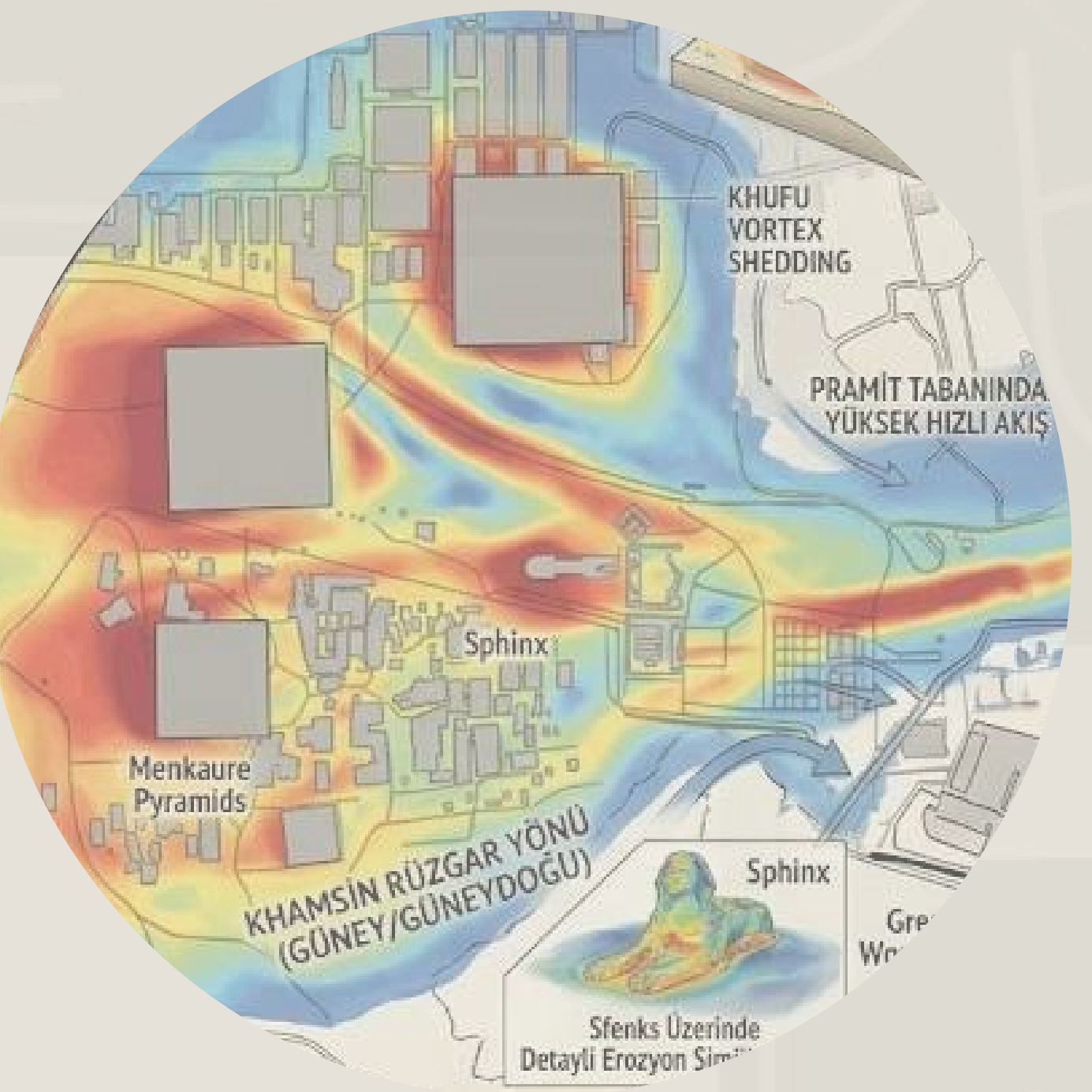


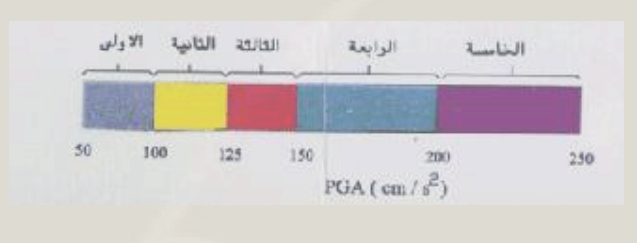
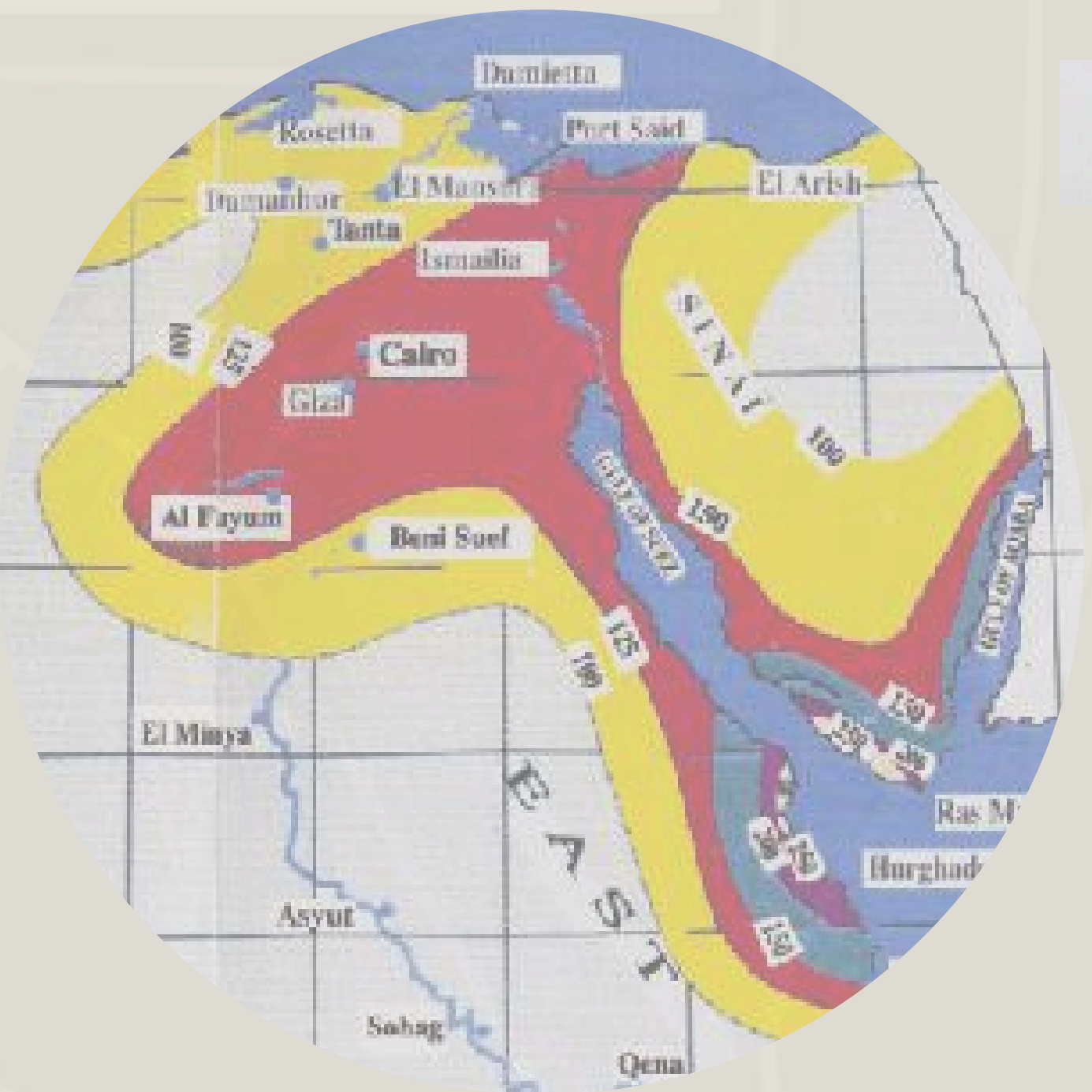
ENVIRONMENTAL ANALYSIS



SANDSTORM ANALYSIS



EARTHQUAKE ANALYSIS



S W O T

S Offering an event space within the world's most recognizable landmark.

Enhances the tourist experience by providing relief from the desert sun.

W Significant investment and maintenance for retractable mechanisms and high-grade materials.

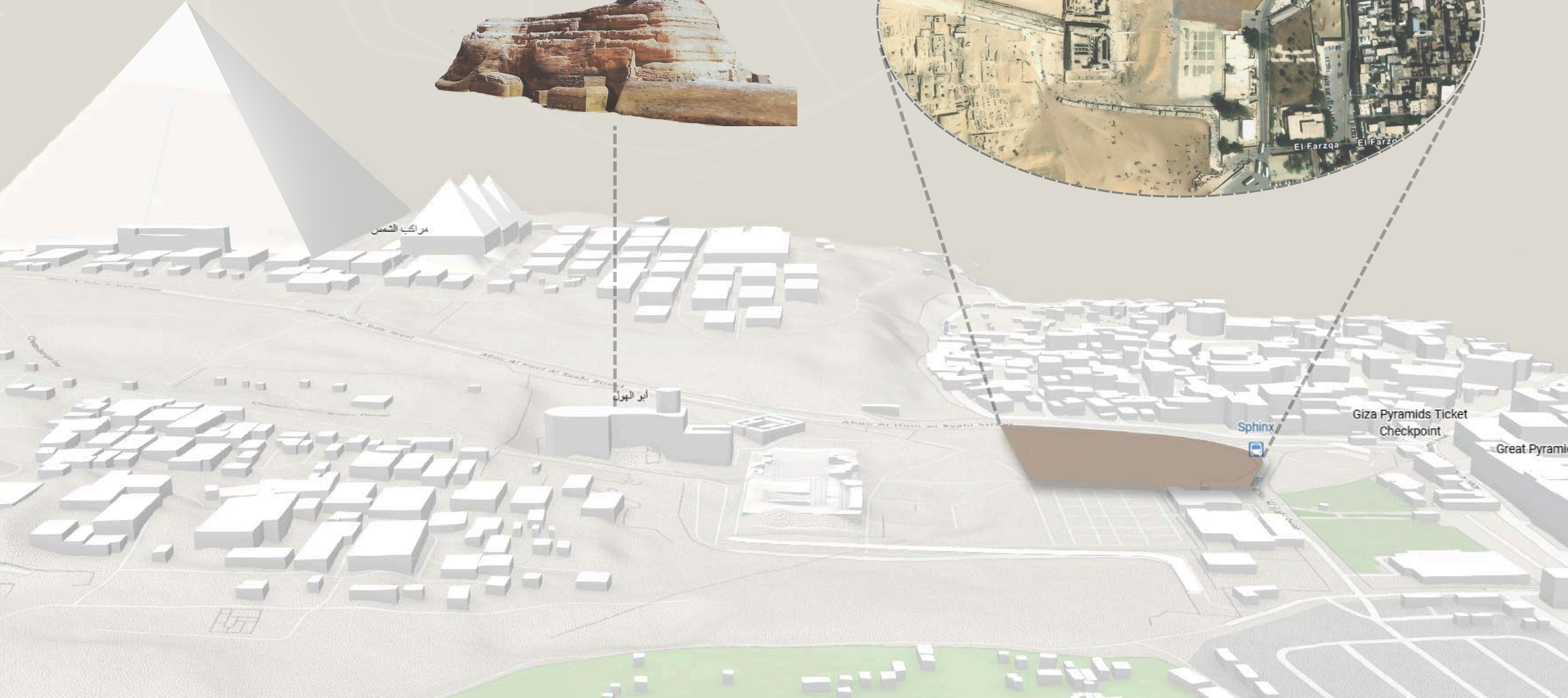
Potential interference with the historical silhouette and aesthetic of the Pyramids.

O Attracting high-end global events, galas, and corporate gatherings.

Setting a new standard for visitor safety during unpredictable weather events.

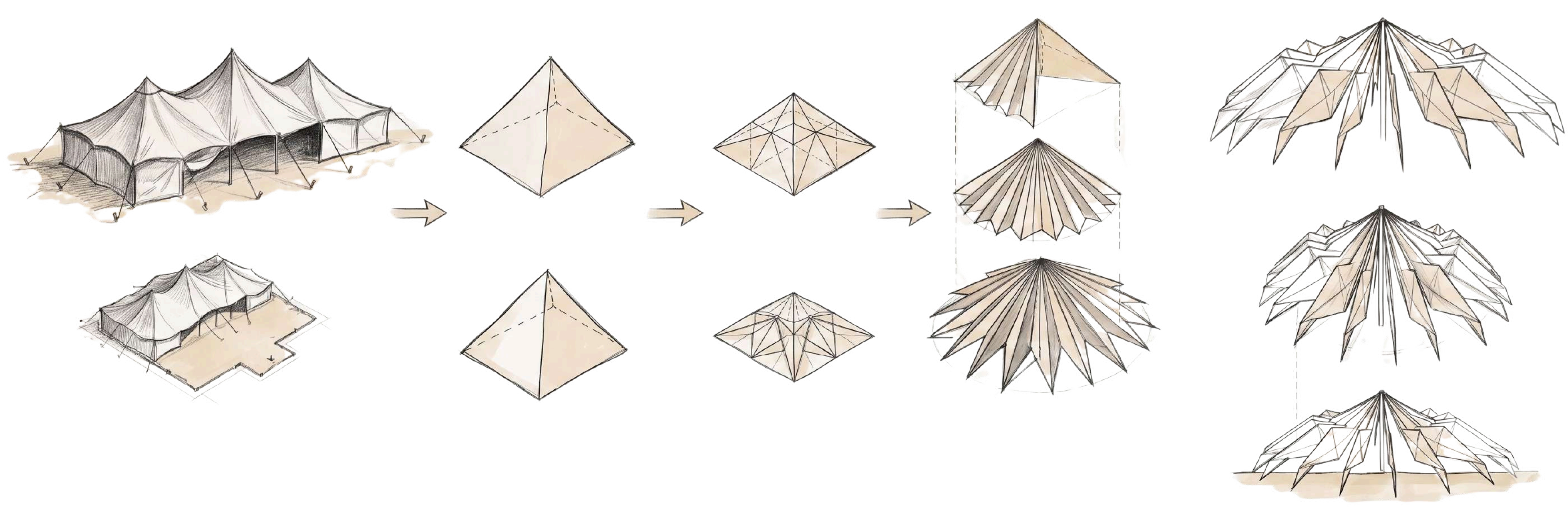
T Strict UNESCO and archaeological preservation laws.

Potential backlash regarding the commercialization of a "World Heritage Site."





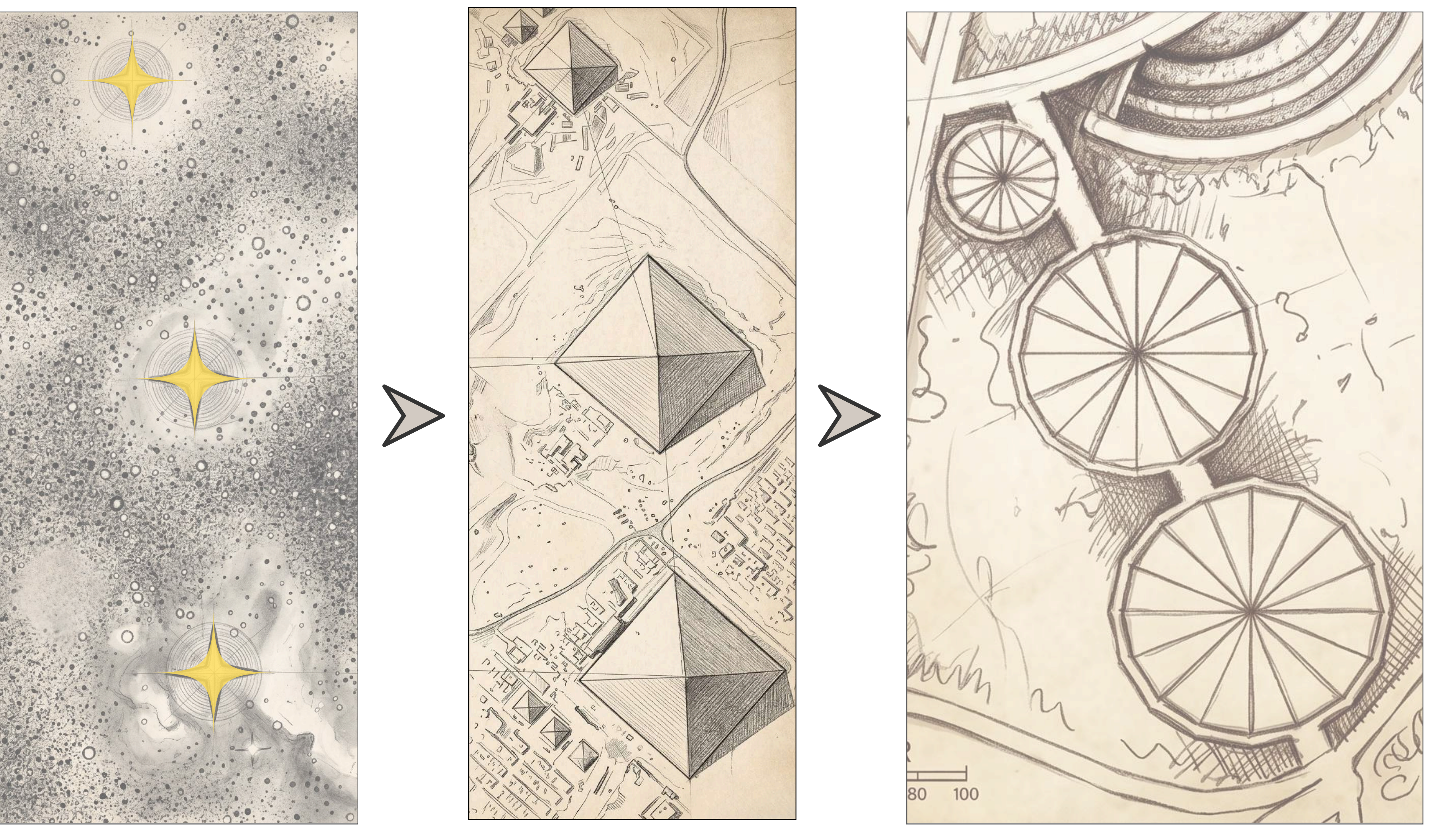
Normal Scenario



FOLDRA

The architectural form of the project is inspired by the traditional Bedouin tent, an essential element of the desert culture of Egypt. The adaptable, mobile, and climate-responsive nature of Bedouin living has been reinterpreted through a contemporary architectural approach. The tent's lightweight, protective, and shading qualities are transformed into a modern responsive canopy system that can adapt to changing environmental conditions.

Form Generation Diagram

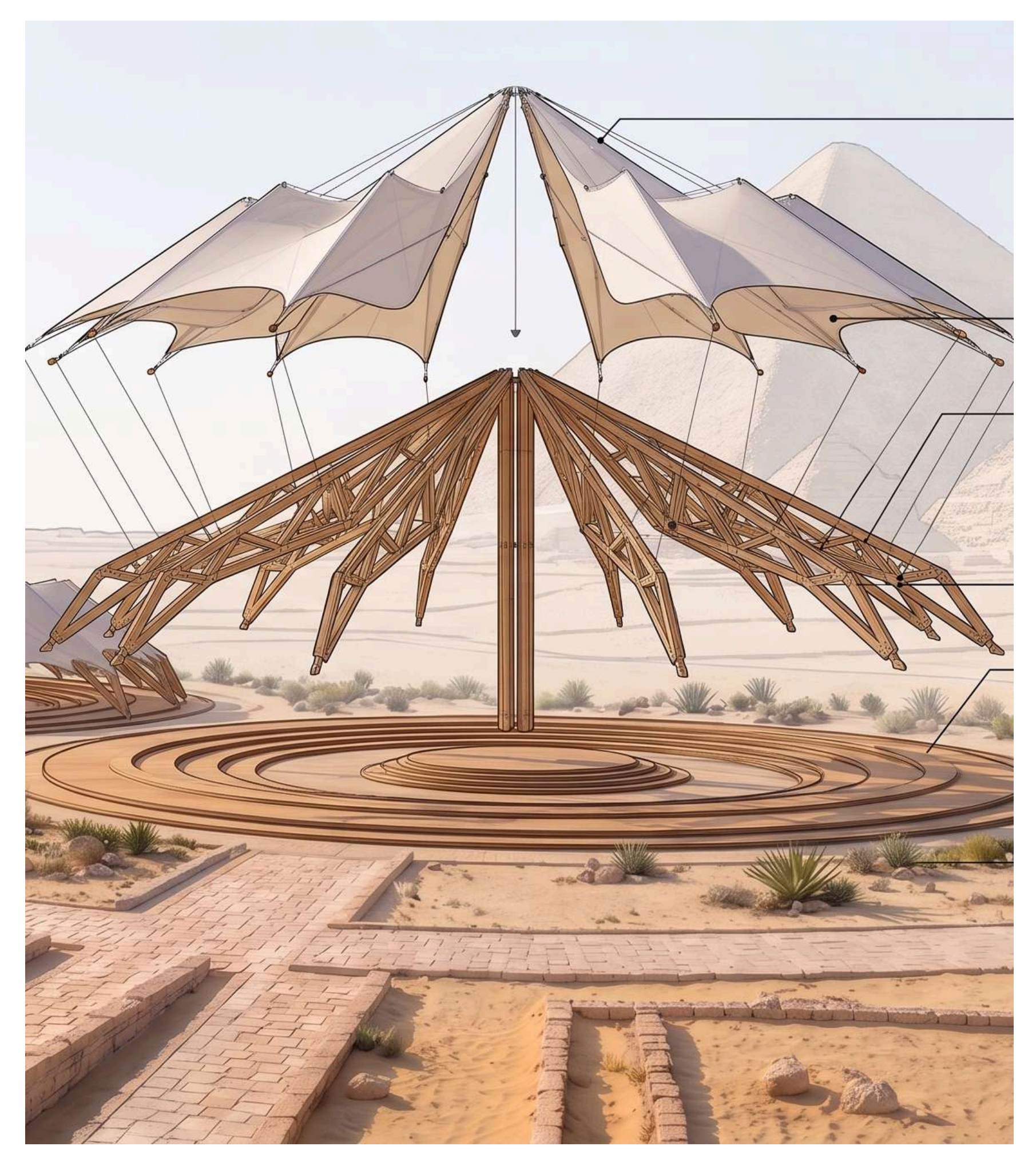
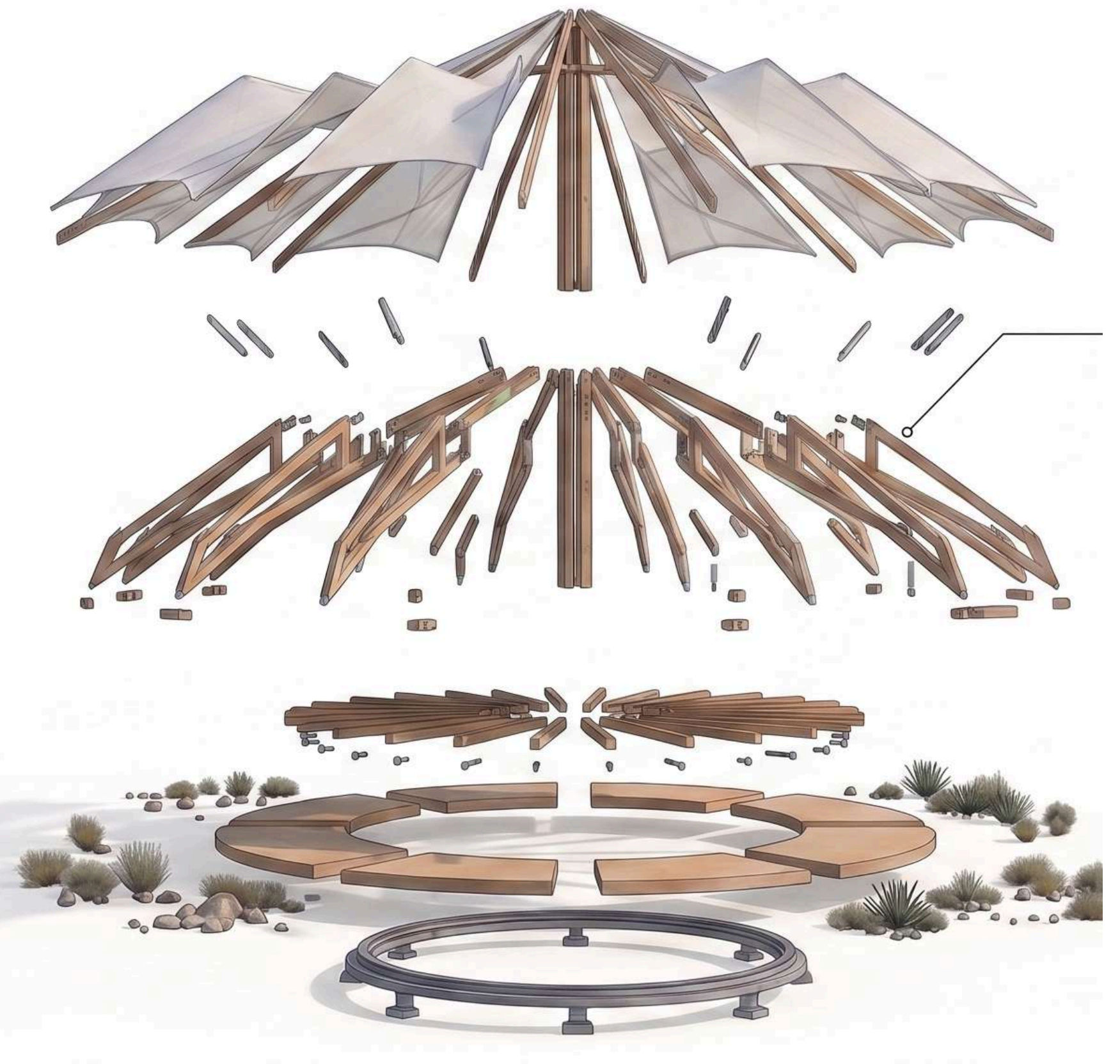
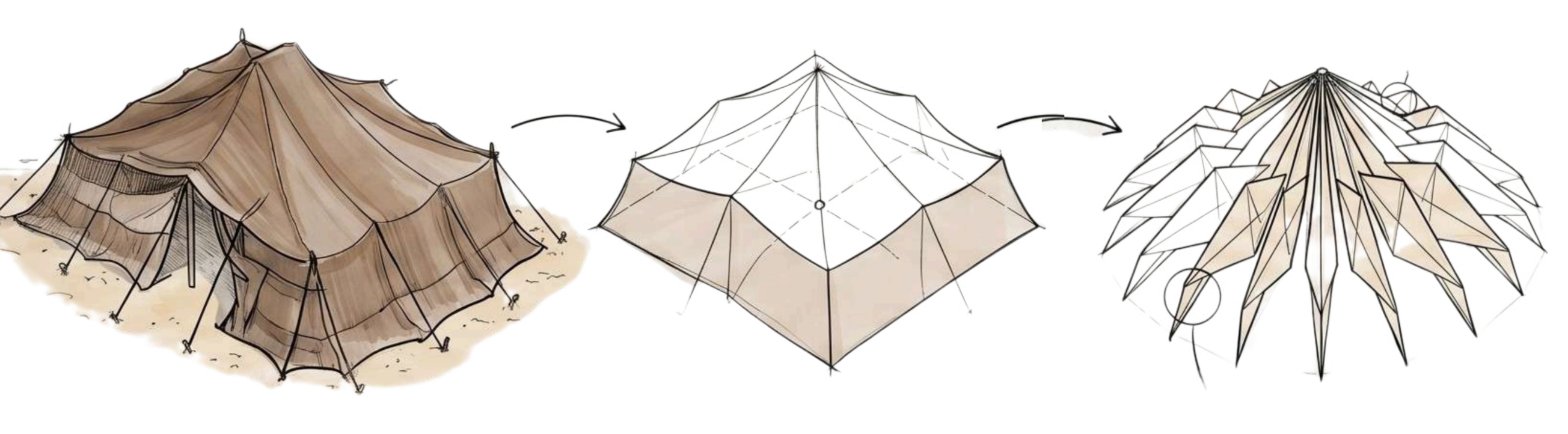


The site layout is derived from the astronomical principles associated with the ancient Egyptian pyramids. Inspired by theories suggesting that the pyramids were aligned with specific stars and constellations, the project's spatial organization follows celestial references. Building masses and primary axes are positioned according to these astronomical alignments, establishing a connection between ancient cosmic knowledge and contemporary architectural design.

As a result, the project merges the spatial heritage of Bedouin culture with the cosmological understanding of Ancient Egypt, creating a contemporary architectural expression deeply rooted in its cultural and environmental context.

Site Plan Diagram

Axonometric Diagram





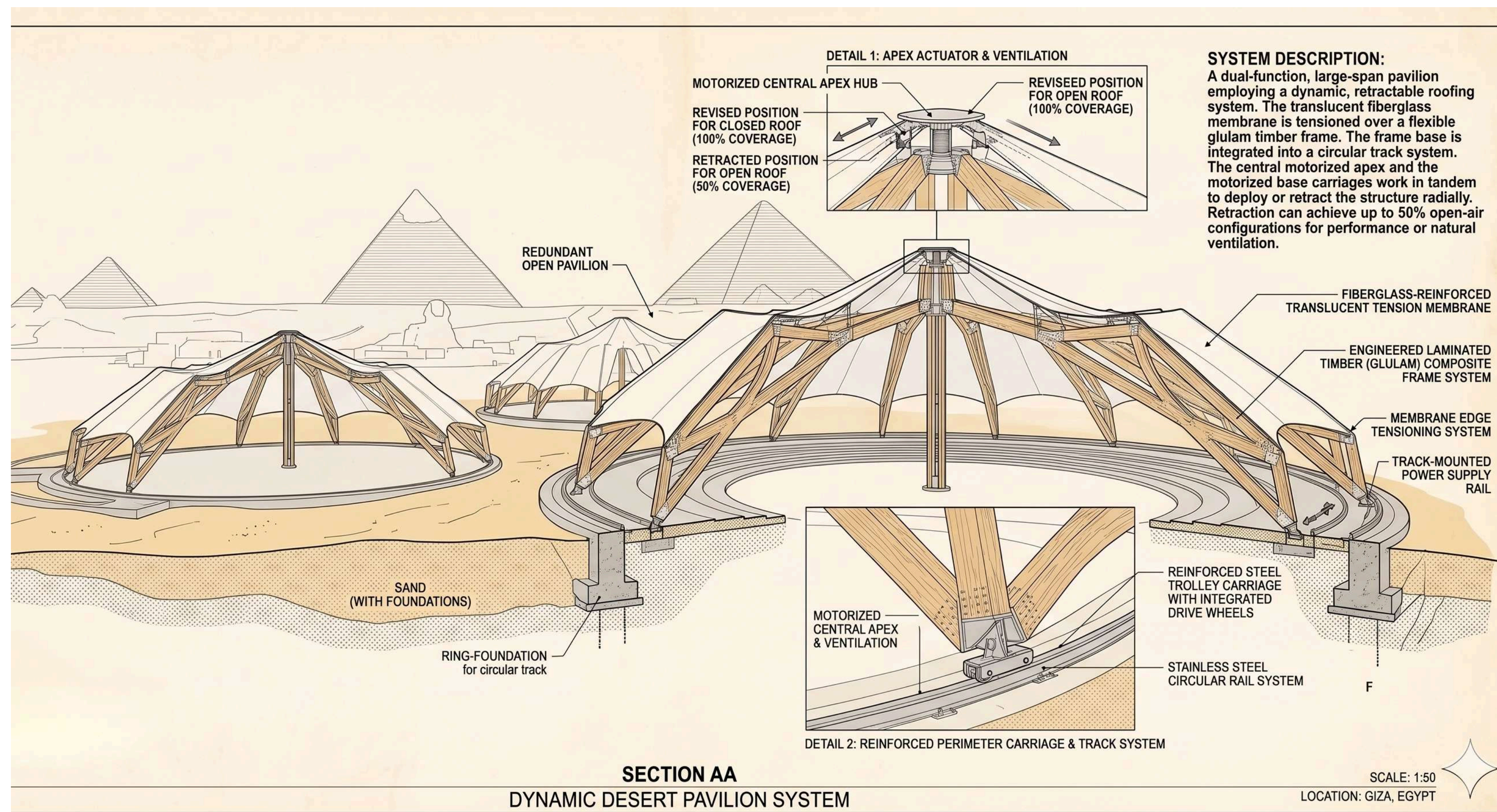
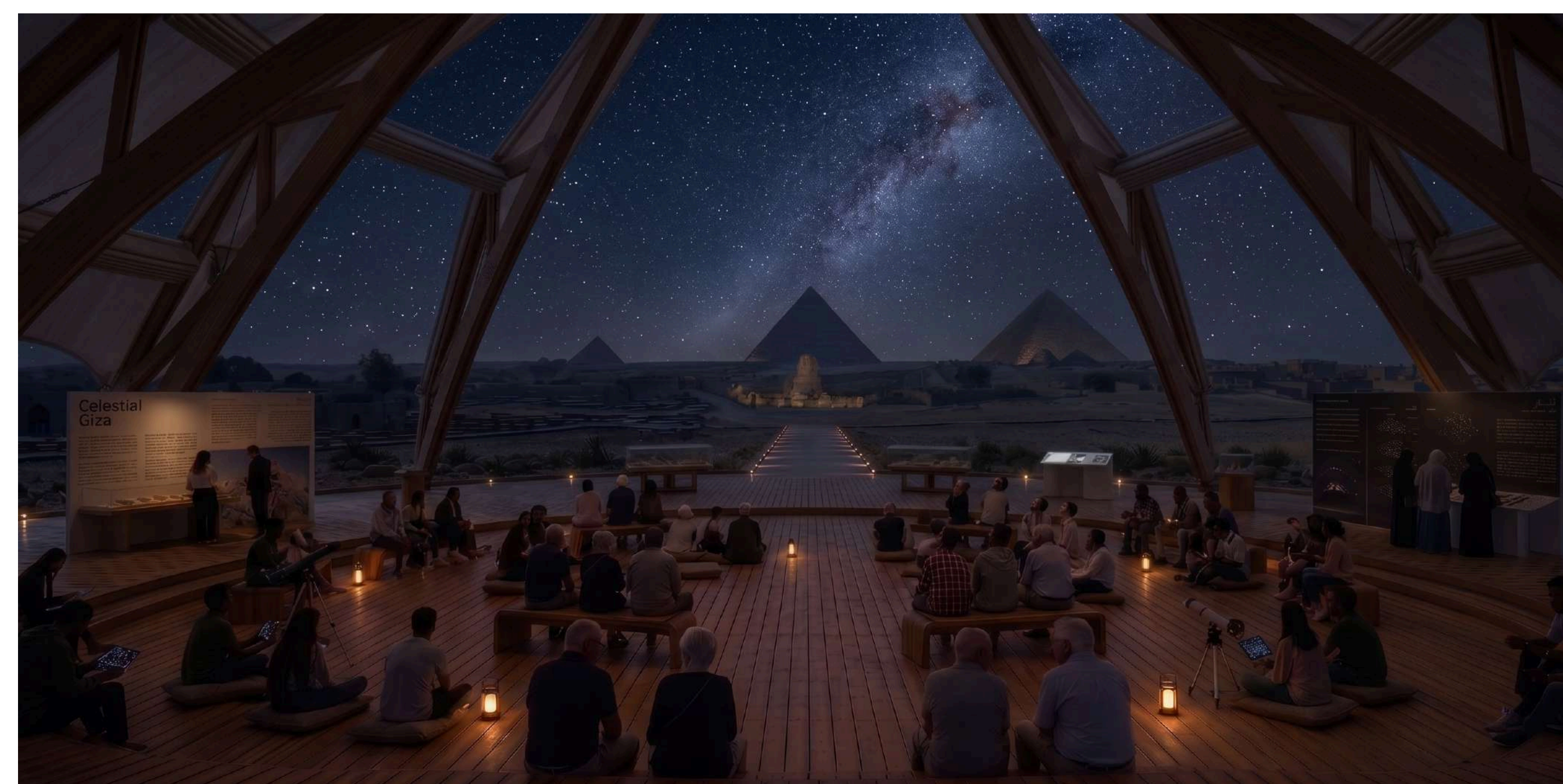
Disaster Scenario

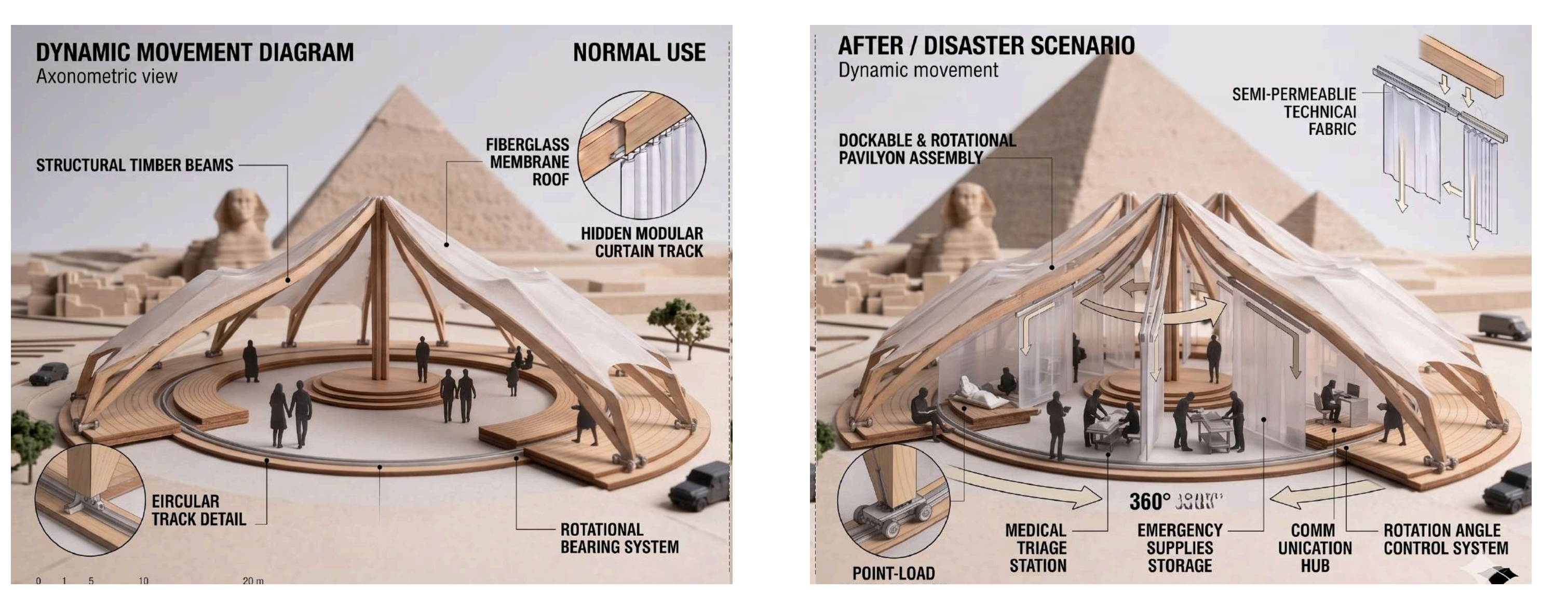
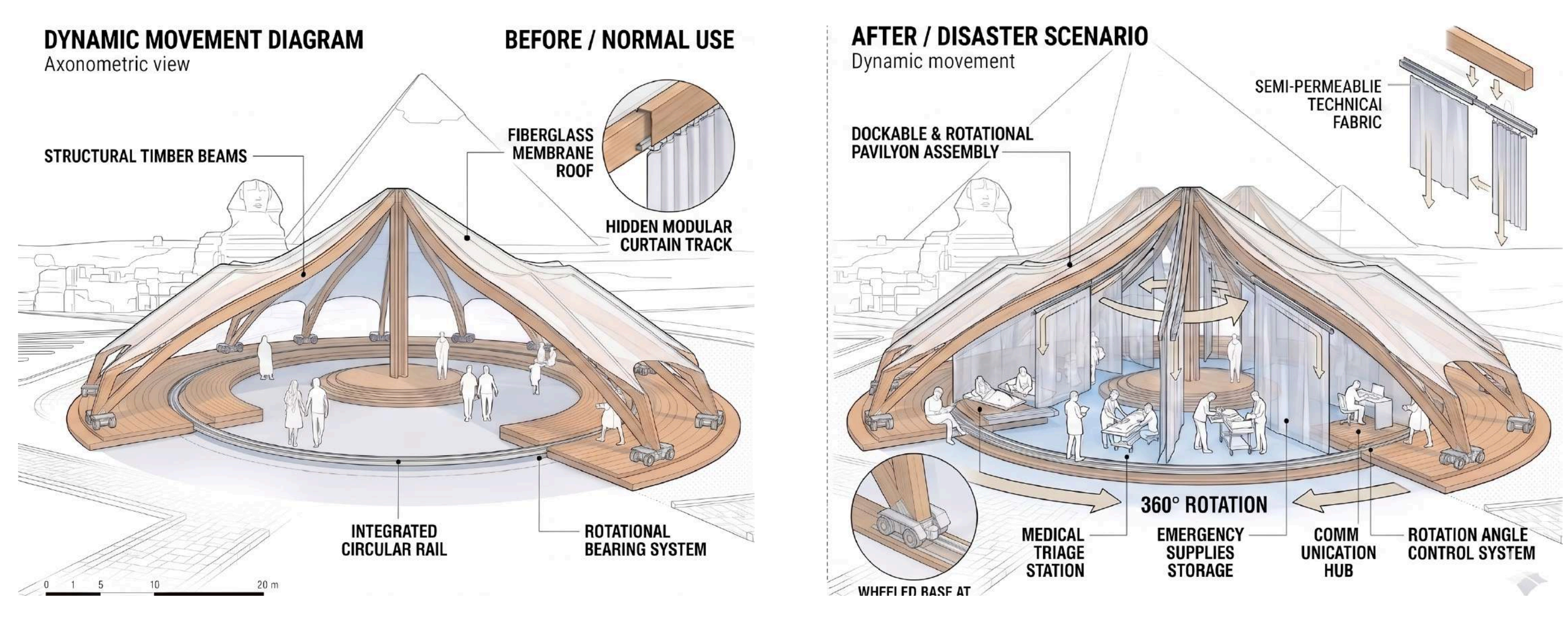
FOLDRA

The project features a flexible spatial organization that can adapt to environmental conditions and changing user needs throughout the year. Its responsive canopy system creates open, semi-open, and enclosed configurations, allowing the space to transform according to seasonal and functional requirements.

In its fully open state, the structure establishes a direct connection with the sky, providing an ideal setting for stargazing and astronomy-related events. Semi-open and enclosed configurations support a variety of activities, including hieroglyphic writing workshops, traditional Egyptian fragrance and aroma experiences, cultural exhibitions, educational programs, and community gatherings.

As a result, the project functions not only as a physically transformable structure but also as a dynamic public space that communicates Egypt's historical, cultural, and astronomical heritage through diverse user experiences.



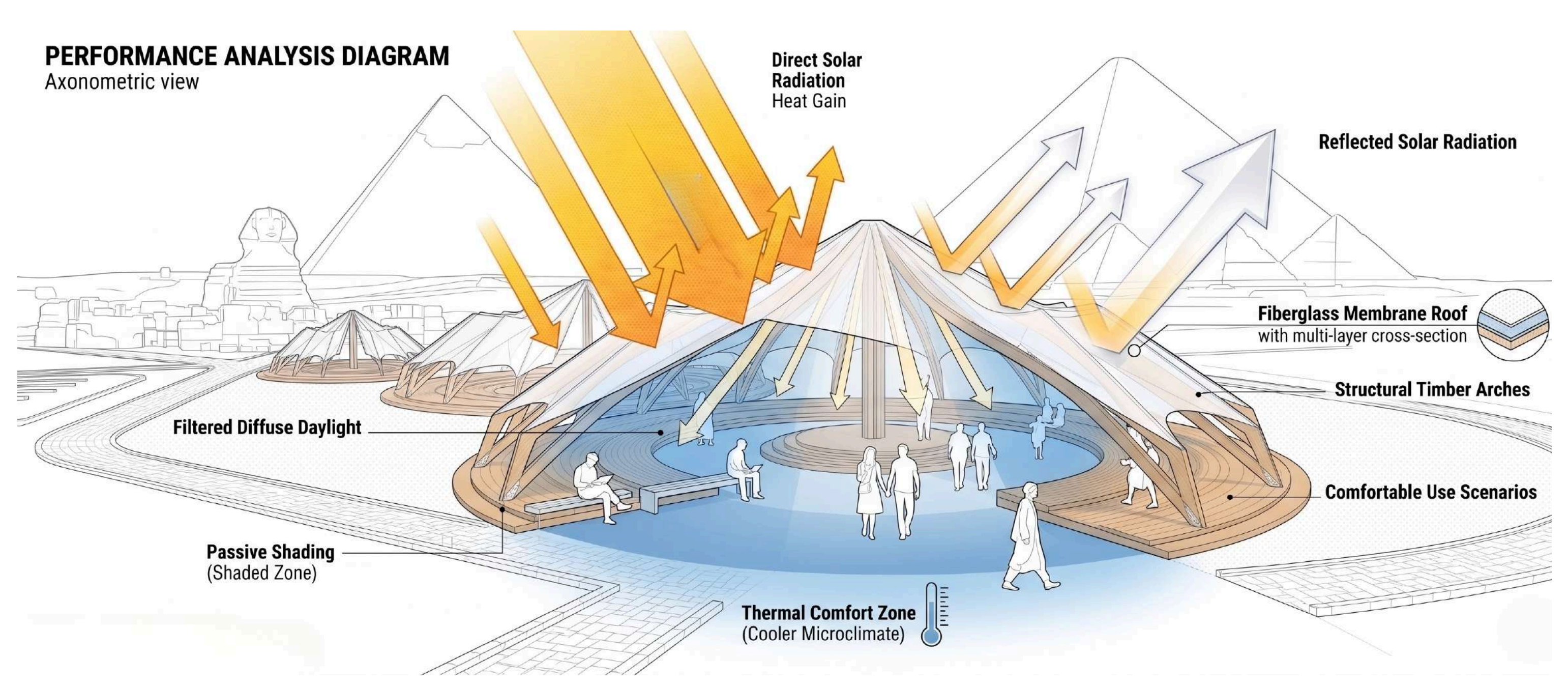


FOLDRA

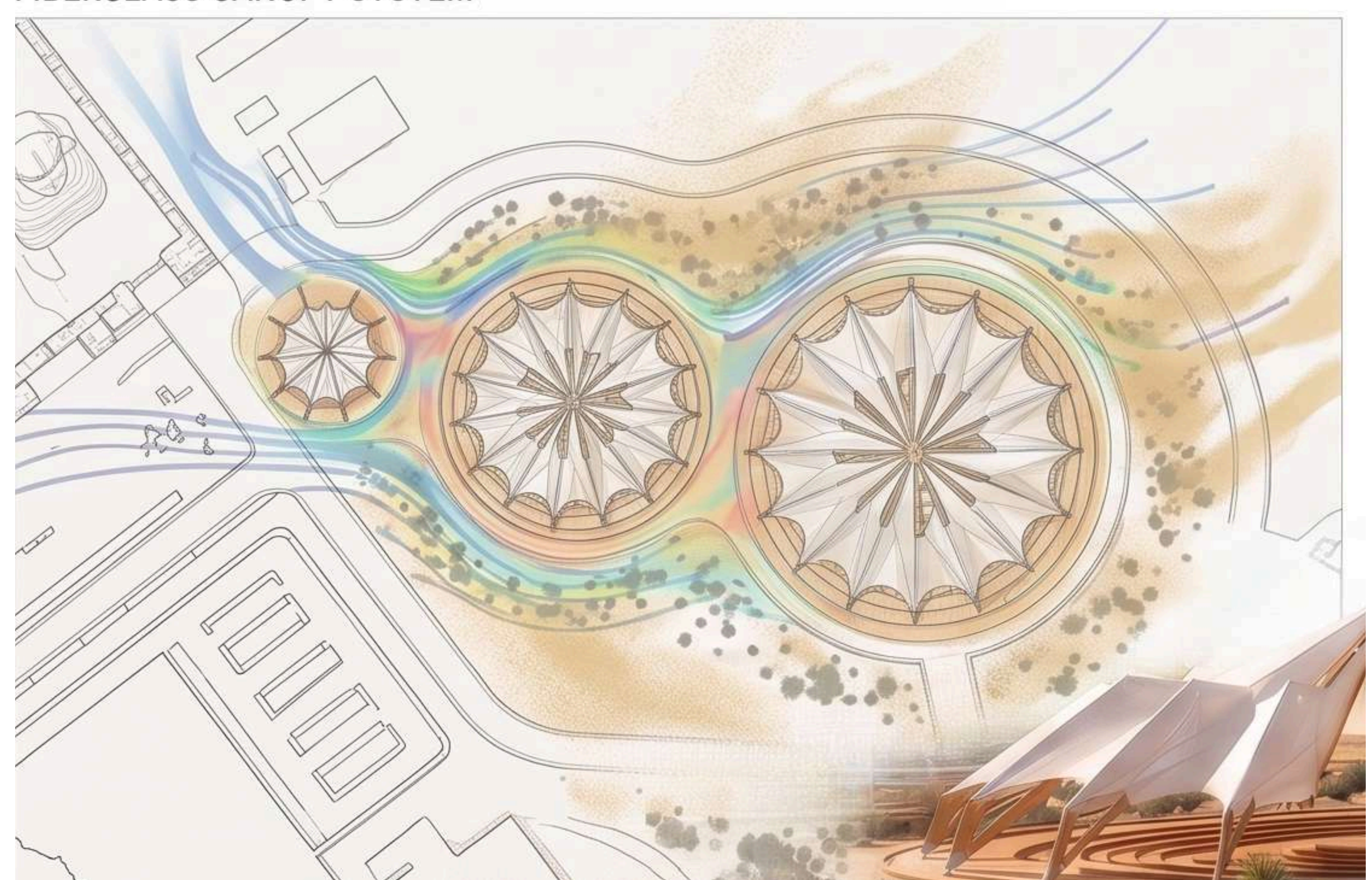
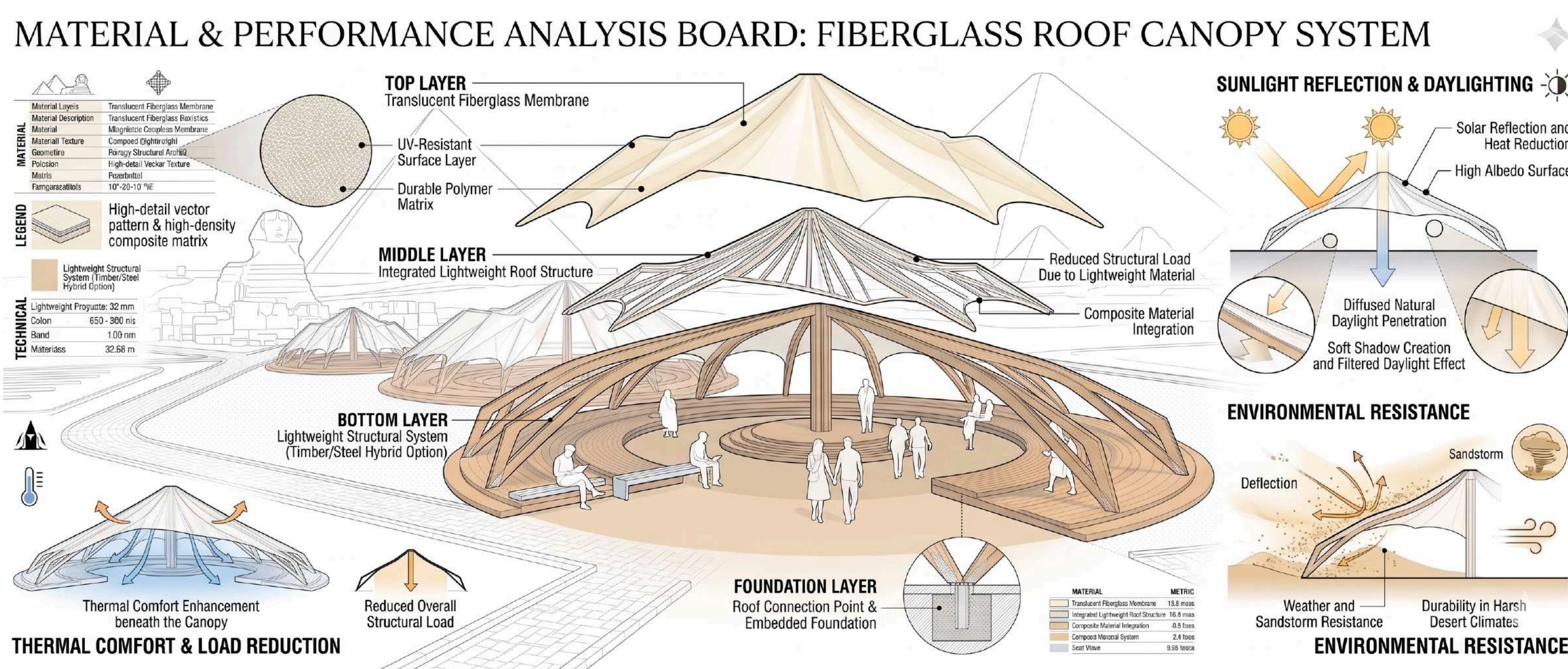
The high-reflectivity fibreglass canopy deflects intense solar radiation, drastically reducing thermal heat gain beneath the structure. Its smooth, non-porous surface combined with aerodynamic geometry ensures that sand grains glide off the surface during sandstorms rather than accumulating.

This self-cleaning behavior effectively prevents heavy dead-load buildup on the structural frame and minimizes long-term material abrasion. Consequently, it provides a highly sustainable, low-maintenance protective shield designed to endure the harshest desert elements.

Cascading from the main timber trusses, the integrated curtain system acts as a dynamic divider that provides flexible spatial zoning based on functional or climatic needs throughout the day. By slowing down harsh desert drafts and capturing airborne dust particles, these architectural drapes establish a shaded, tempered, and highly comfortable microclimate underneath the canopy. Furthermore, the beautifully diffused natural daylight filtering through the roof plays across these moving textile surfaces, creating a serene and poetic interplay of light and shadow within the pavilion.

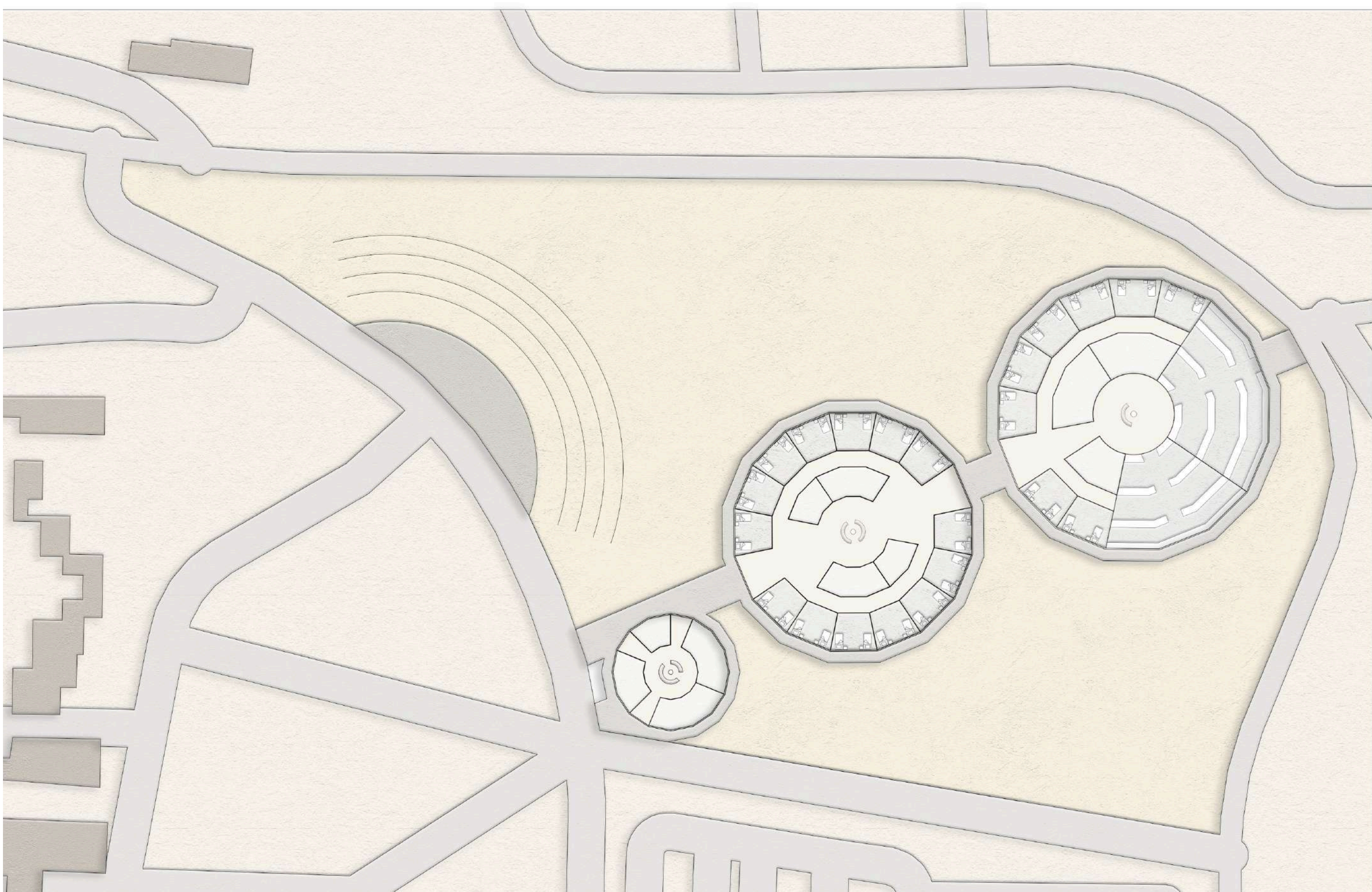


PERFORMANCE OVERVIEW: DESERT CLIMATE ADAPTATION FIBERGLASS CANOPY SYSTEM

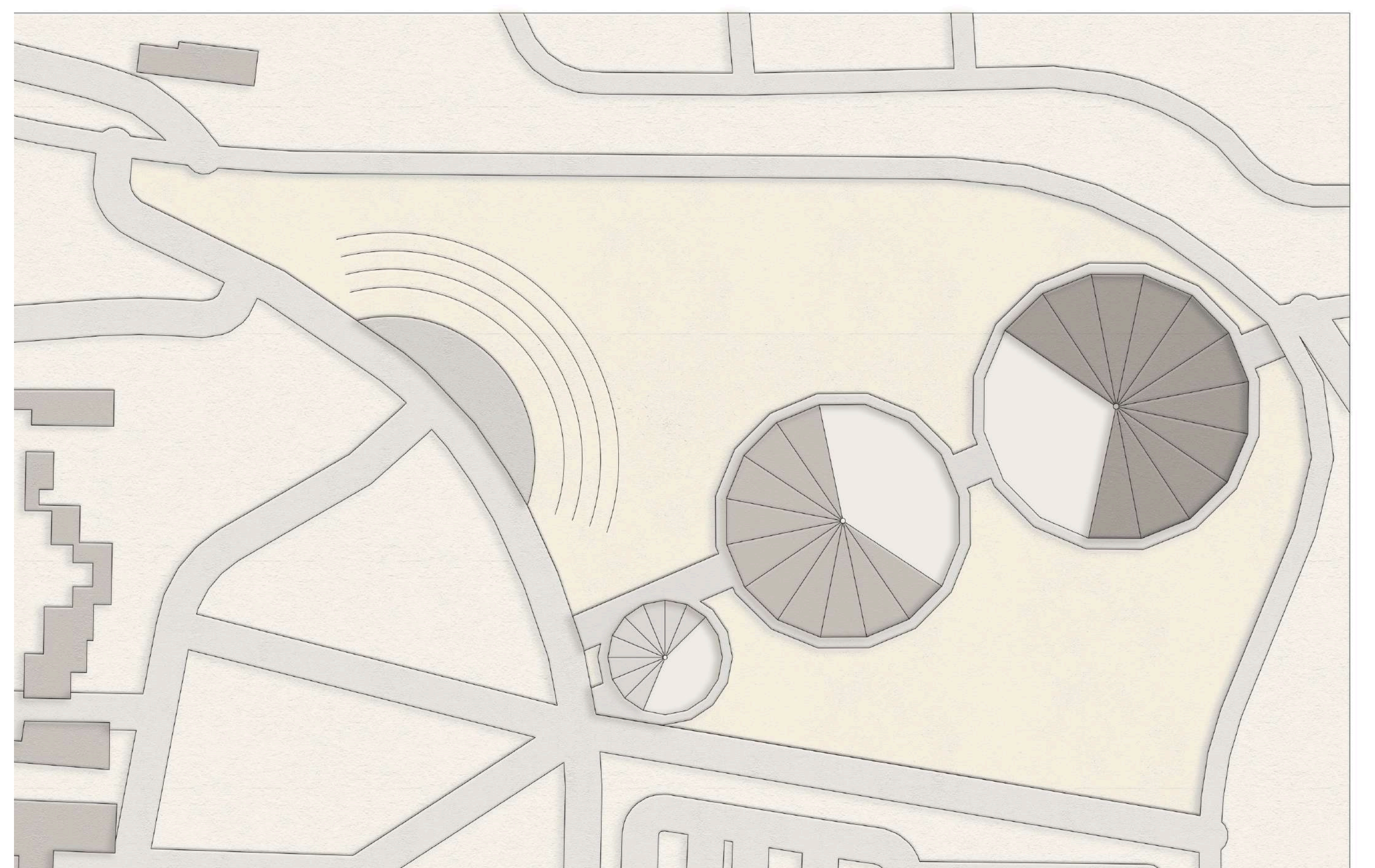




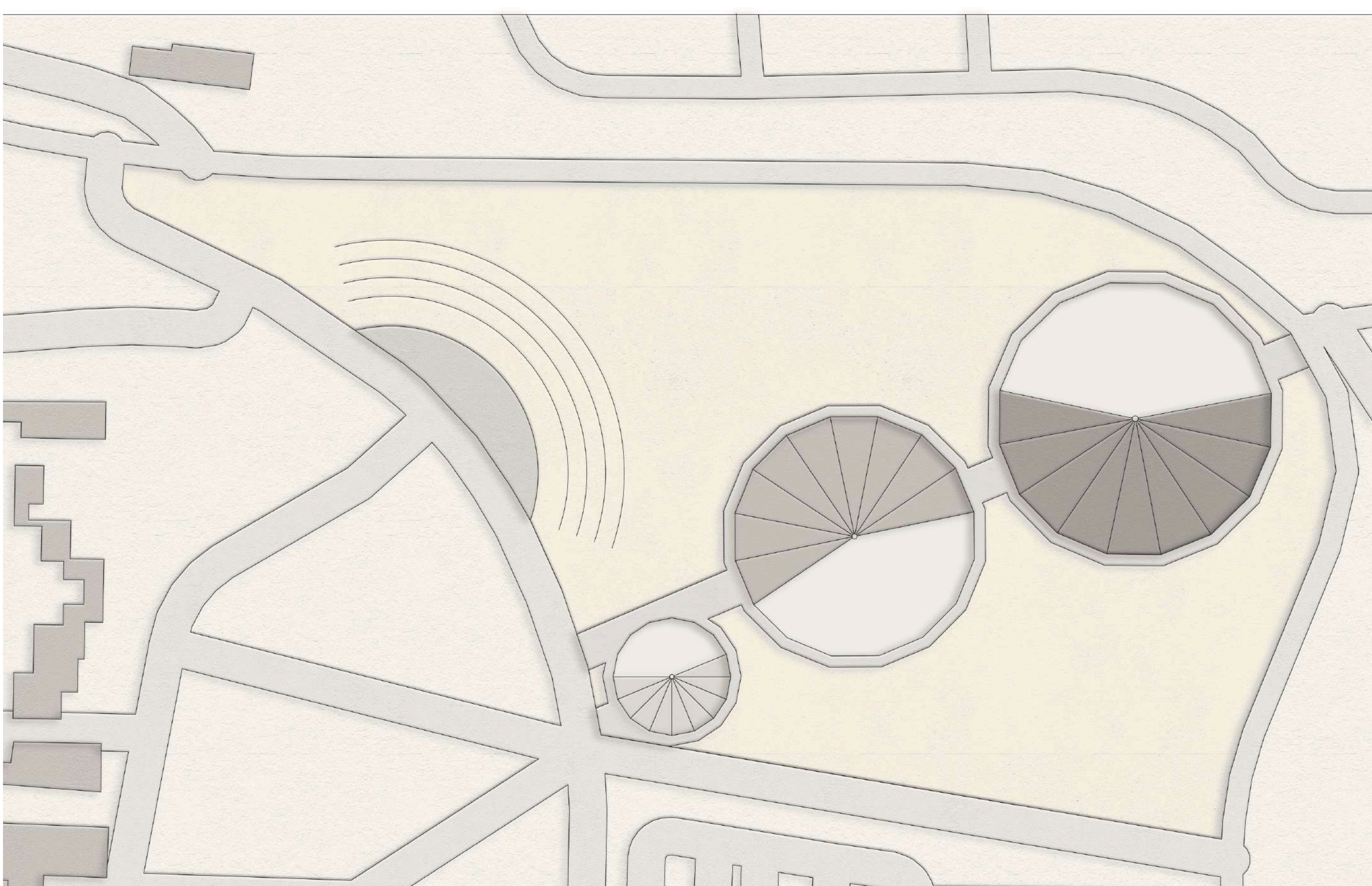
Site Plan 1/500



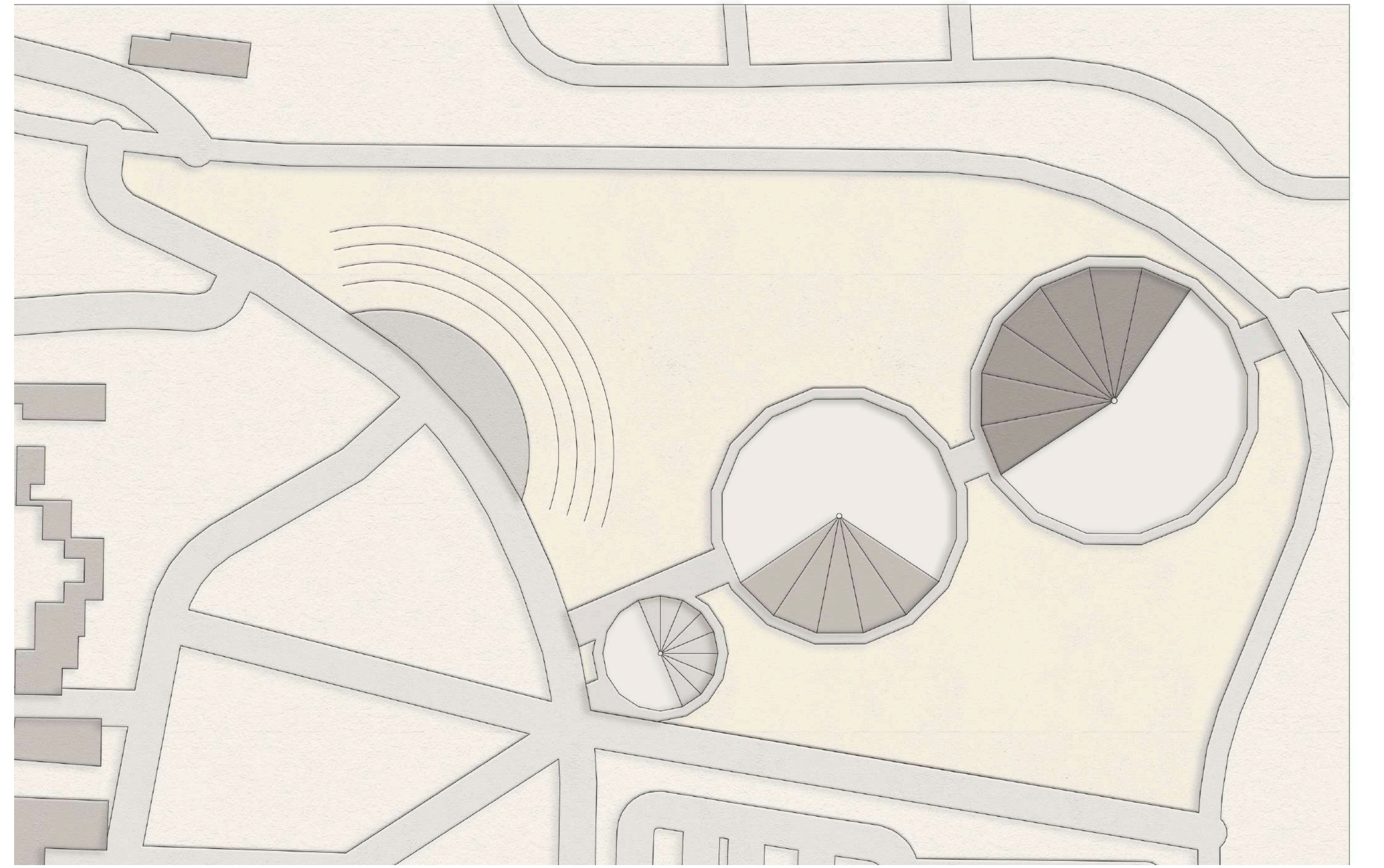
Floor Plan 1/500



Alternative Site Plan 1/500



Alternative Site Plan 1/500



Alternative Site Plan 1/500