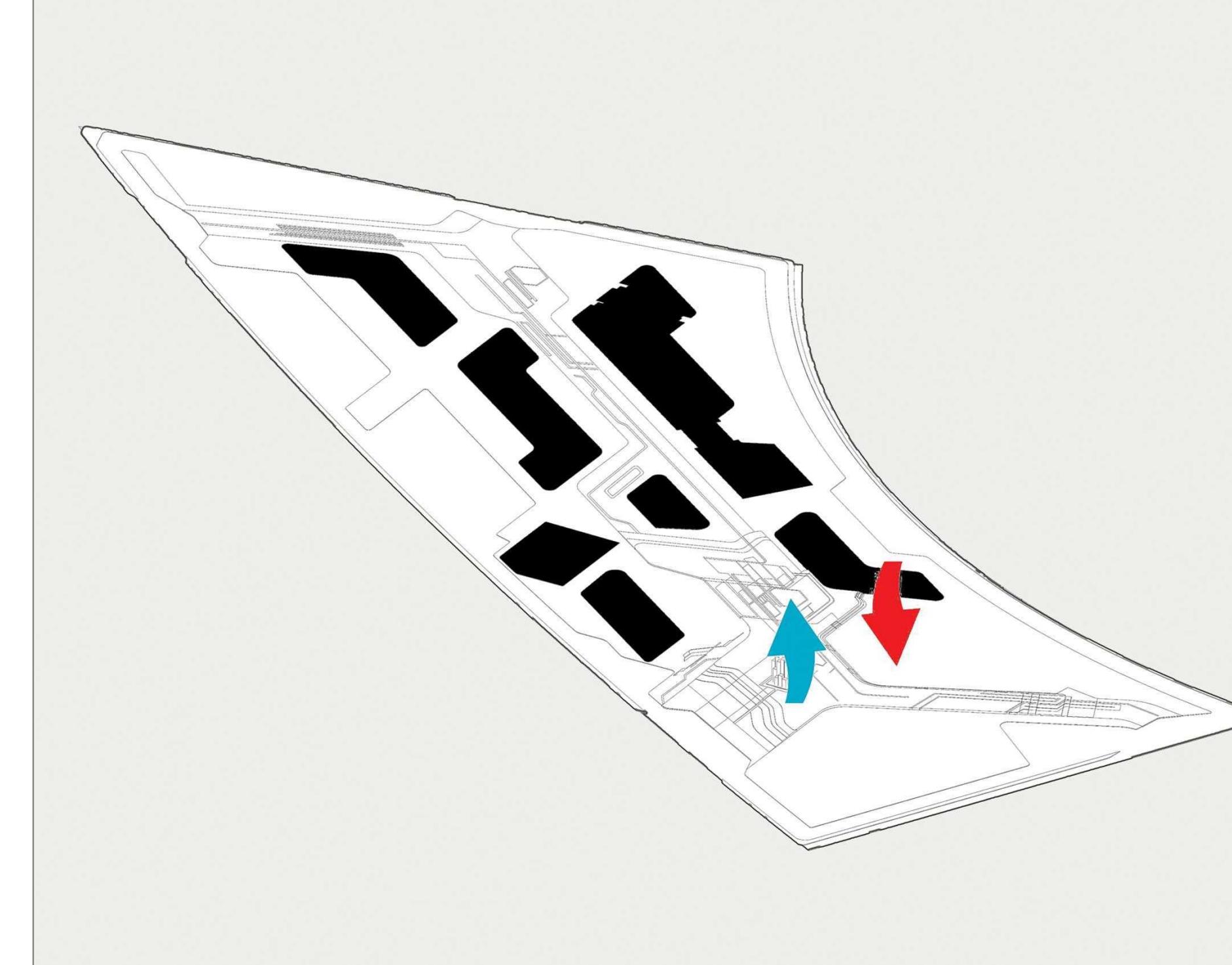
1. Site Border : Outlined the site boundary to set clear project limits.



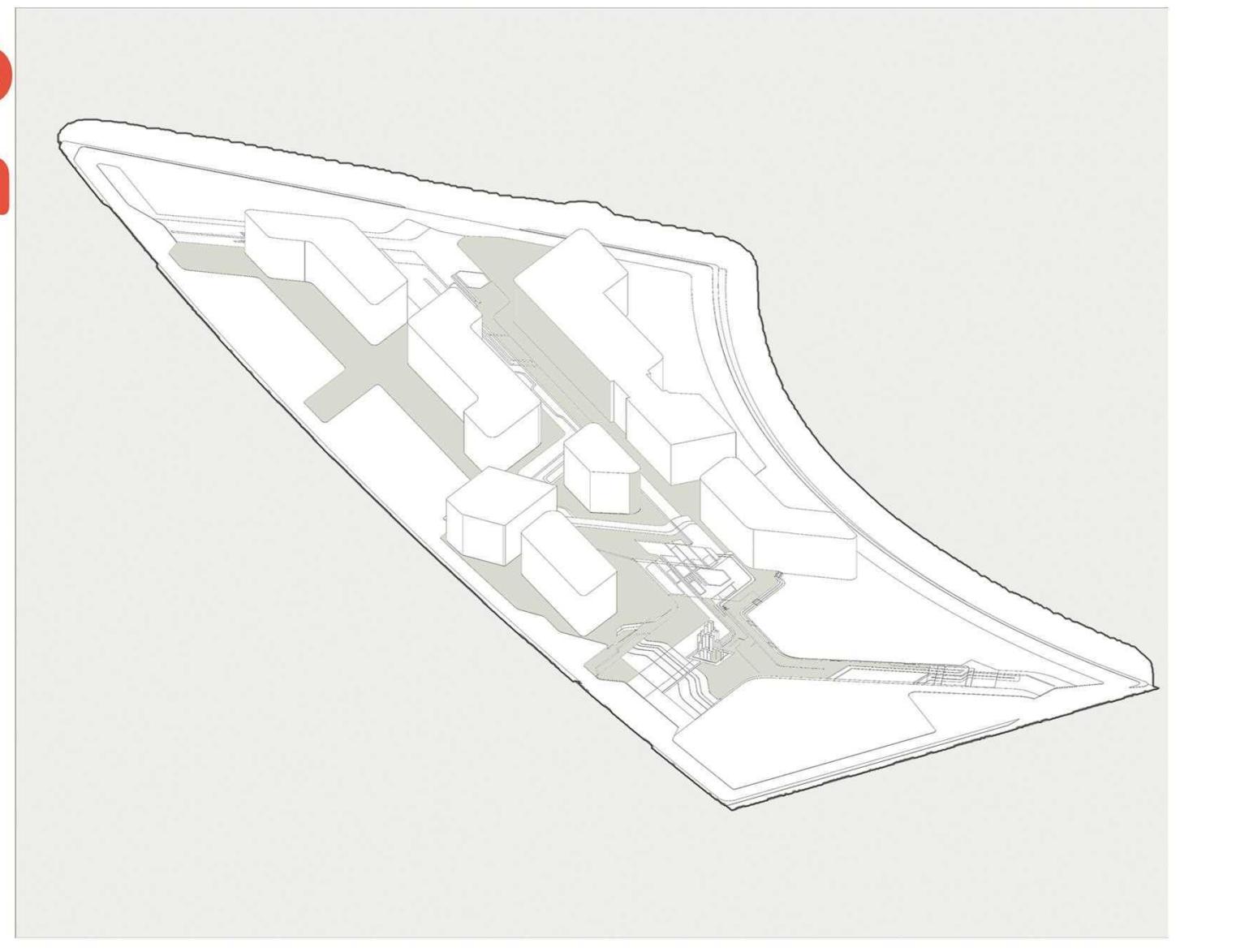
2. Main Spine Creation : Established a central Knowledge Spine to organize circulation and link all zones.



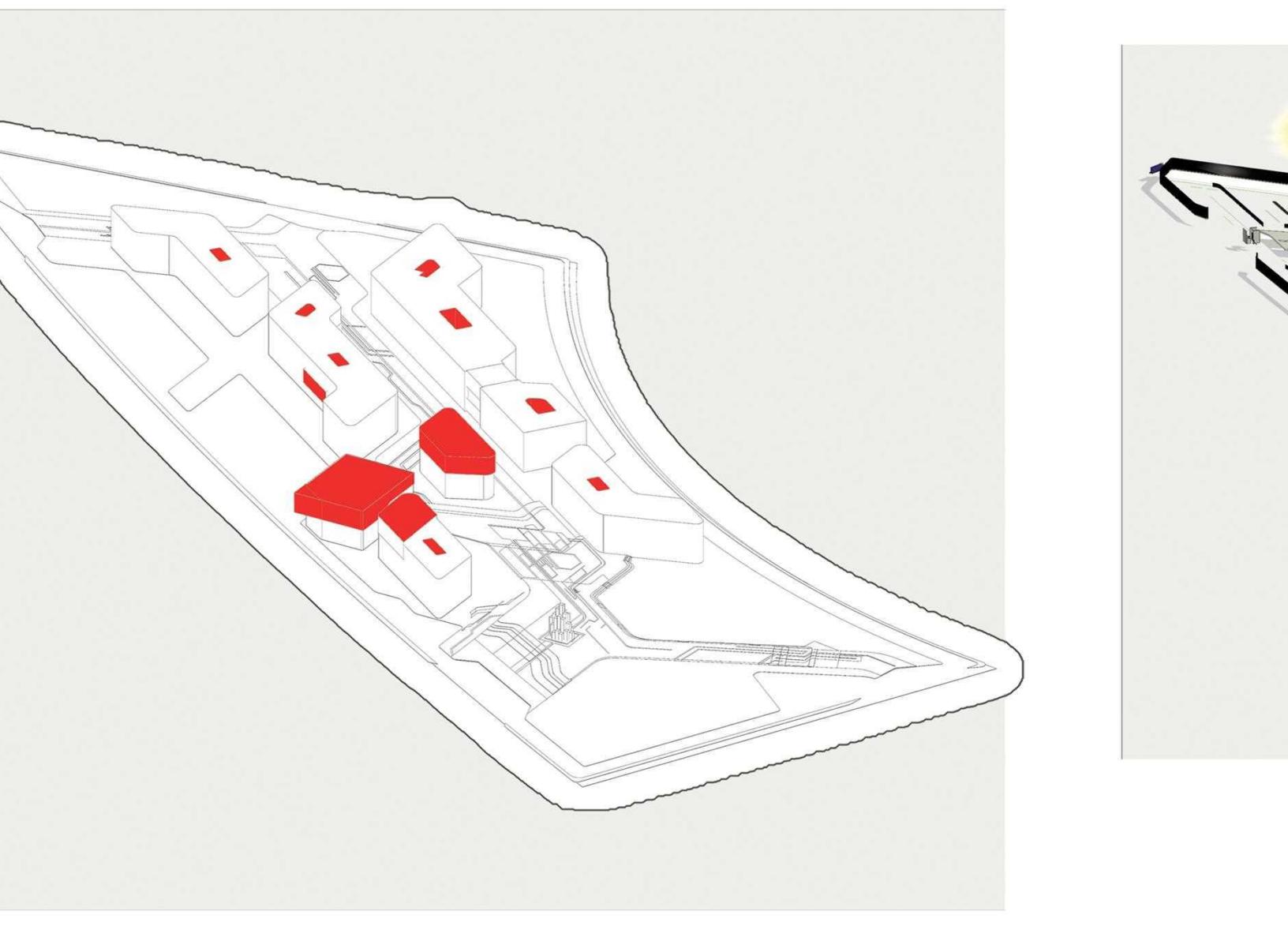
3. Block Layout and Water Feature : Allocated building footprints along the spine, integrated a water feature and landmark for identity.



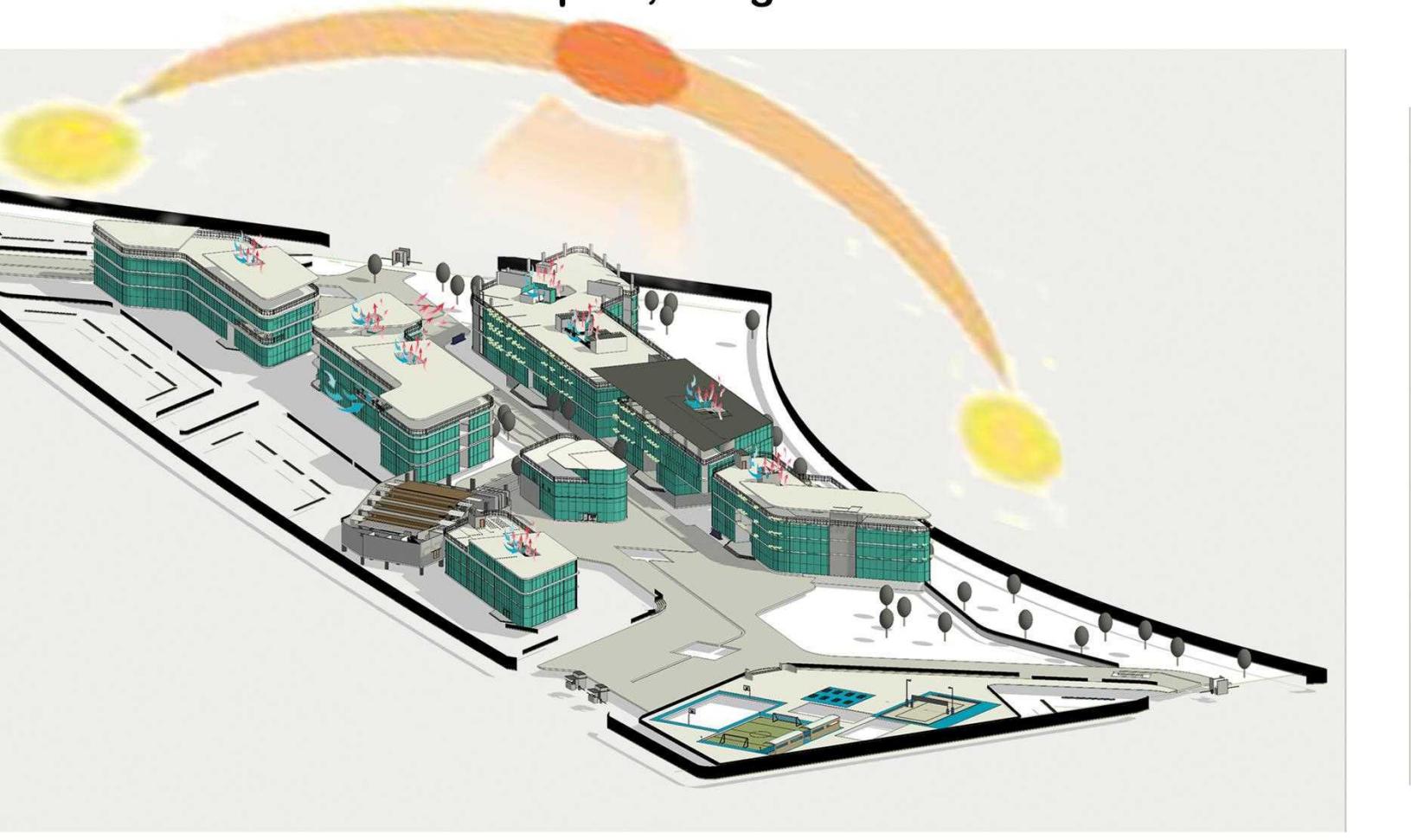
4. Parking and Topography : Planned parking areas, adjusted site levels to create dynamic raised and lowered zones.



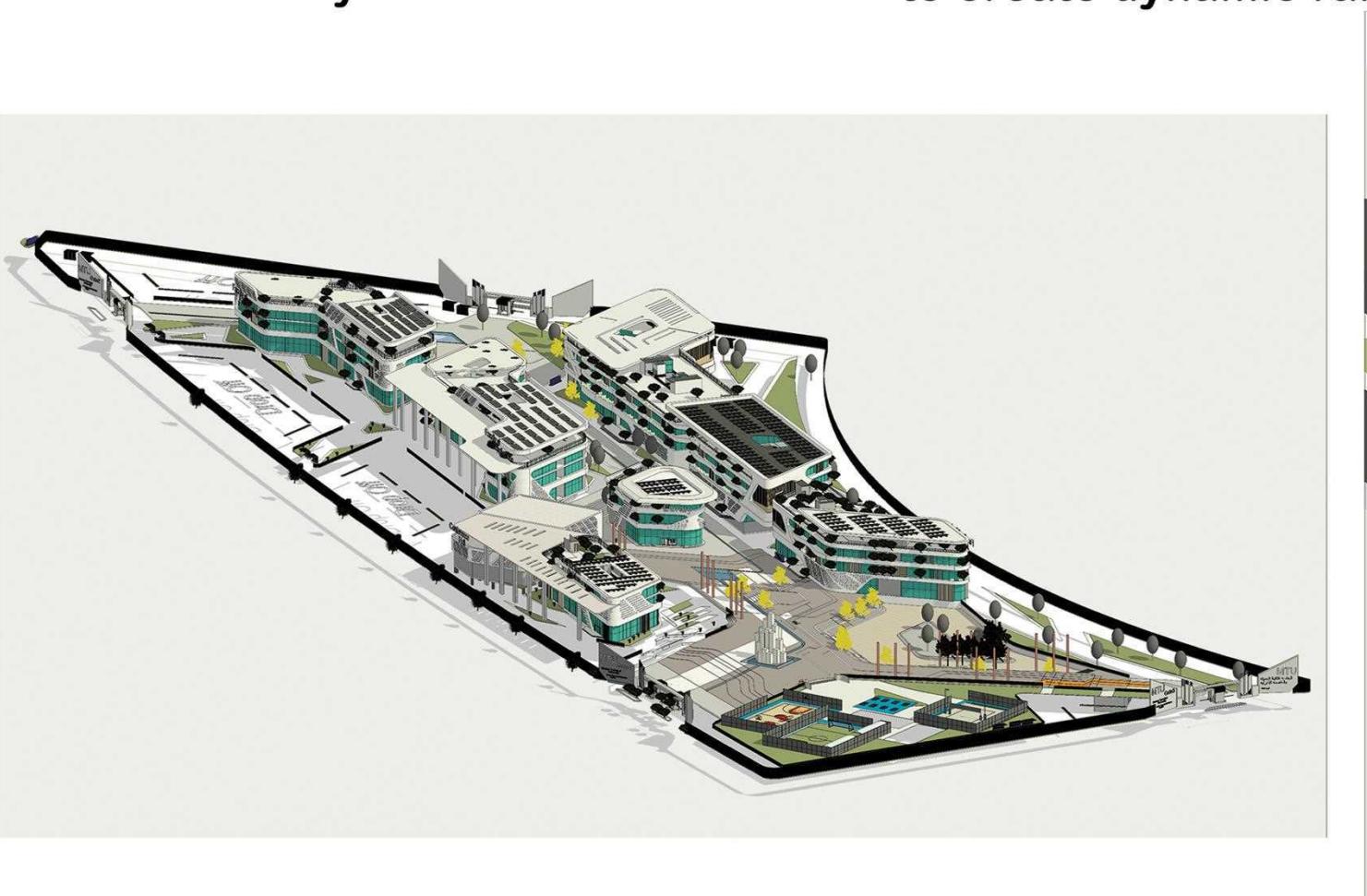
5. Mass Extrusion : Raised building volumes based on function and hierarchy.



6. Mass Subtraction : Carved out sections to form courtyards, atriums, and open spaces.



7. Structural Elements : Added walls, floors, and roofs to define spaces.



8. Façade Design : Developed façade patterns to reflect the concept and aesthetics.



9. Shading and Finalization : Integrated shading elements and completed detailing to finish the design.

“Circuit Board Pattern Concept”

These circuit-inspired lines are not decorative but generative.

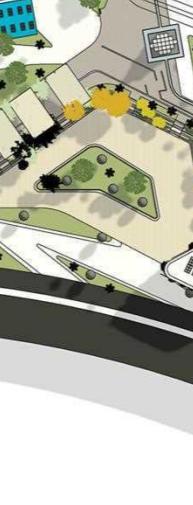
They informed the entire site layout, defined movement paths, shaped the spatial hierarchy, and embodied the concept of knowledge flow and interdisciplinary connectivity. Like a circuit board interlinks components to form a system, these lines organized the university's faculties, public spaces, and interactions into a coherent, integrated academic environment.

CIRCUITBOARD
PATTERN



CIRCUIT

SITE LAYOUT
CONCEPT

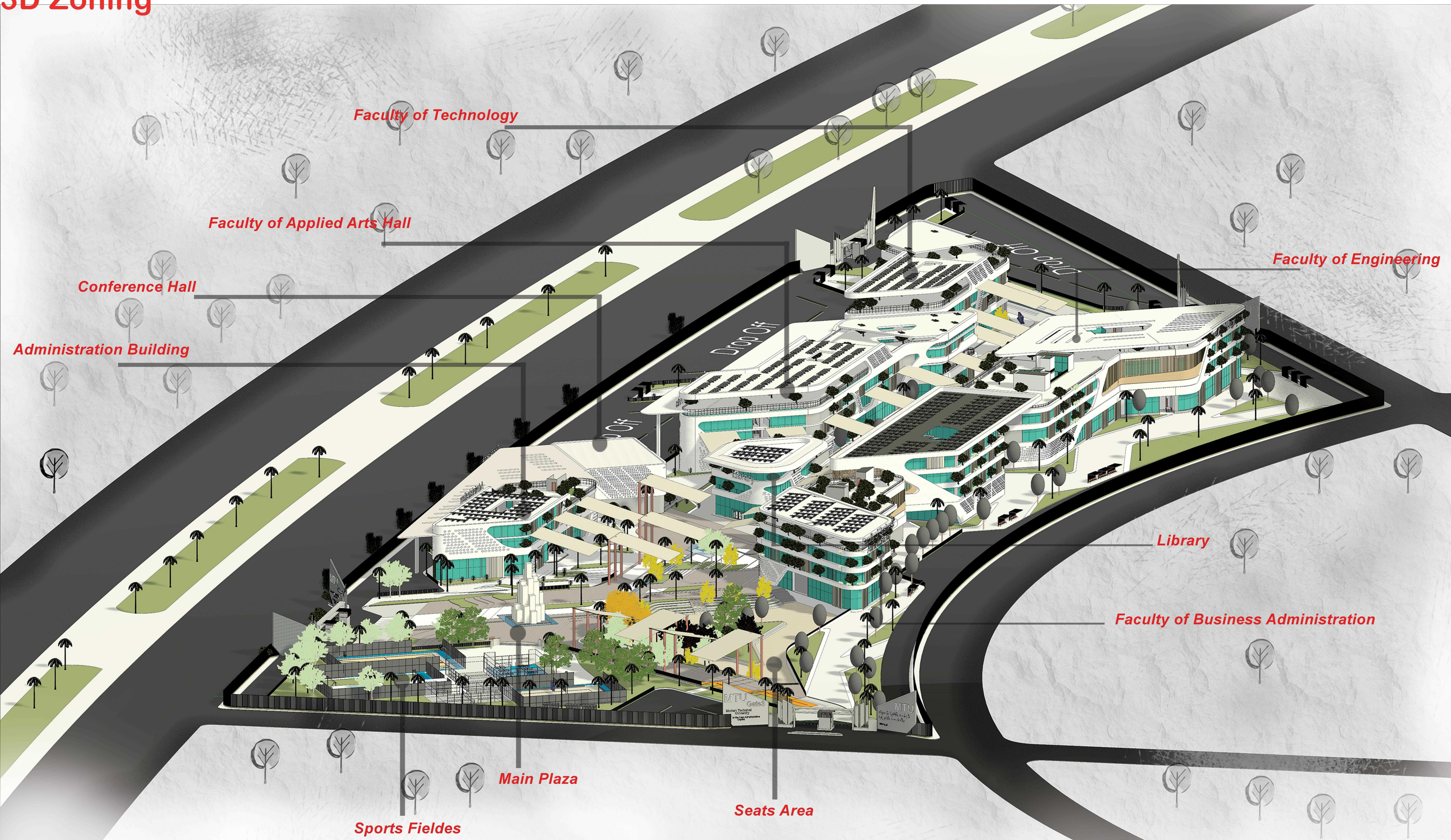


SITE PLAN
CONCEPT



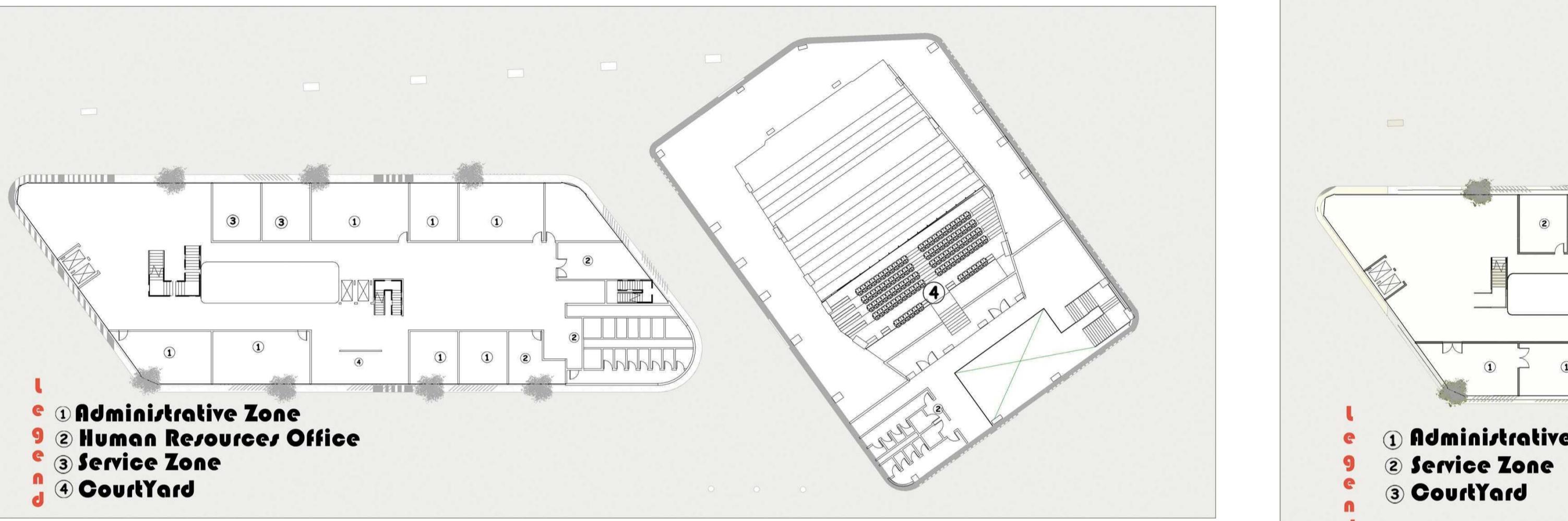
RENDERED
SITE PLAN

3D Zoning





Floor Plans :



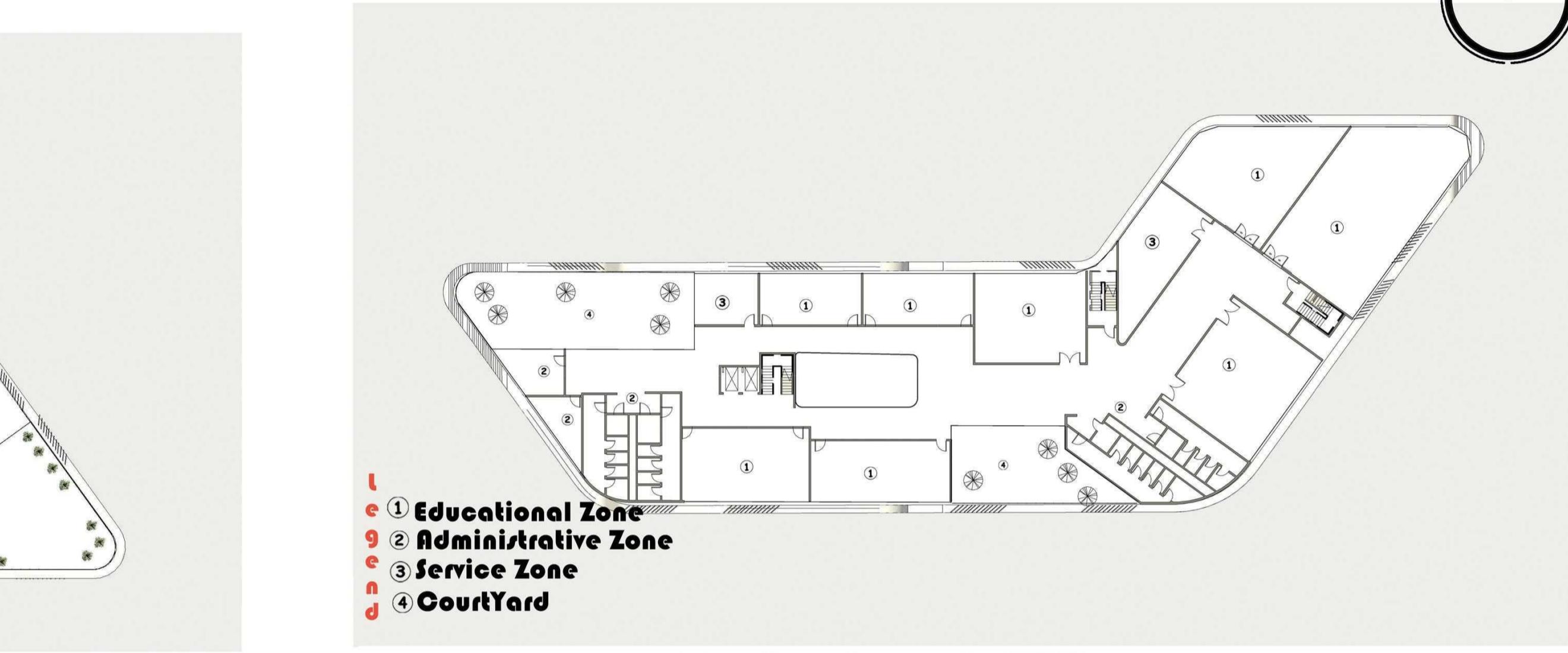
Administration . Conference first floor 1:400



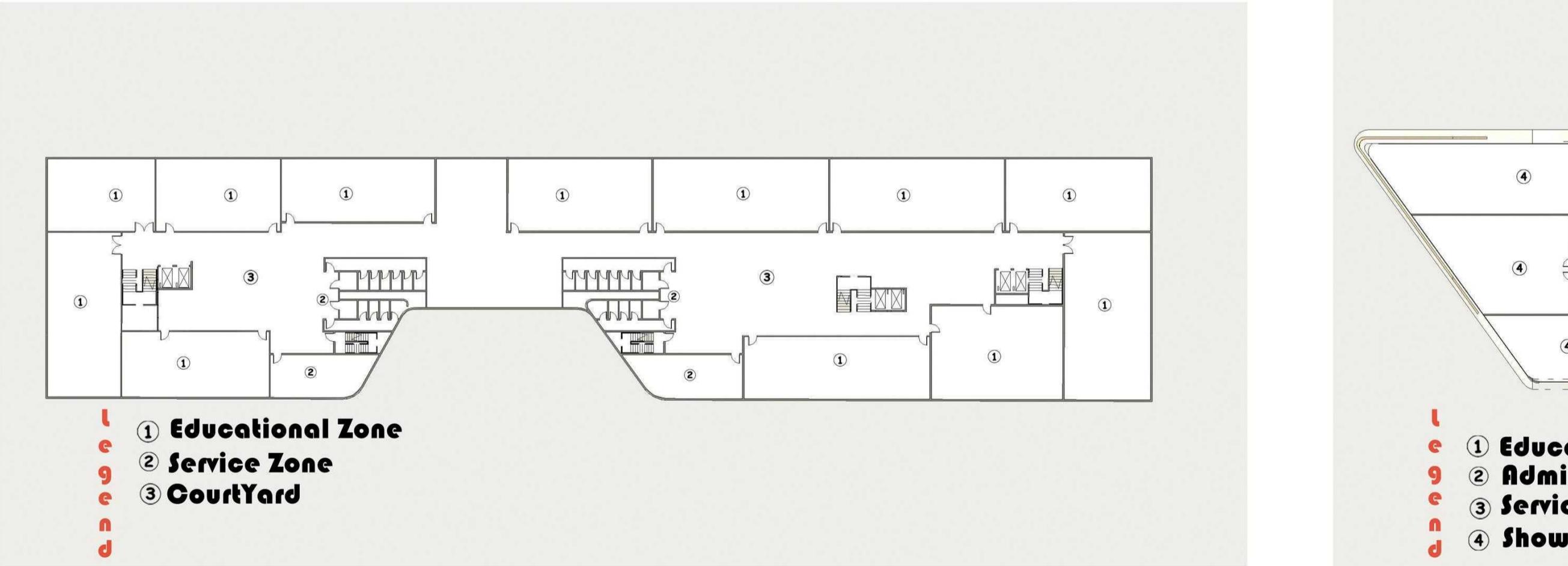
Administration . Conference 2cd floor 1:400



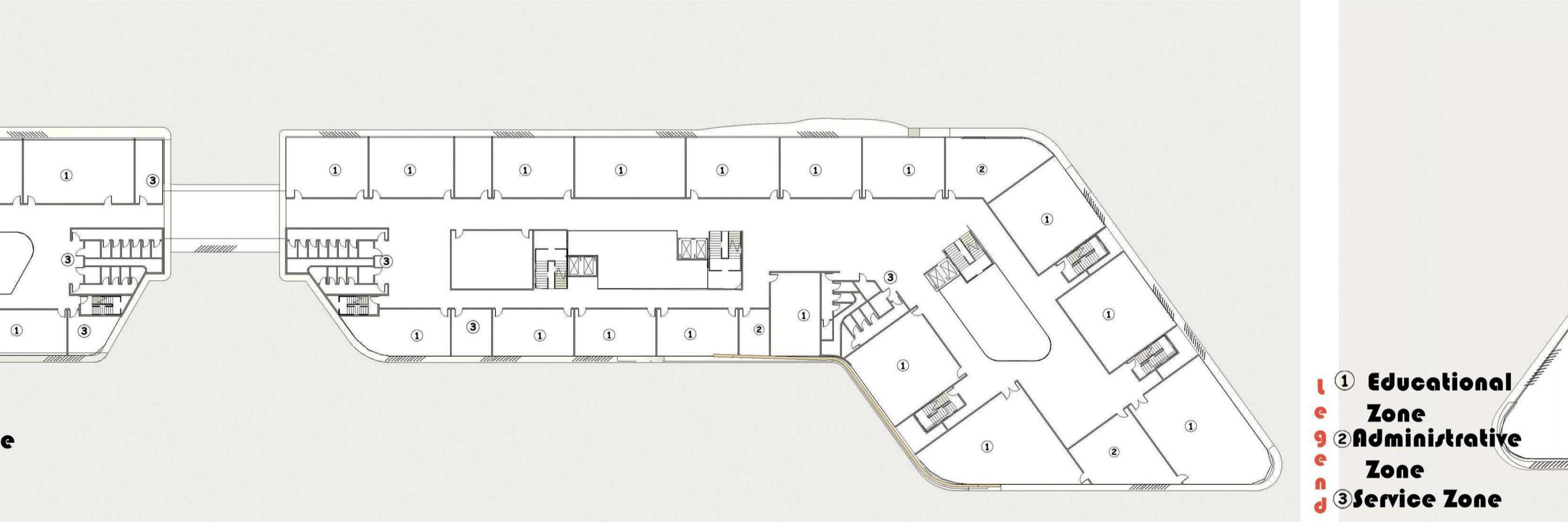
Applied Arts first floor 1:400



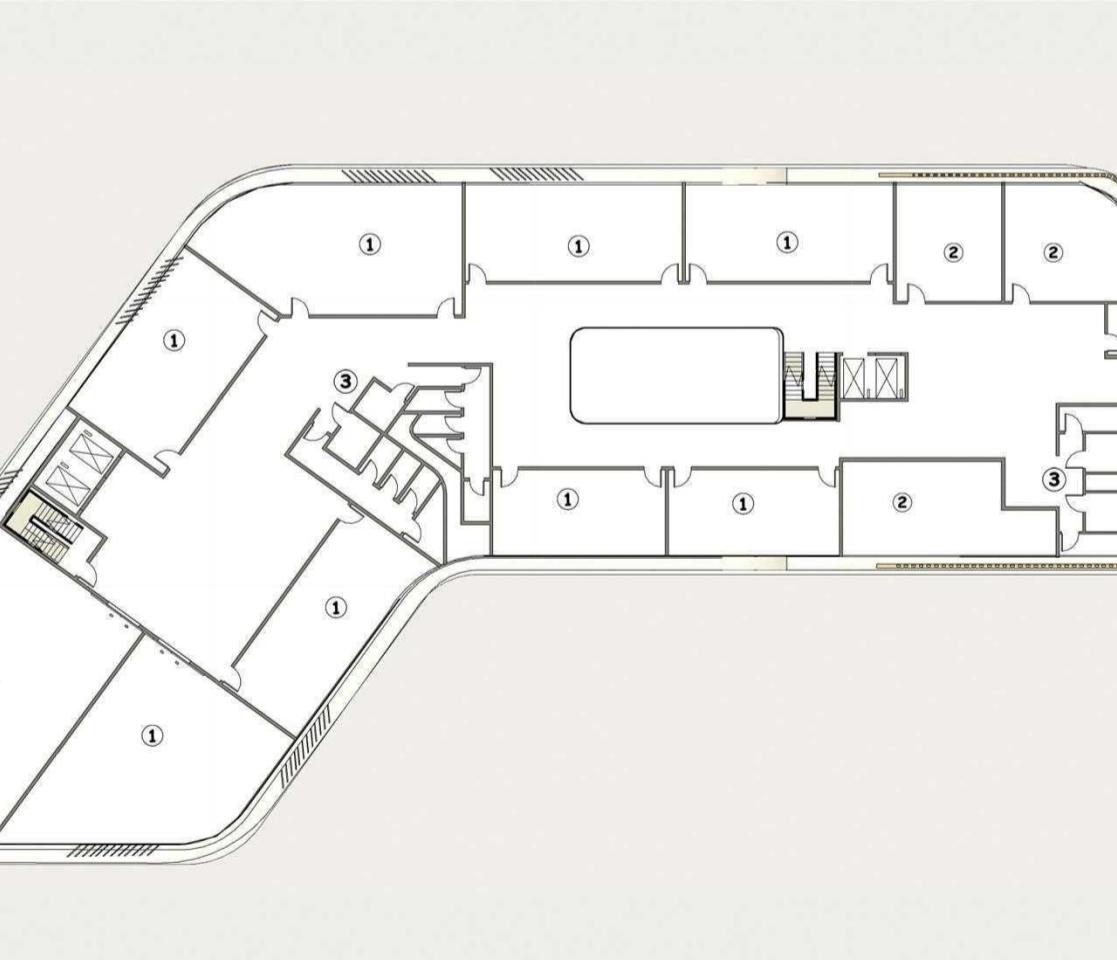
Technology 1:400



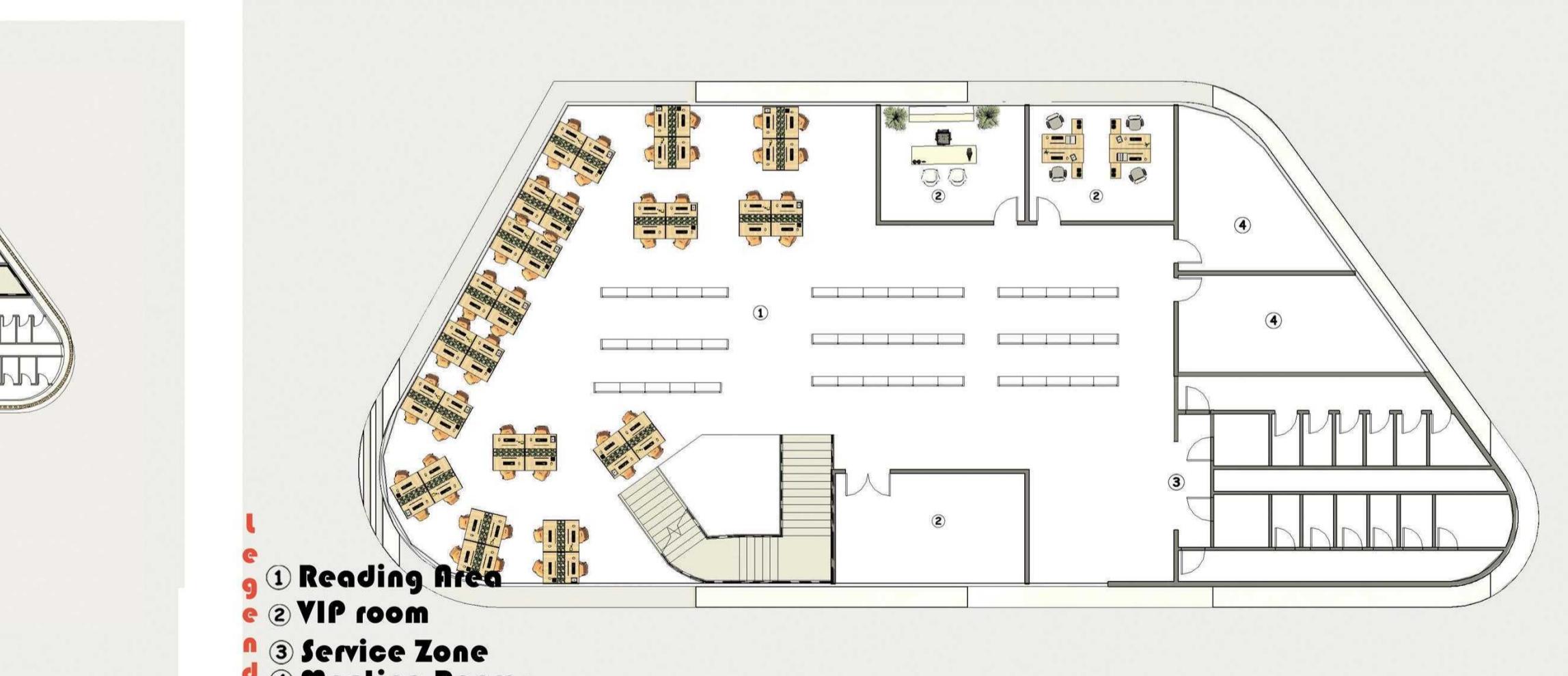
Engineering Basement floor 1:400



Engineering First floor 1:400



Business Administration First floor 1:400



library 1:200



Engineering . Business Administration ELE I : 400

Sections



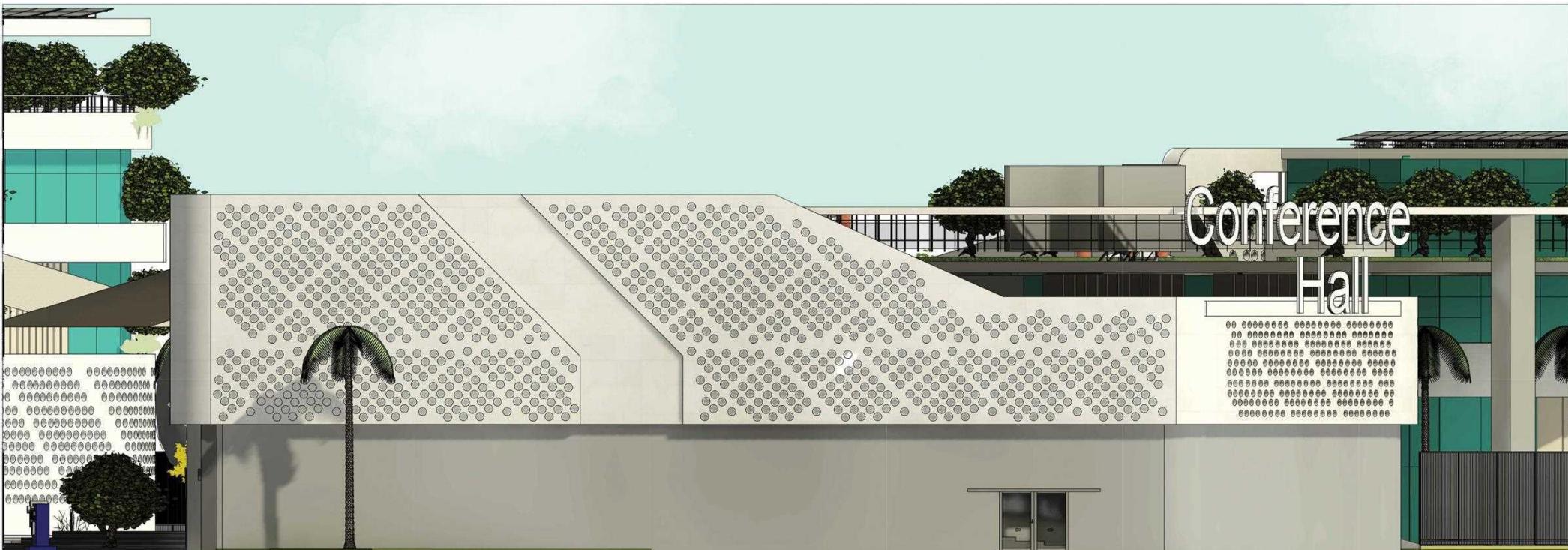
E l e v a t i o n s



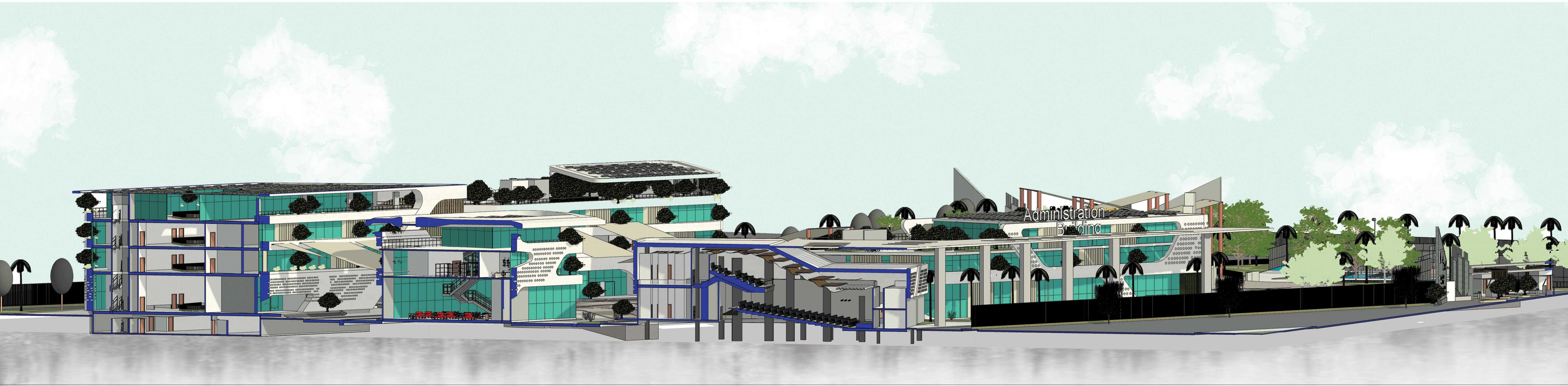
South Elevation 1: 400



North Elevation 1: 400



Conferance Hall ELE 1:200



3D Section



UNIVERSITY













