

NGU THI HONG LE | DARA LE

P O R T F O L I O

# TABLE OF CONTENTS

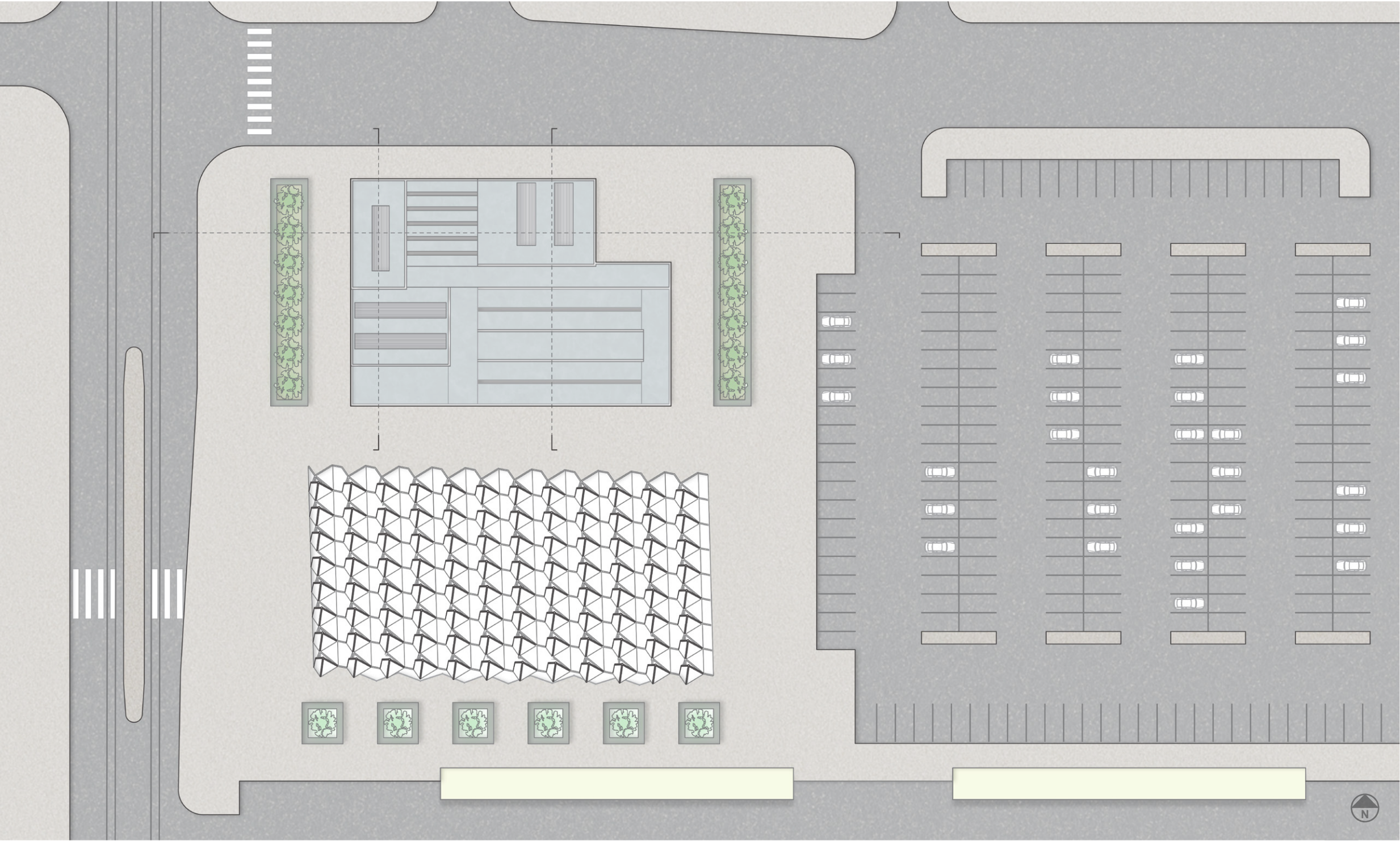
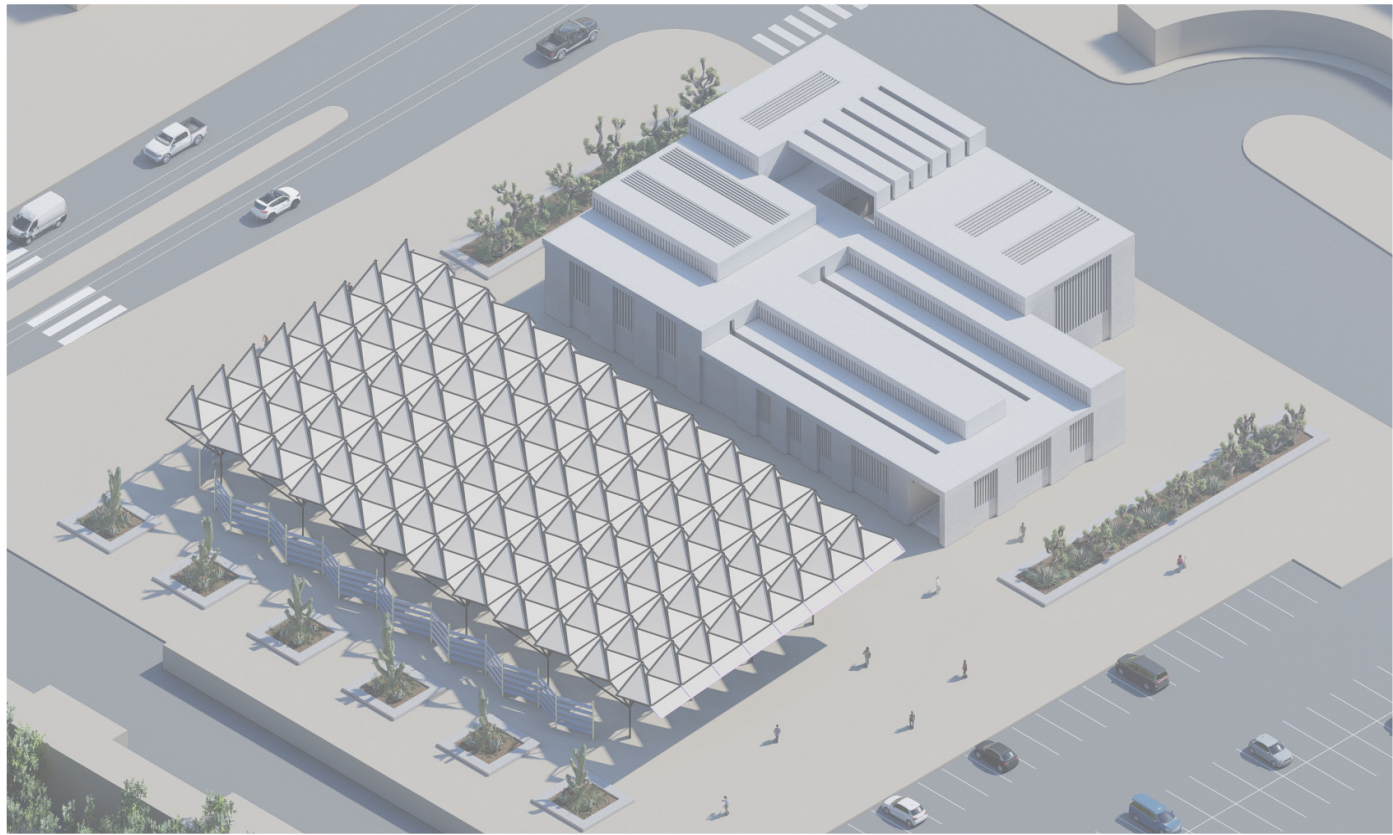
SONORAN BLUE STEAM   TUCSON   ARIZONA	04
ROTUNDA OF WONDER   TUCSON   ARIZONA	14
GREEN CABIN   MOUNT LEMMON   ARIZONA	24
KIBERA COMMUNITY CENTRE   KIBERA   NAIROBI   KENYA	34



# SONORAN BLUE STEAM

TUCSON | ARIZONA | UNITED STATES

Within the arid climate of Tucson, Sonoran Blue Steam emerged as a discreet public bathhouse that offers massage and bathing experiences for desert dwellers. Consisting of five public pools and a large massage room, the Sonoran Blue Steam accommodates its visitors with the choice of hot to cold pool dipping. In contrast with the warm and bright color of Tucson, the interior of the Sonoran Blue Steam embrace a hue of blue reflected pool water and steam, allowing a relaxing, well-protected, and discrete bathing atmosphere.

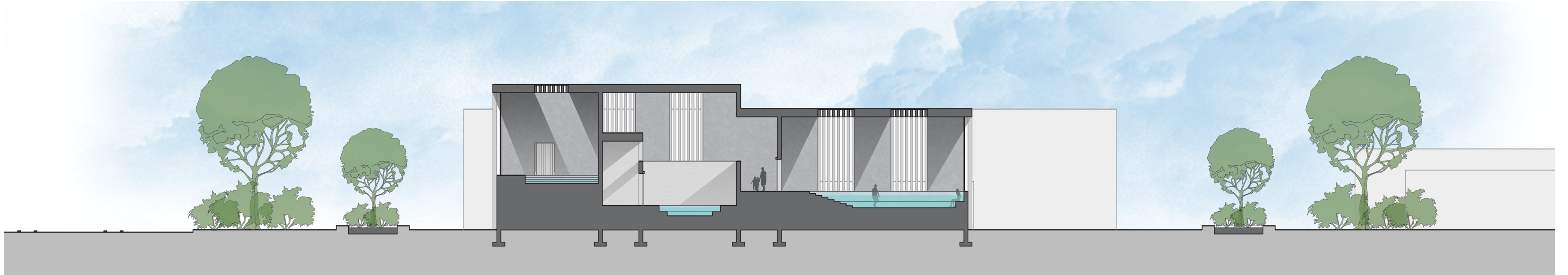
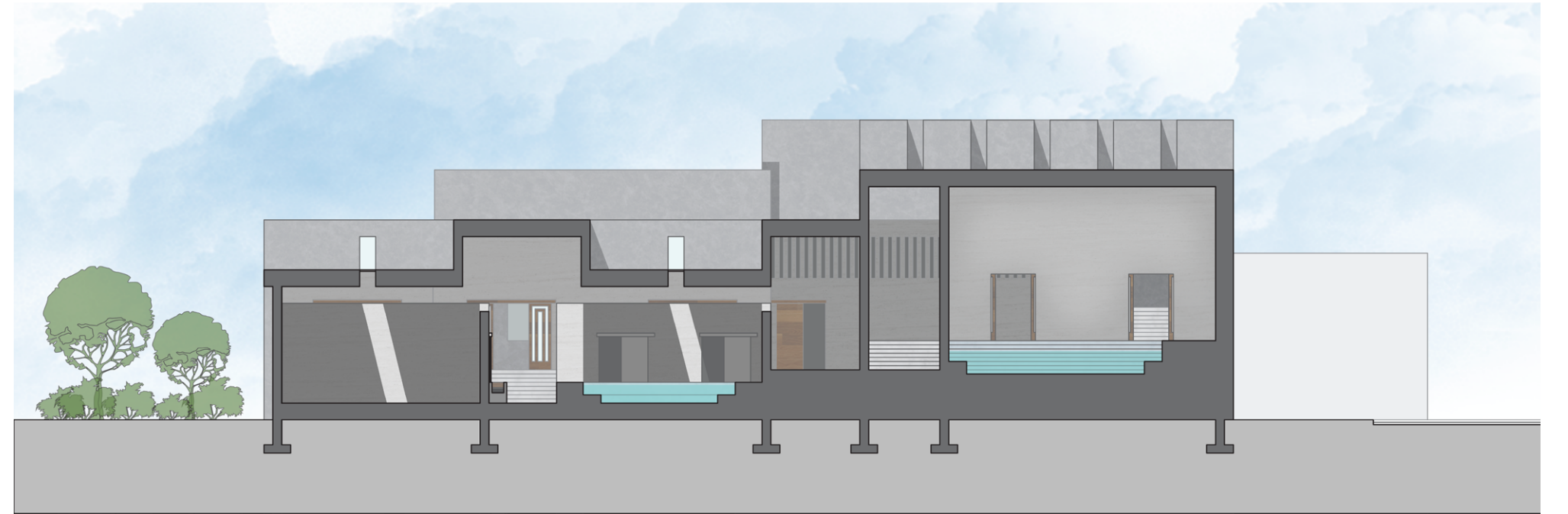
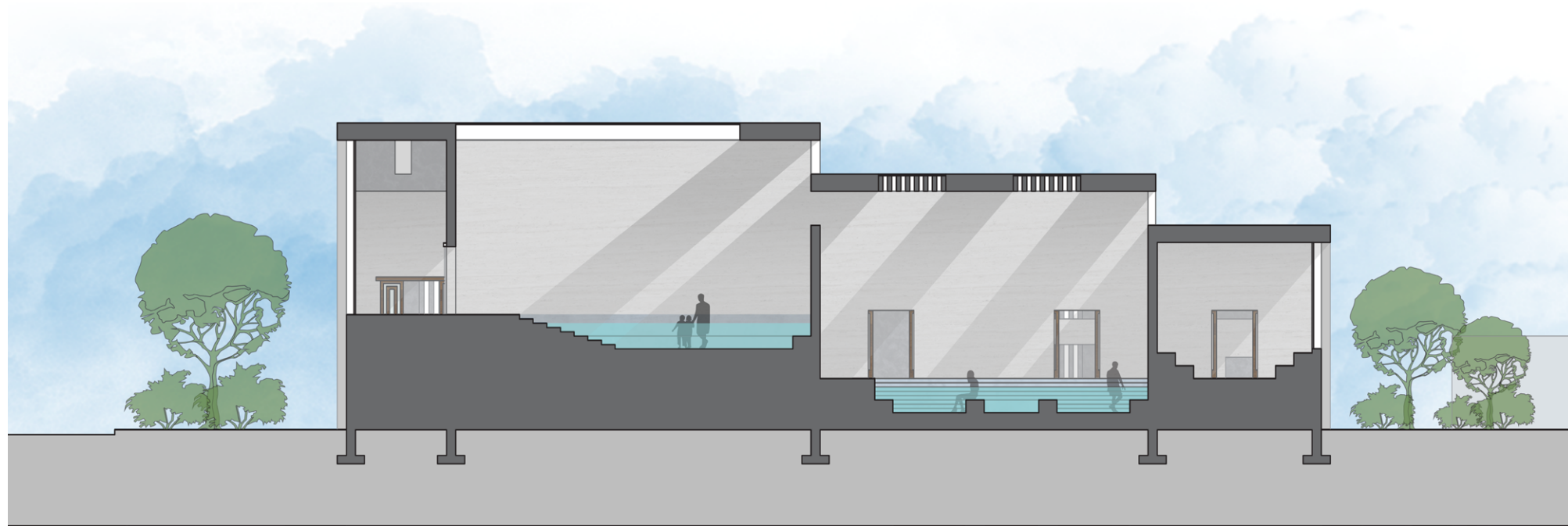




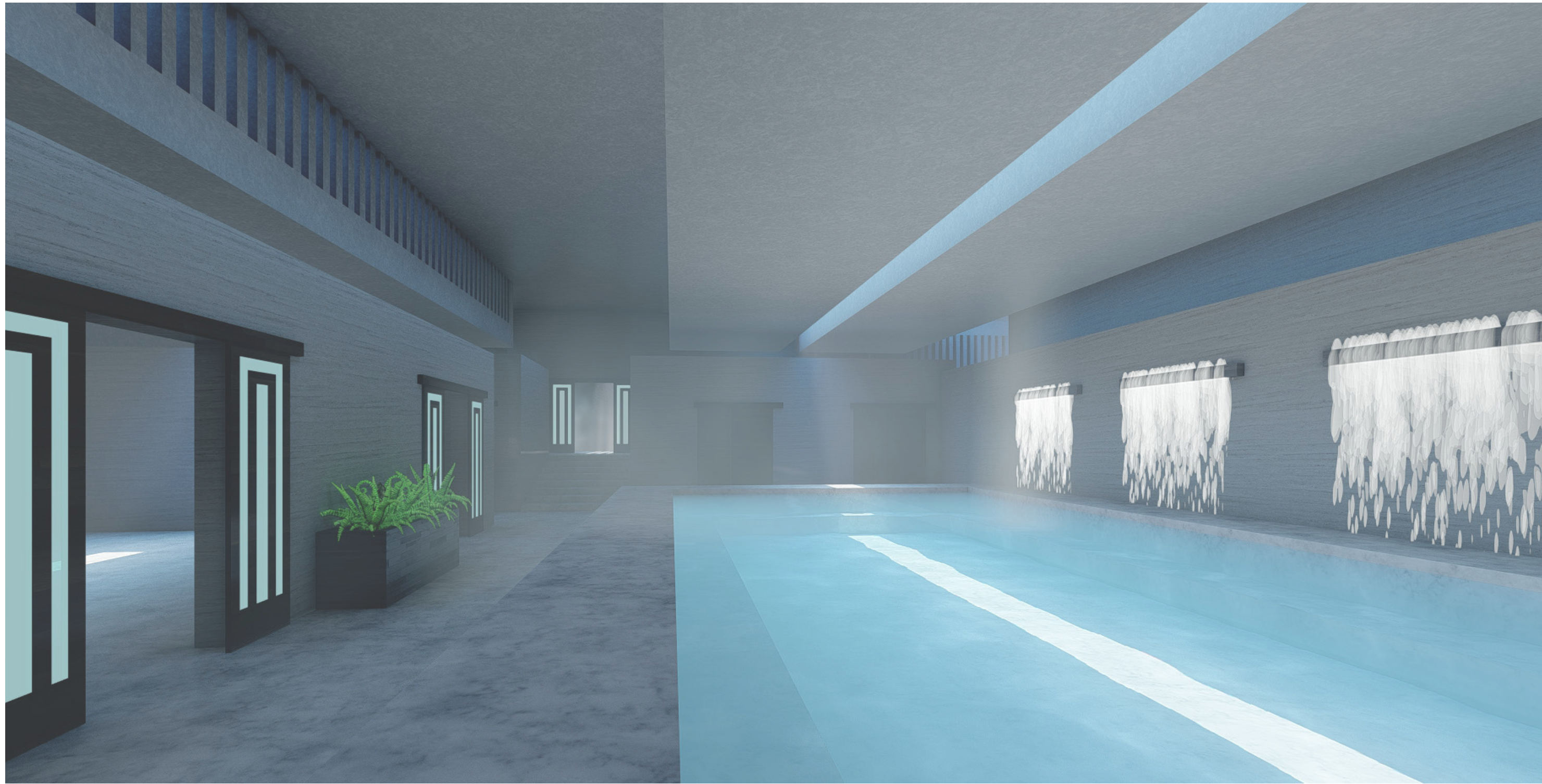
PROGRAM + FLOOR PLAN



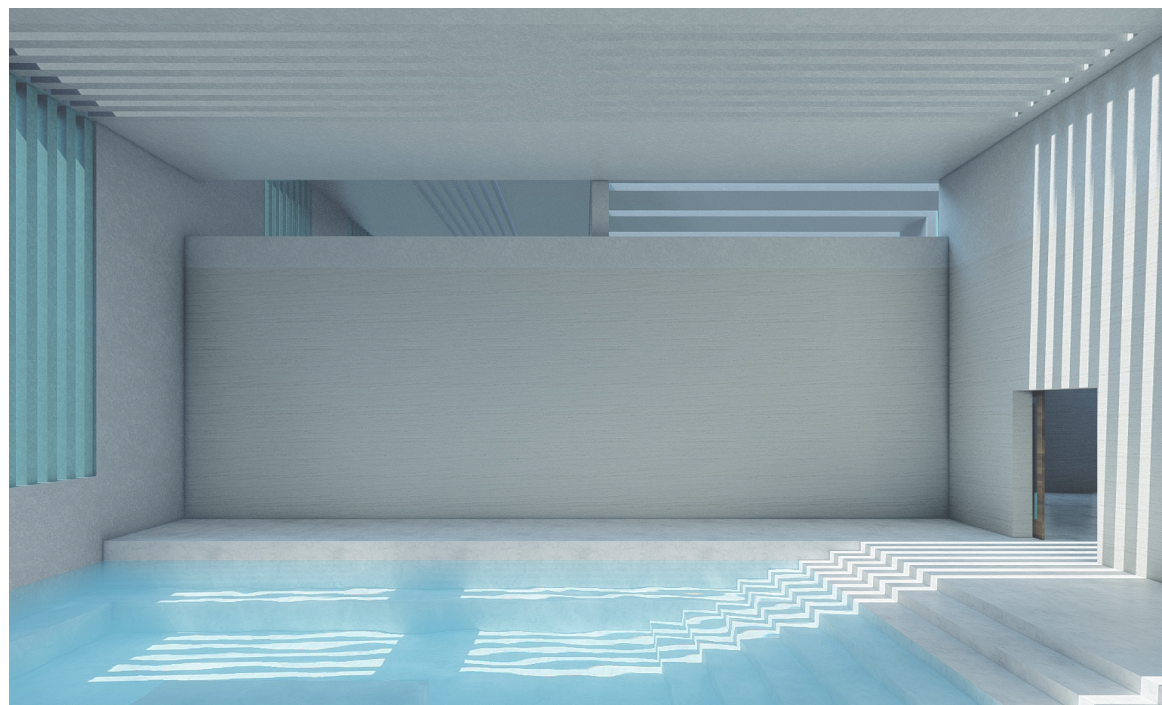






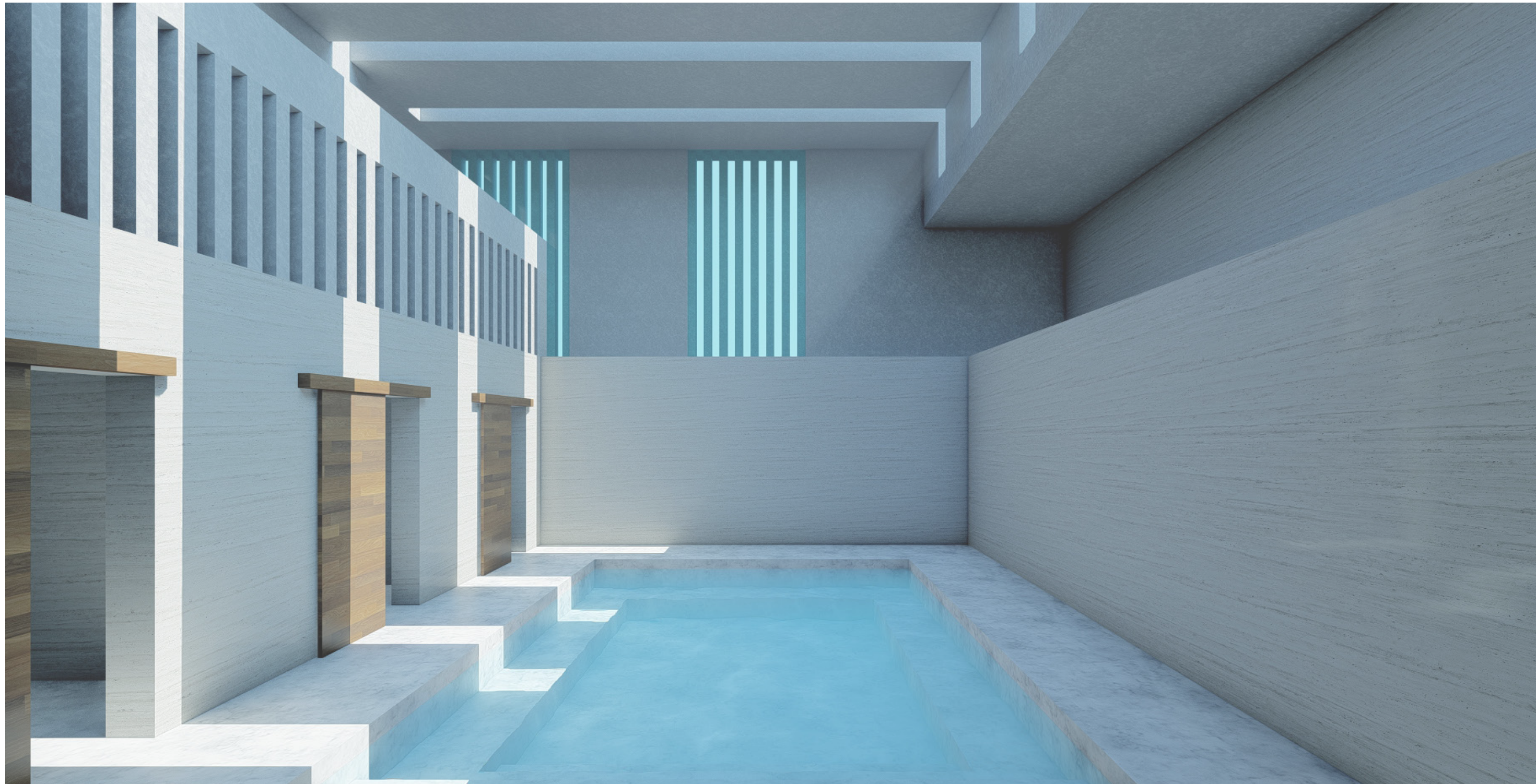


10 SONORAN BLUE STEAM | TUCSON | ARIZONA

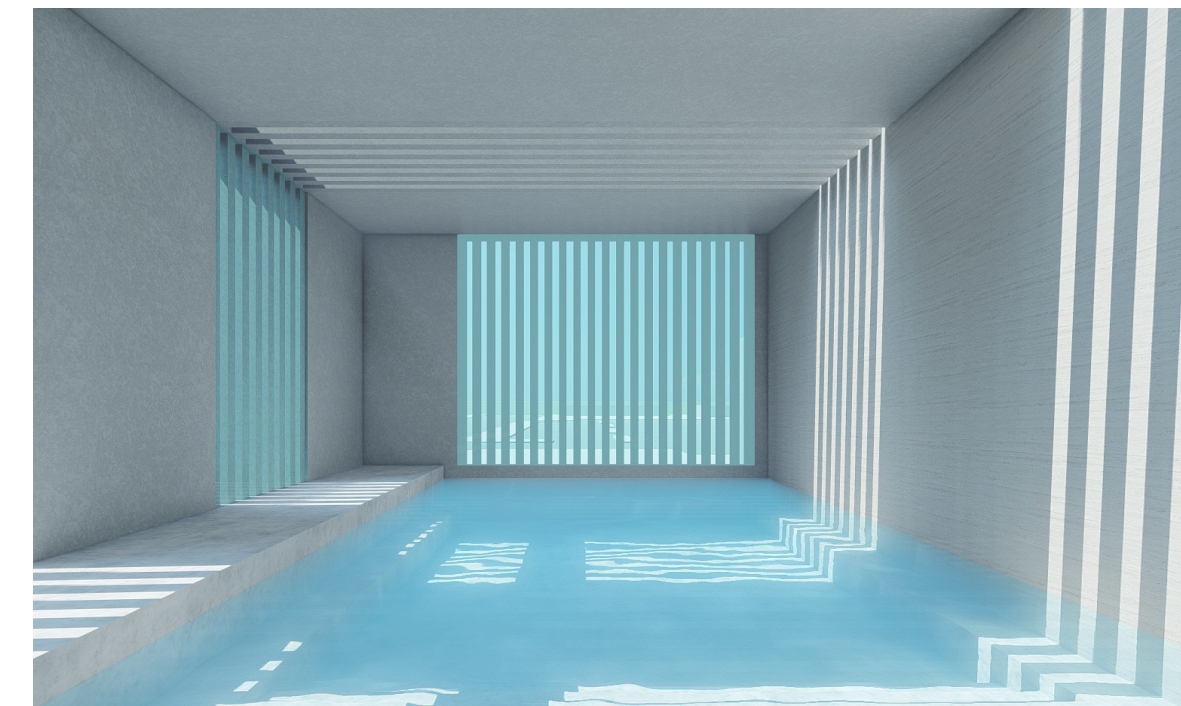


SONORAN BLUE STEAM | TUCSON | ARIZONA 11





12 SONORAN BLUE STEAM | TUCSON | ARIZONA



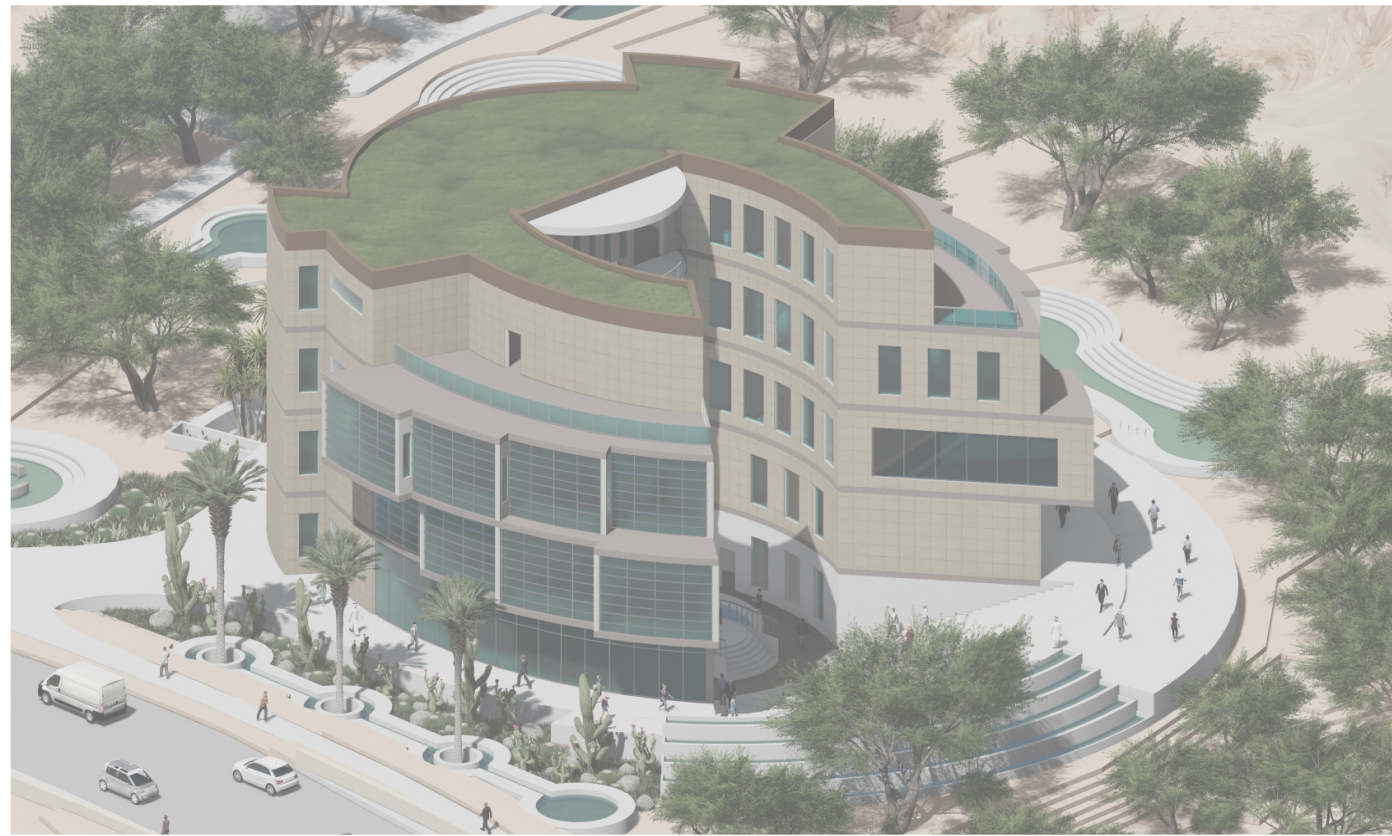
SONORAN BLUE STEAM | TUCSON | ARIZONA 13



# ROTUNDA OF WONDER

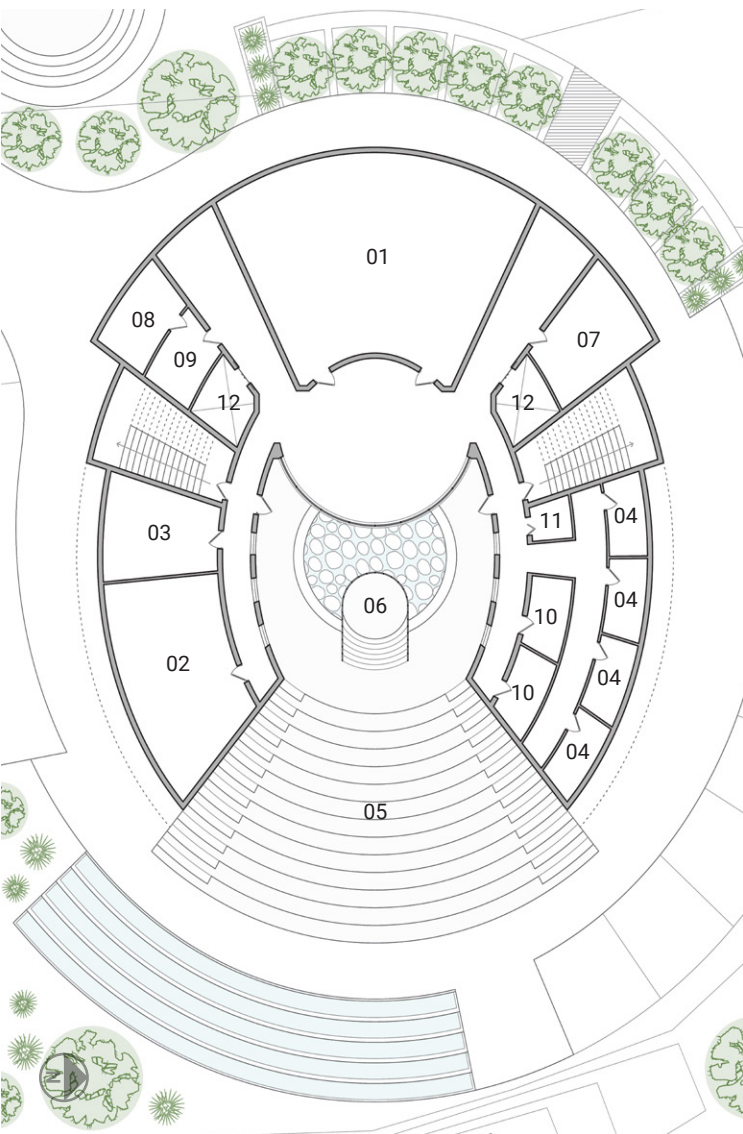
TUCSON | ARIZONA | UNITED STATES

The Sonoran Desert is known for its sacred cycles of monsoons and droughts. The Rotunda of Wonder is presented as an educational expression for addressing architectural performance in response to the arid environment. Located west of the Santa Cruz River and adjacent to the Sun Link streetcar station, the Rotunda of the Wonder is presented as a large gathering facility that hosts teachings, research, exhibitions, and special occasions. Standing out from the nearby structures, the Rotunda of Wonder is an experimentation with building typology and arrangement of space. Where the challenge of program configuration is addressed in each separate level of the building.

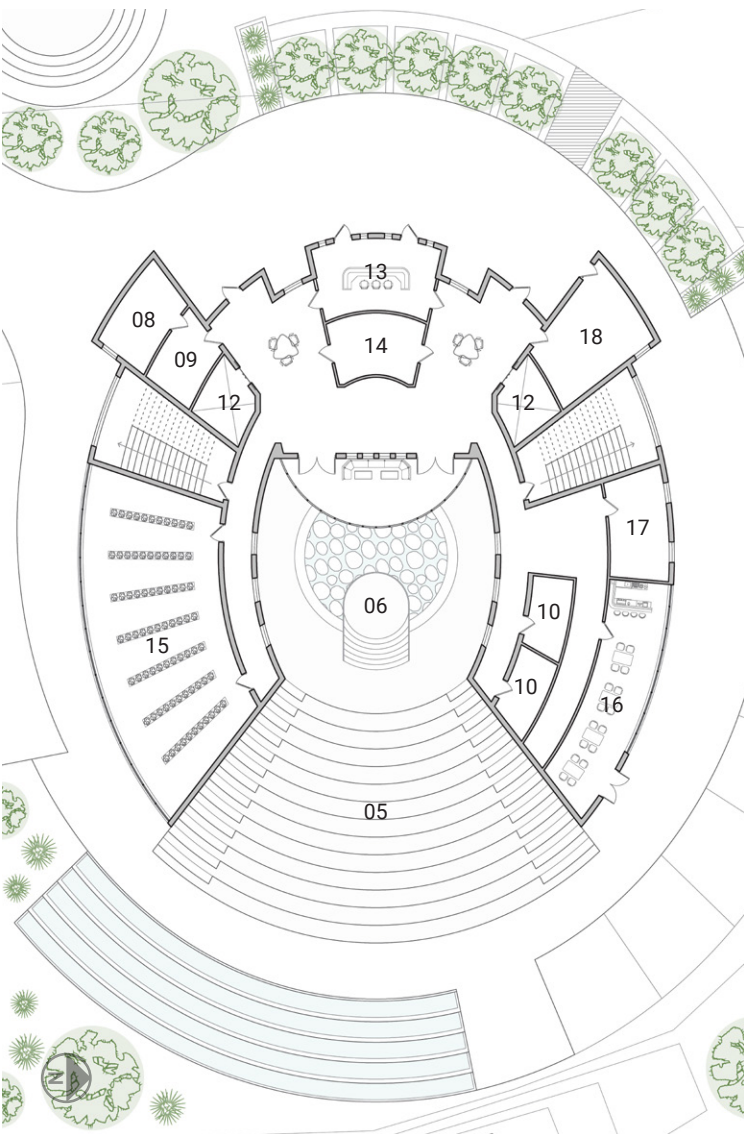




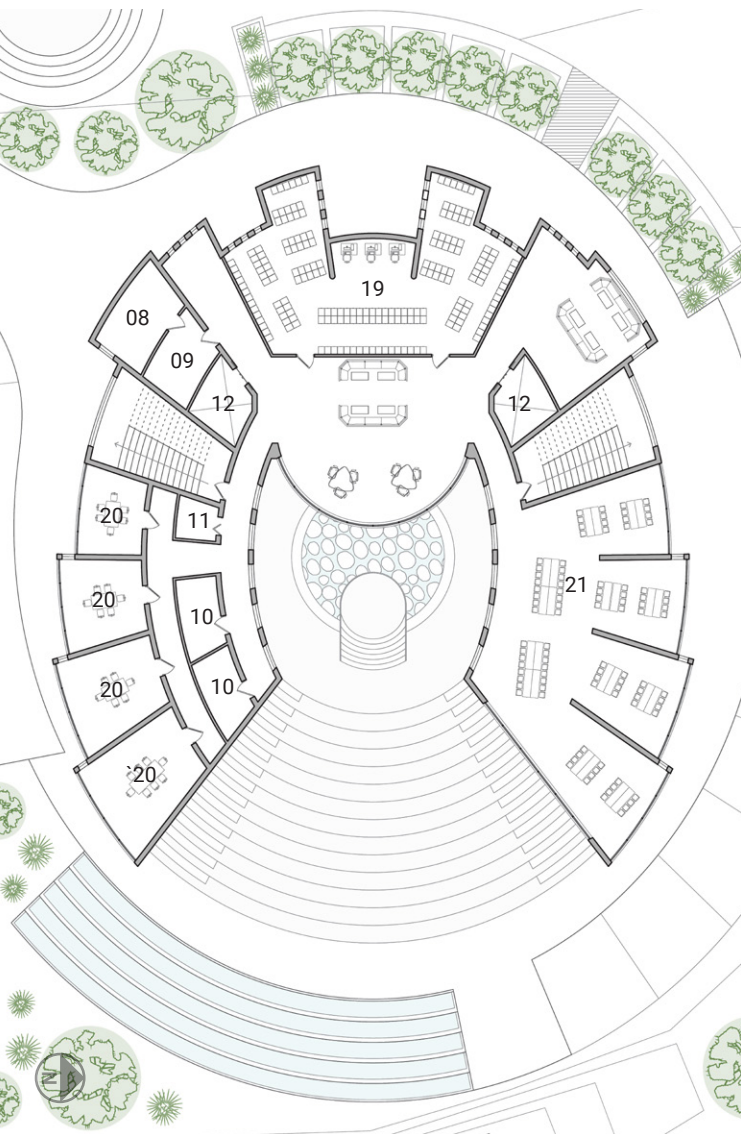
BASEMENT LEVEL



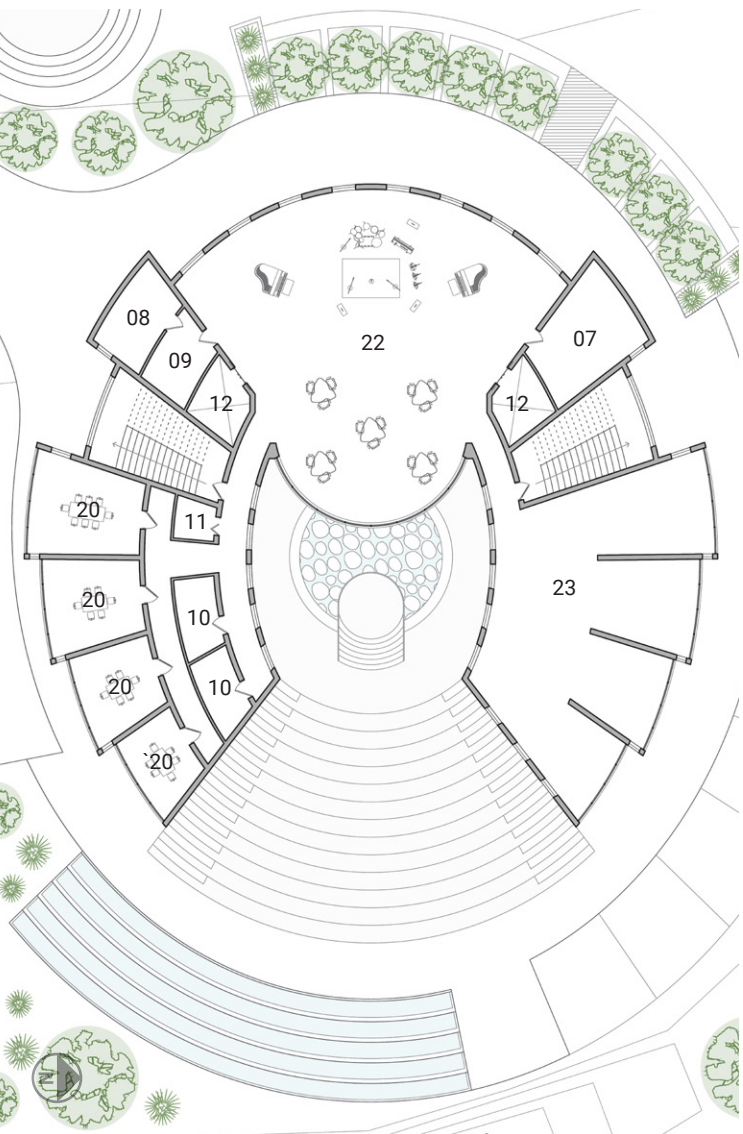
GROUND LEVEL



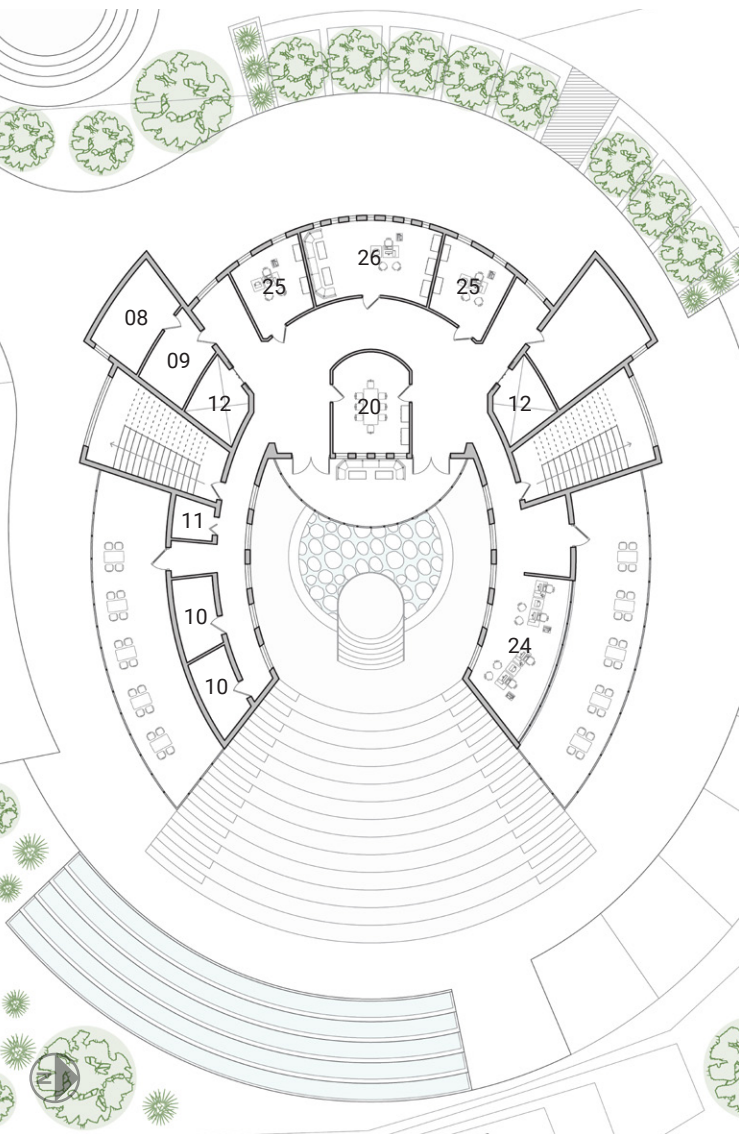
SECOND LEVEL



THIRD LEVEL



FOURTH LEVEL



- 01. Water quality lab
- 02. Computer room
- 03. IT office
- 04. Visiting researcher office
- 05. Amphitheater
- 06. Courtyard
- 07. HVAC equipment room

- 08. Main electrical room
- 09. Electrical distribution room
- 10. Restroom
- 11. Janitor closet
- 12. Elevator
- 13. Guest service desk
- 14. Shipping + receiving

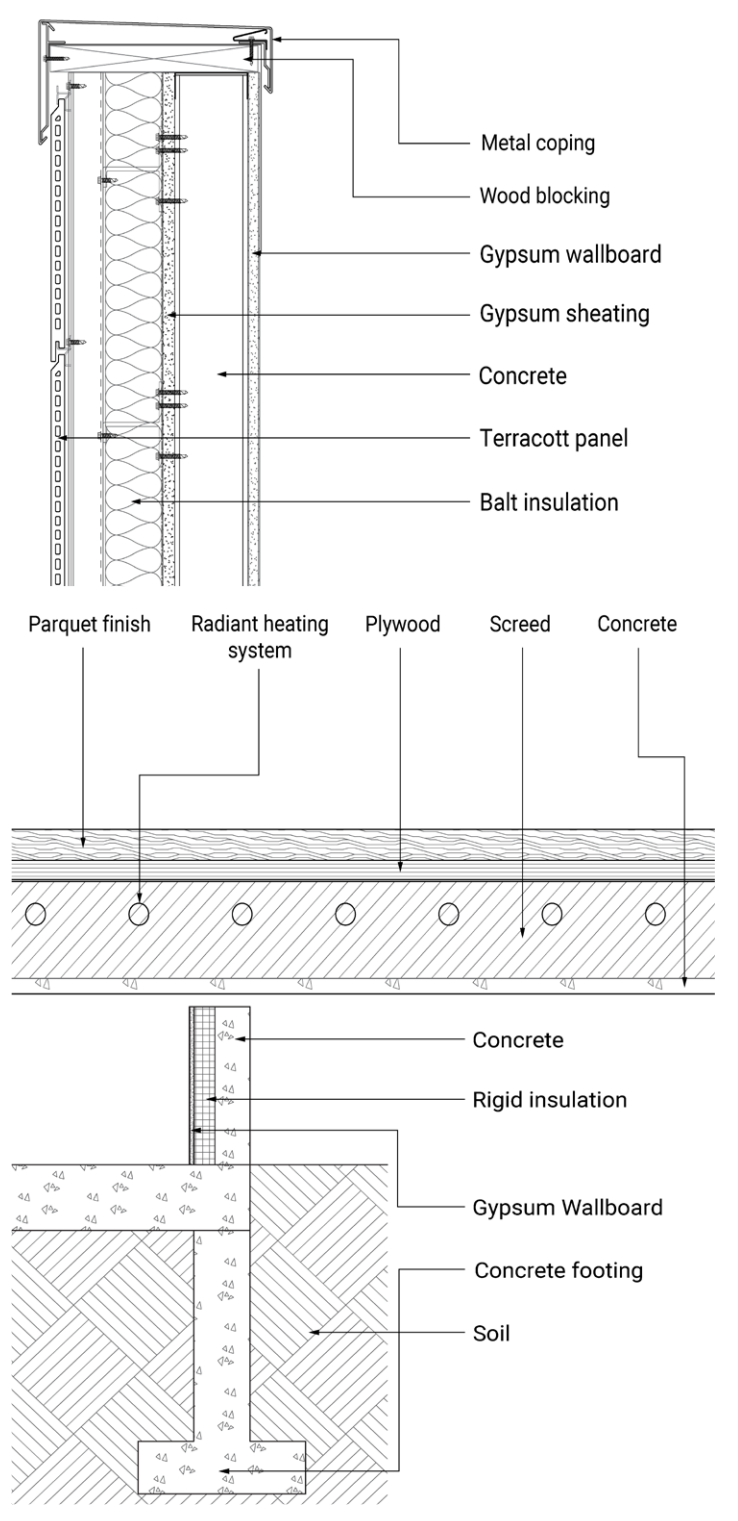
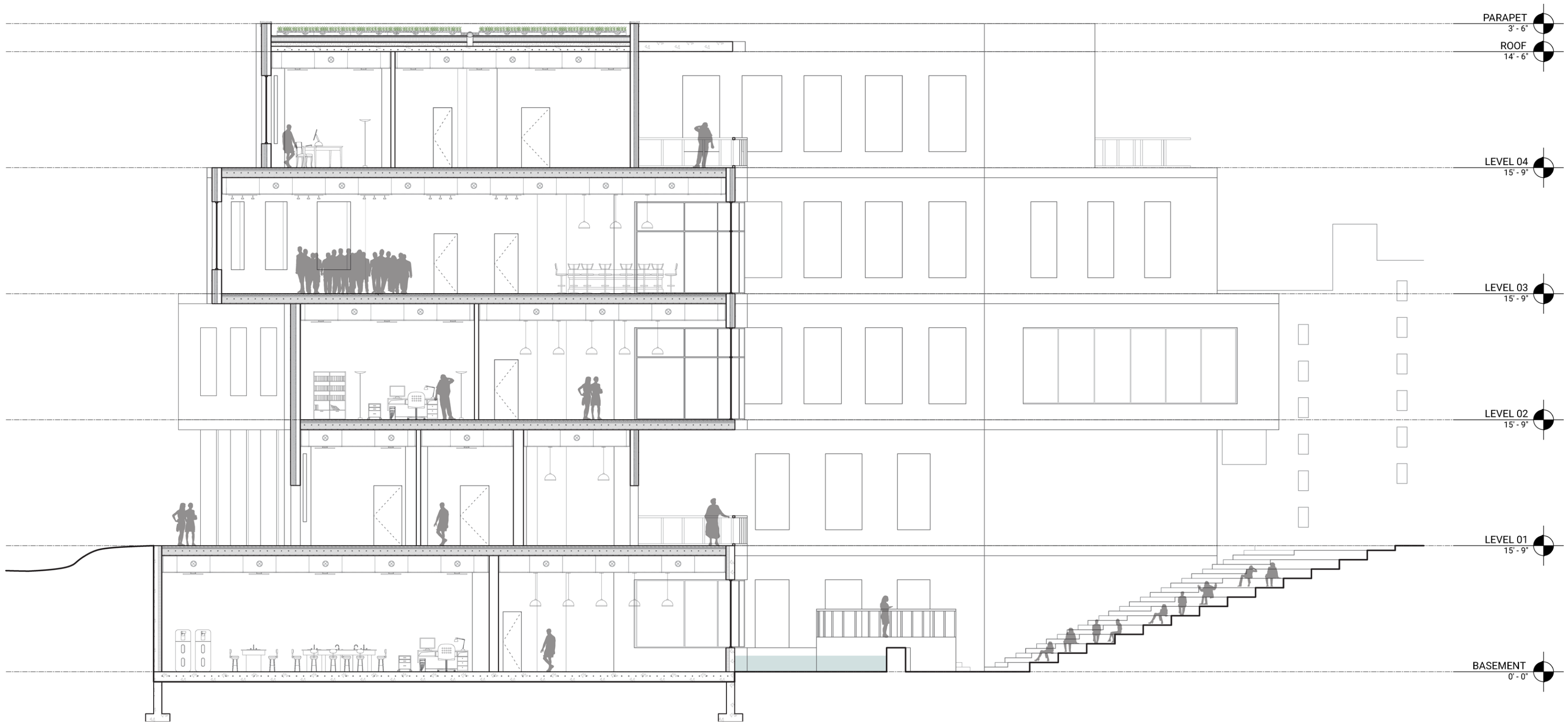
- 15. Hydroponics farm
- 16. Cafe seating
- 17. Cafe prep room
- 18. Fire riser room
- 19. Archive
- 20. Conference room
- 21. Workstation | classroom

- 22. Event space | ballroom
- 23. Gallery
- 24. Staff workstation
- 25. Staff office
- 26. Director office

Assigned by purposes, each level of the Rotunda of Wonder consists of corresponding programs characterized by the use of space, the density of activity, and the need for working or learning space.

For outdoor space, the amphitheater is the place of demonstration, where public speeches and entertainments take place. It is also where people can learn to explore their inner talents and passions.









#### DESIGN FOR EFFICIENCY

Drawing in natural light and reducing the use of electricity for artificial light during the daytime. The project is also positioned to borrows heat from the sun for indoor warming during cold seasons.



#### DESIGN FOR ECOLOGY

From the arid climate in Tucson, natural vegetation can be fashioned and maintained in the site with the help of biorientation combined with xeriscape



#### DESIGN FOR DISCOVERY

Learning is a process of discovery. Therefore, a mix of indoor and outdoor activities that happens at the same time can create an intriguing experience for fun seeking visitors.



#### DESIGN FOR WATER

Rainwater collected during monsoon seasons is going to be stored in the "green fountains" and bioswales located around the site for reuse.



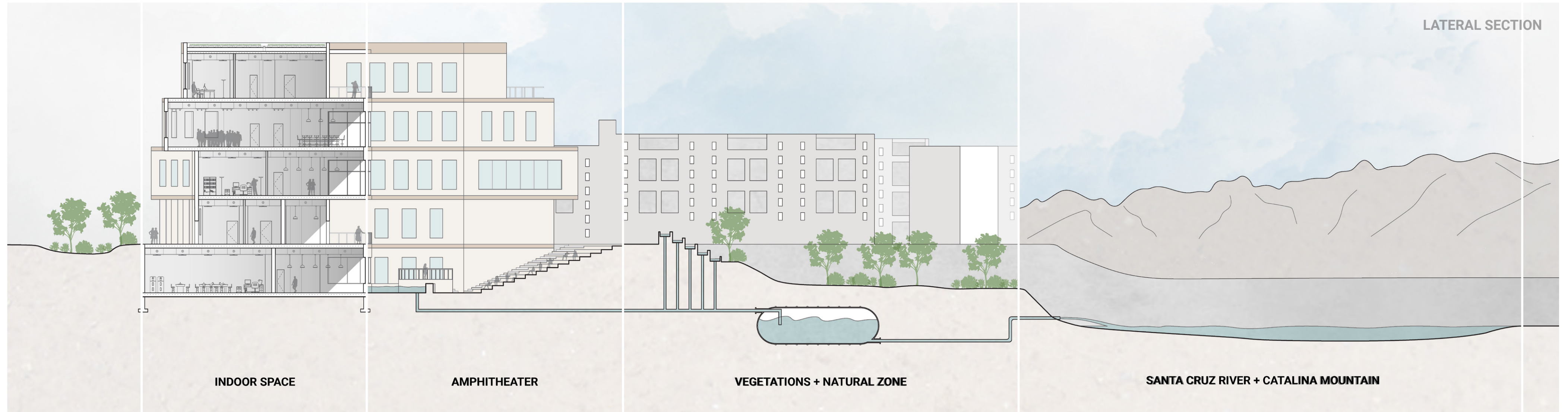
#### DESIGN FOR HEALTHY LIFESTYLE

Most of the activities taking place in the project involve a combination of physical exercises, where visitors are encouraged to actively navigate the site.



#### DESIGN FOR RESOURCES

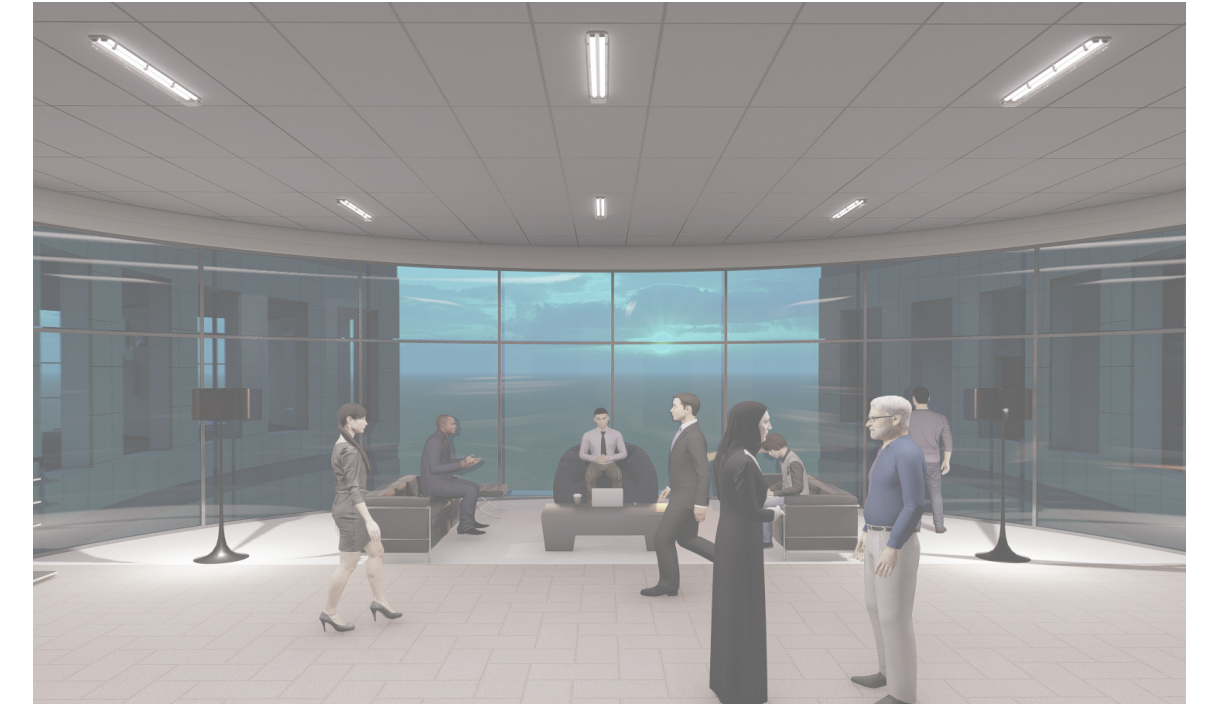
Introducing hydroponic and indoor farming products aids the project in maintaining a self-sustaining habitat without fully relying on external resource transportation.







22 ROTUNDA OF WONDER | TUCSON | ARIZONA



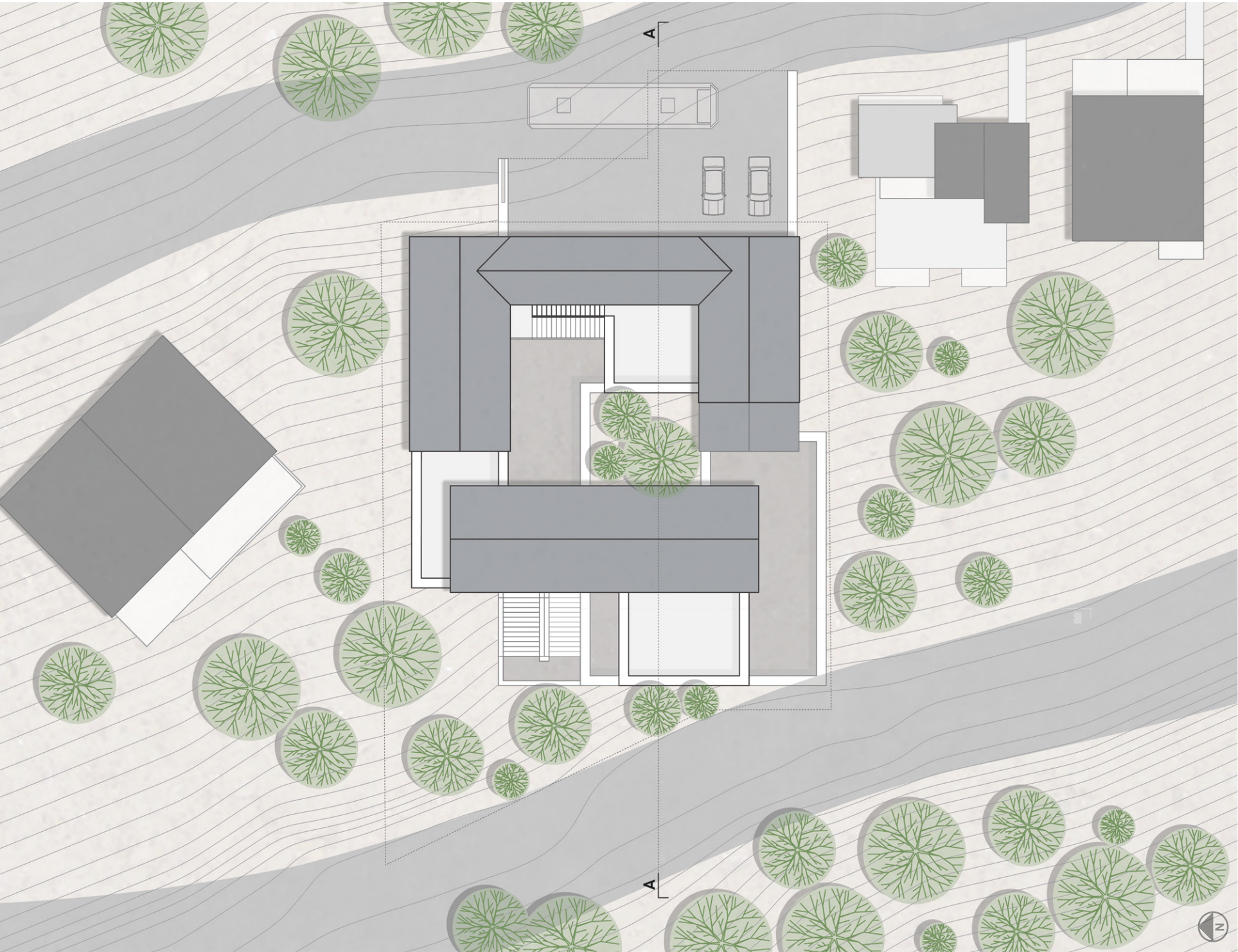
ROTUNDA OF WONDER | TUCSON | ARIZONA 23



# GREEN CABIN

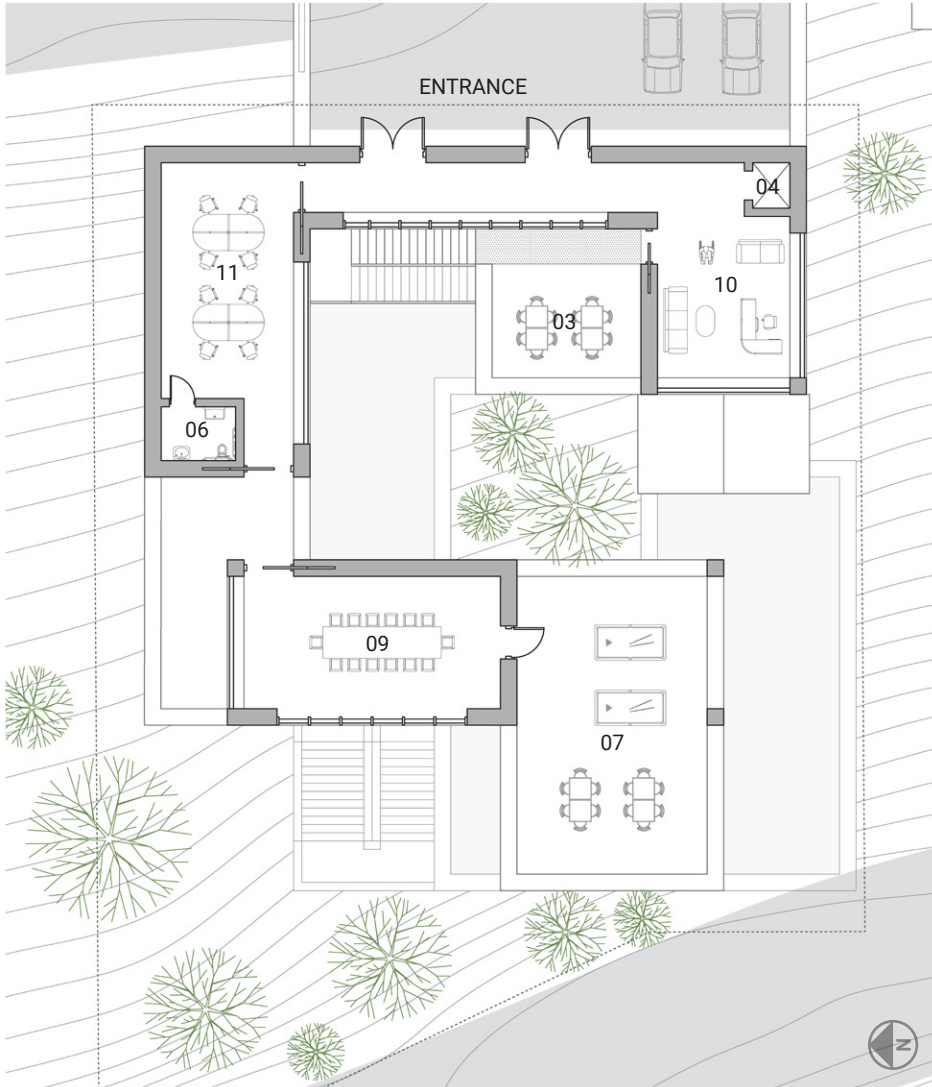
MOUNT LEMMON | ARIZONA | UNITED STATES

Located within the vicinity of Mount Lemmon, the Green Cabin become an ideal place for young people to escape from the scorching heat of Tucson. Intended for learning, research, and recreation. At the Green Cabin, visitors can freely enjoy outdoor activities while occupying the camp for a short while during school breaks. Conceptually, “Green Cabin” does not directly refer to the appearance of the building, but rather its purpose and integration with the beautifully green environment.



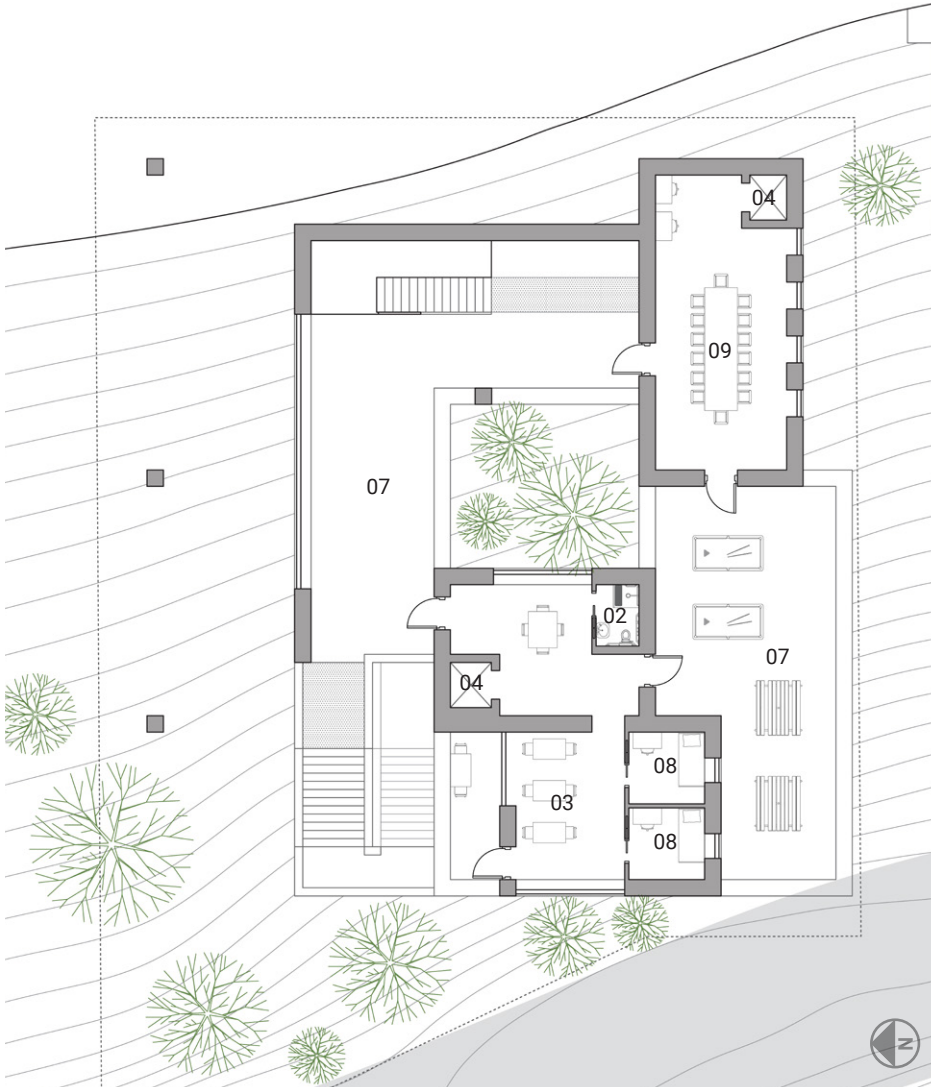


FOURTH LEVEL



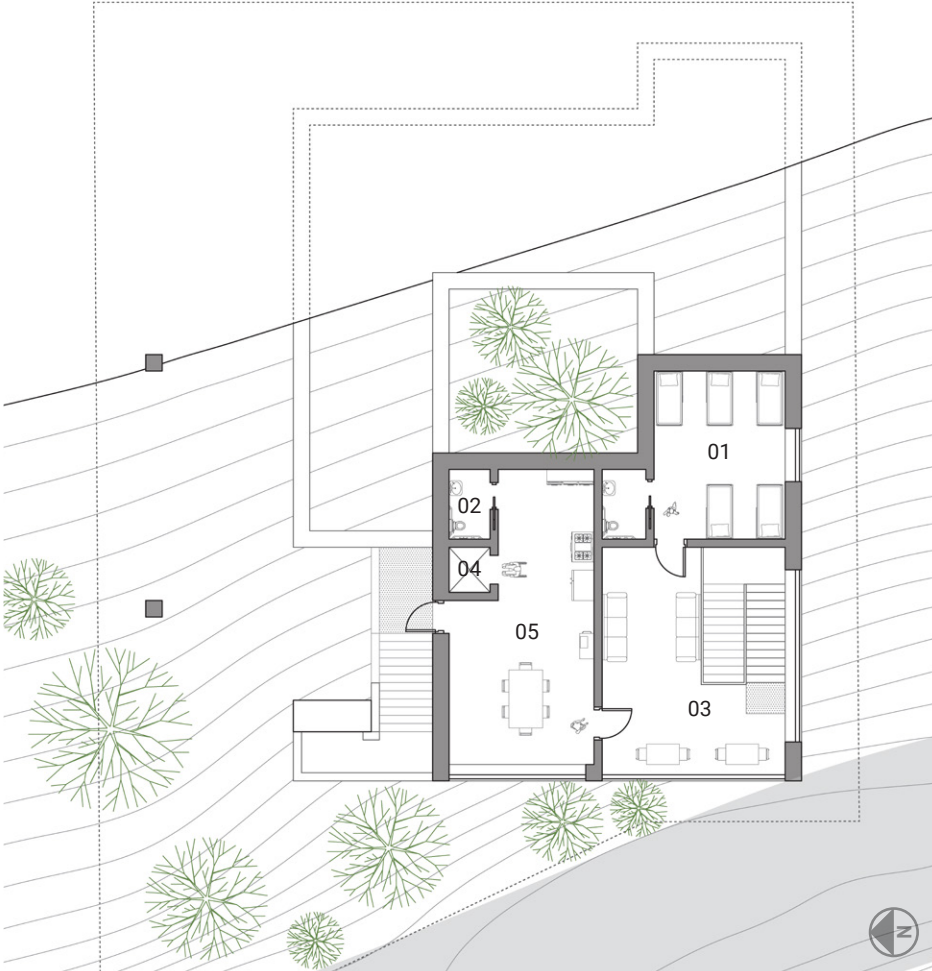
- 01. Student's cabin camp
- 02. Showers + restroom
- 03. Lounge
- 04. Elevator
- 05. Kitchen + dining
- 06. Gender-neutral restroom
- 07. Outdoor multi-use space
- 08. Teacher's cabin camp
- 09. Classroom
- 10. Reception

THIRD LEVEL

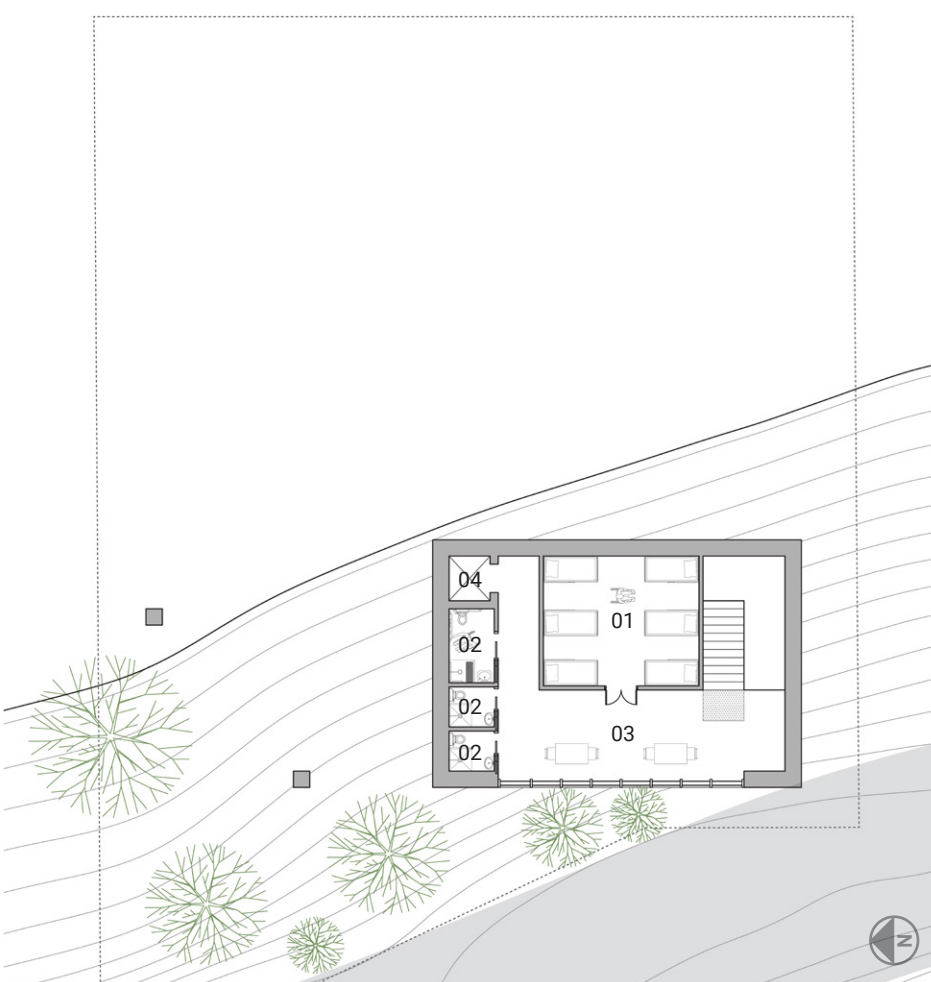


- 11. Laboratory

SECOND LEVEL



FIRST LEVEL



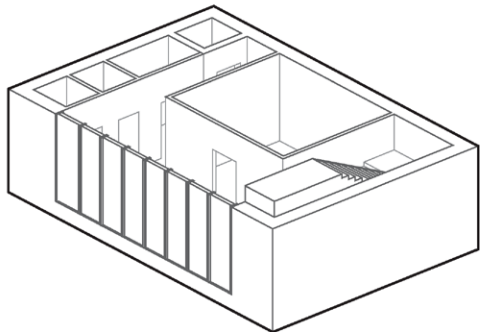
In contrast to the hot and dry temperature of Tucson, the Green Cabin highlights the summit atmosphere of Mt. Lemmon through spaces, views, and building materials. Following the natural formation of topography, the Green Cabin expresses a hierarchy of space where the visitor shall descent from the most engaged outdoor events on the upper floor to a more private retreat within the lower floor.



# EXPLODED AXONOMETRIC DRAWING

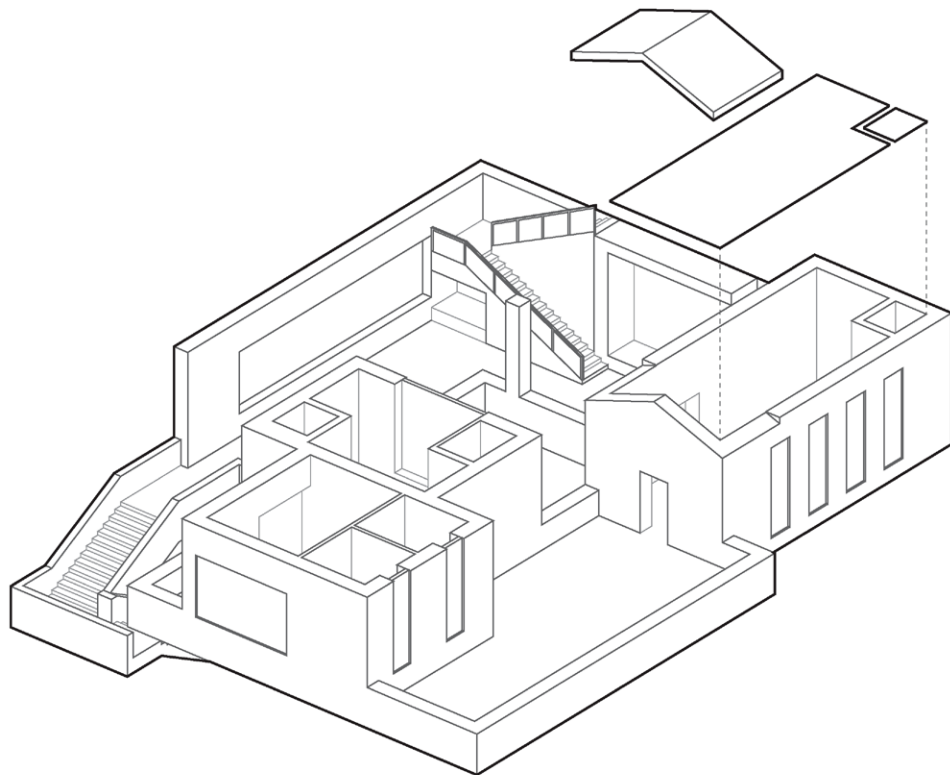
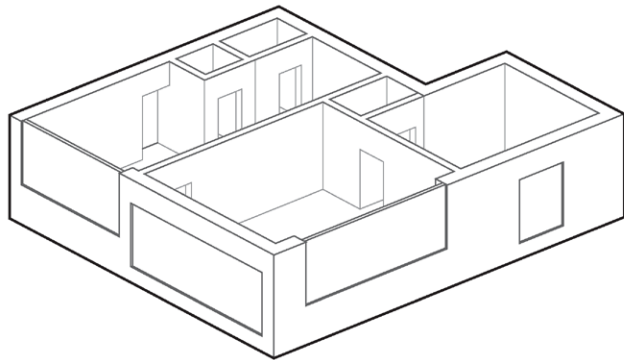
## FIRST LEVEL

Low-traffic space with a low influx of occupants. The program is intended for indoor activities such as lounging, showering, and sleeping.



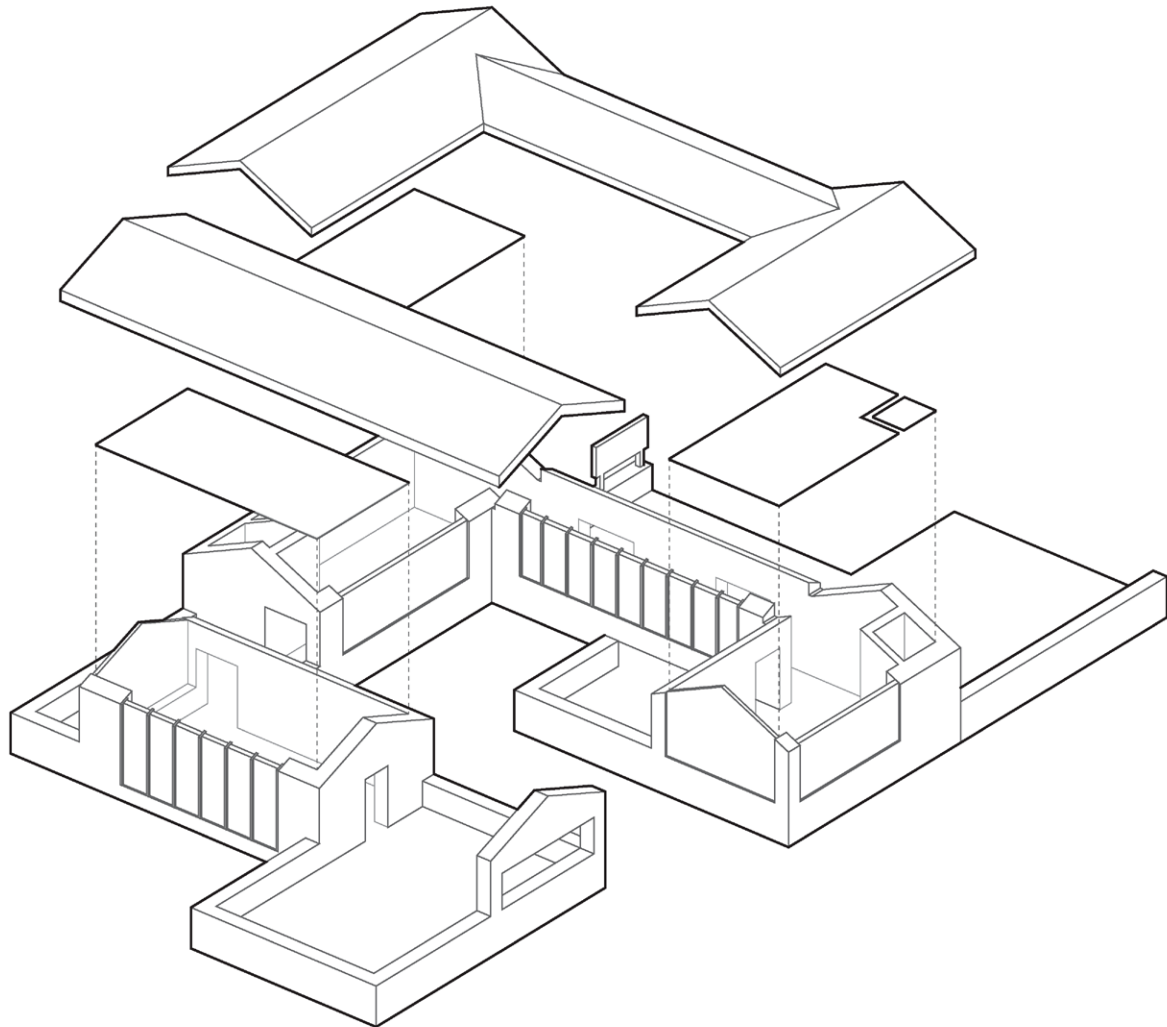
## SECOND LEVEL

Moderate traffic space with a medium influx of occupants. The program is intended for sleeping, lounging, and small-scale dining.



## THIRD LEVEL

Very high-traffic space with a moderate influx of occupants. The program is intended for outdoor gatherings, indoor meetings, and small-scale lounging.



## FOURTH LEVEL

High-traffic space with a high influx of occupants. Intended for activities such as outdoor lounging, gathering, attending class, performing work and teaching.

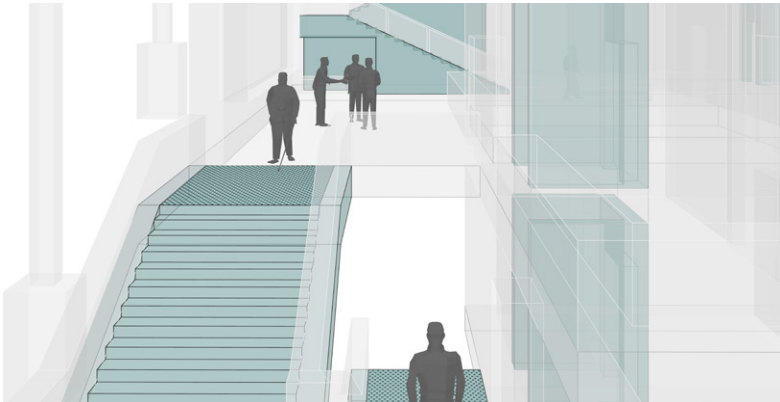


# UNIVERSAL DESIGN



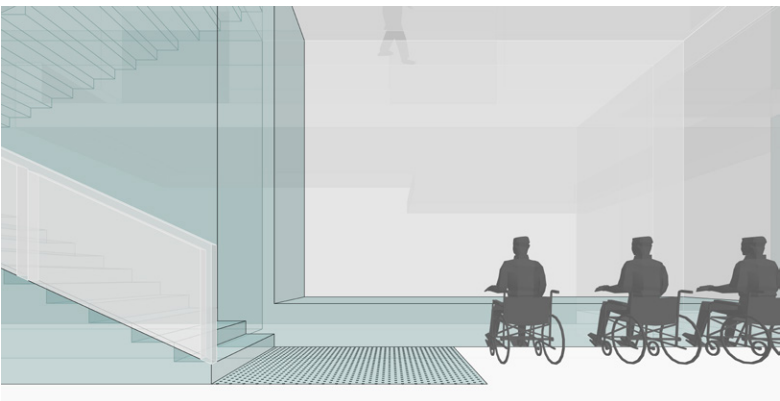
## LOW PHYSICAL EFFORT

Reduce the physical effort required from people with disability when operating, interacting with objects, and navigating through the site. These implements include elevators and automatic door buttons.



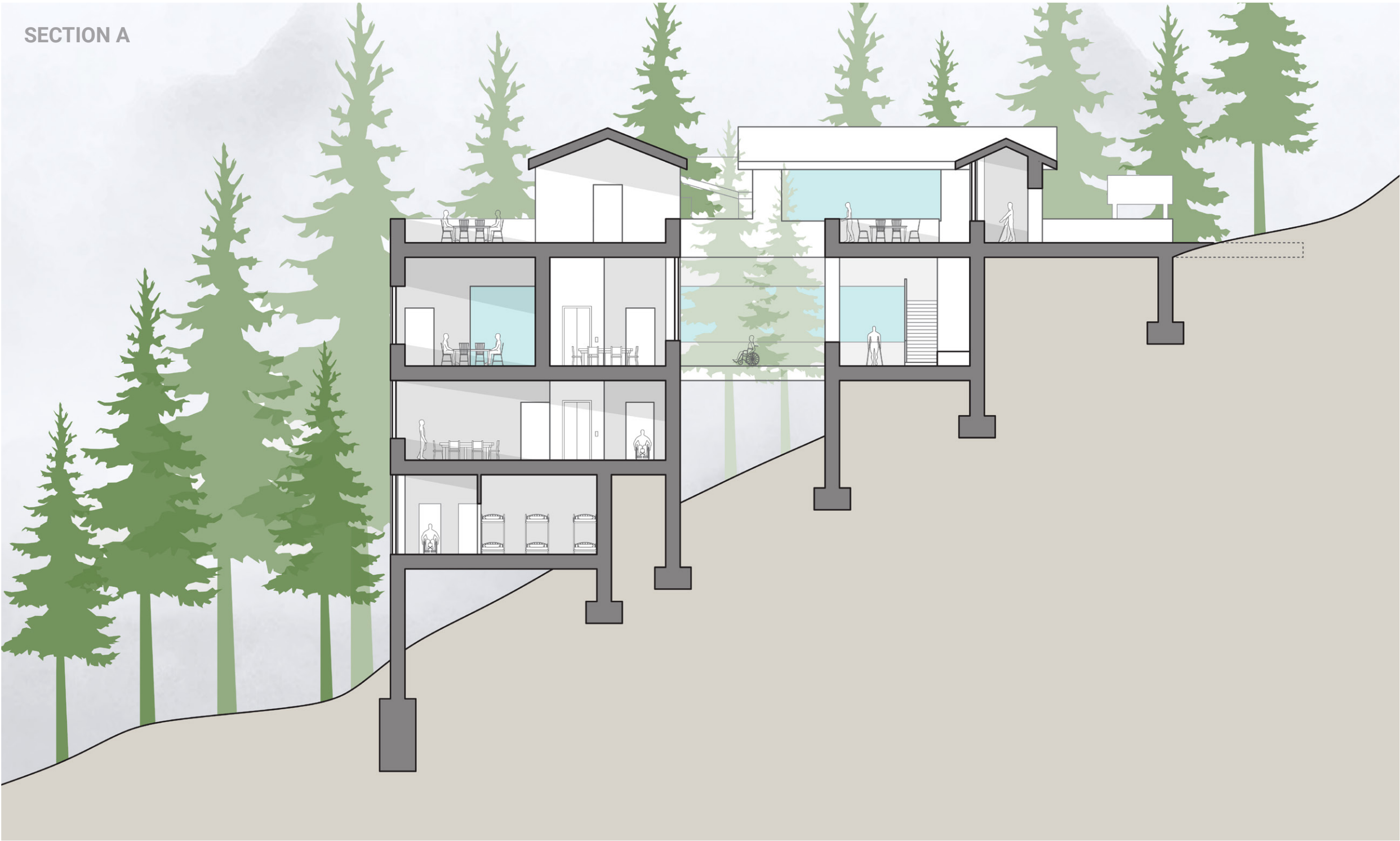
## PERCEPTIBLE INFORMATION

Use of braille and colorblind-friendly communication system to accommodate the visitor's need for navigating, occupying, and using the program spaces.

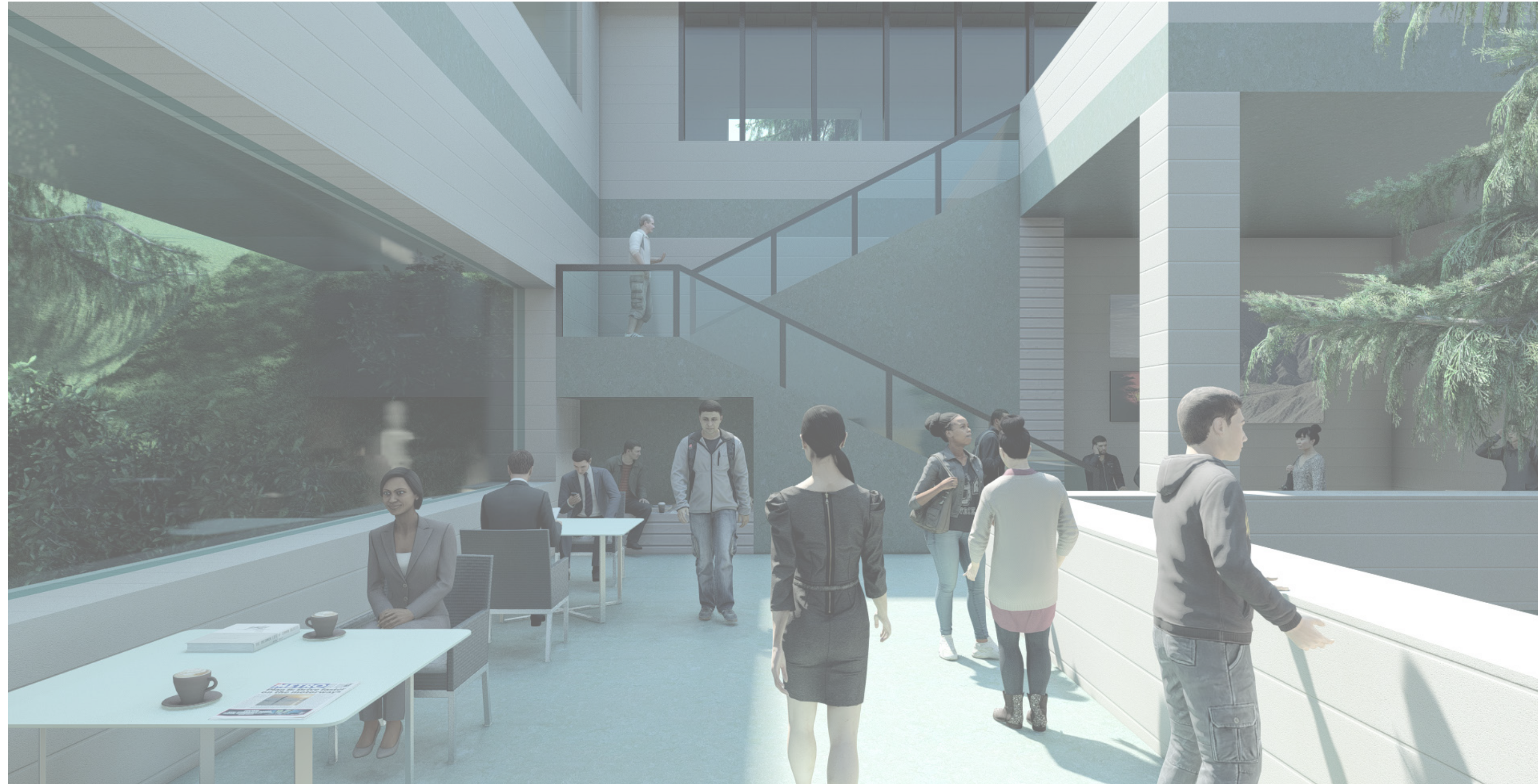


## FLEXIBILITY IN USE

Having appropriate sizes and flexible spaces | objects that allow easy approaches, interactions, and modifications. Provide general accessibility that can be modified to accommodate the occupant's wishes.





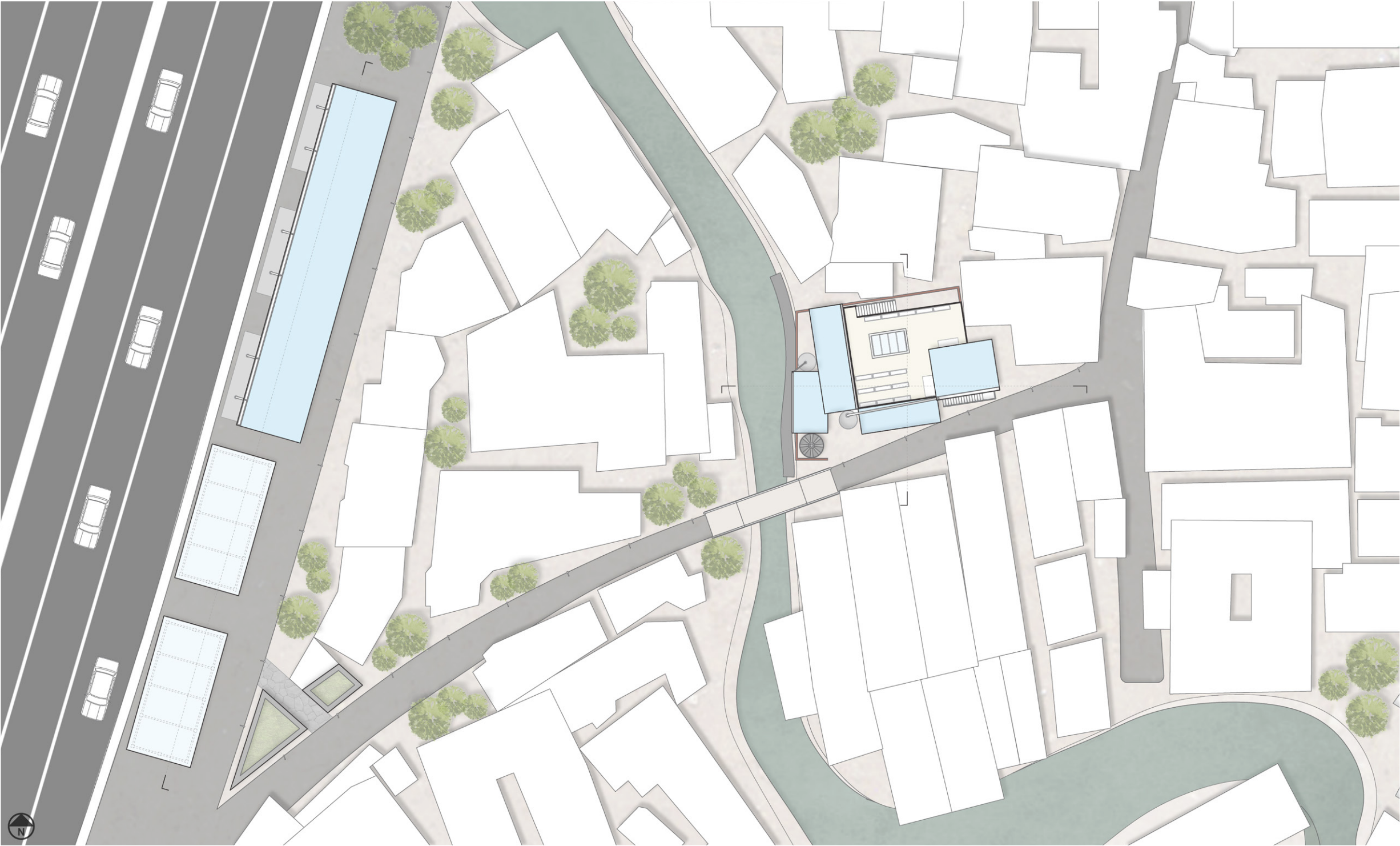
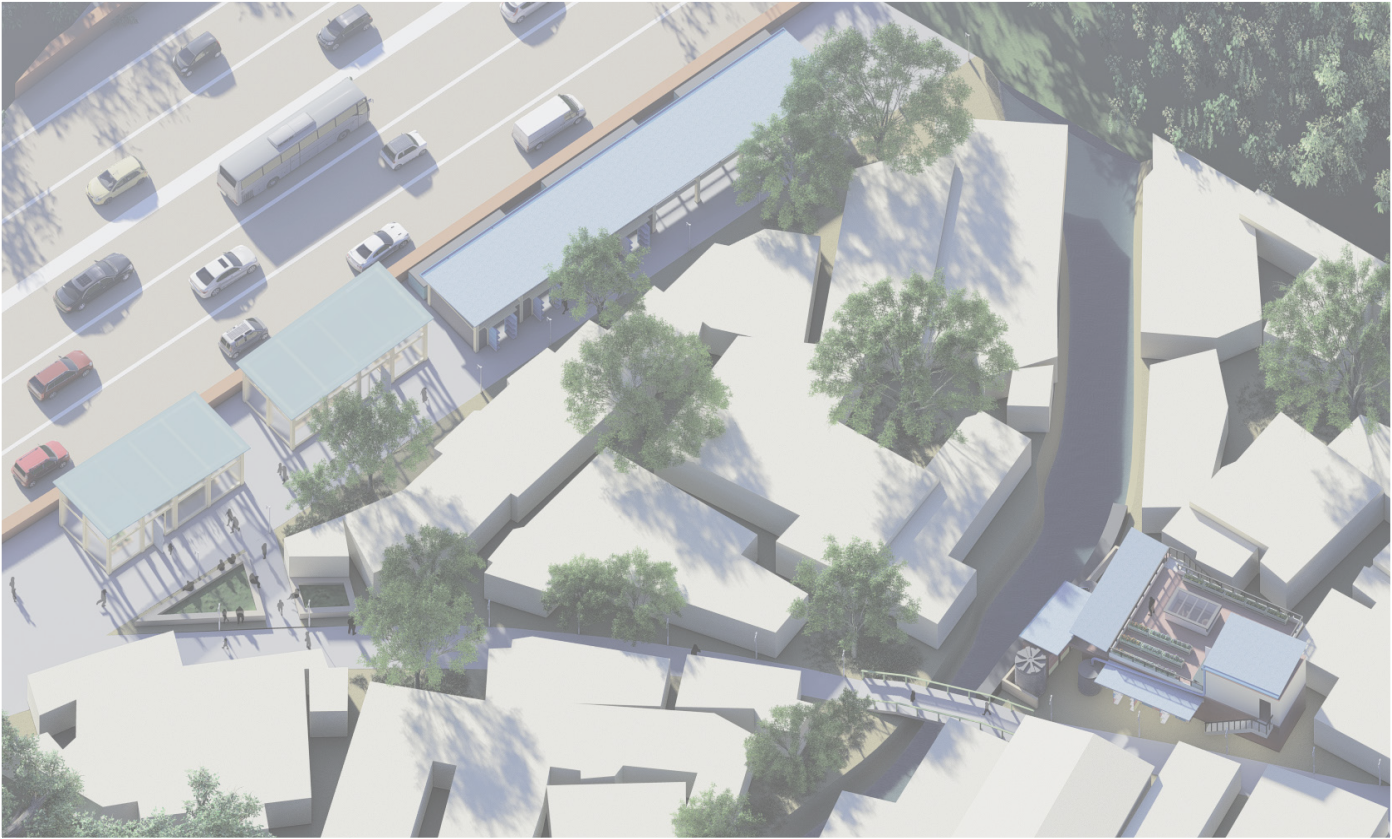




# KIBERA COMMUNITY CENTRE

KIBERA | NAIROBI | KENYA

Within the capital of Kenya, Nairobi lies the largest slum Kibera, where poverty, pollution, lack of necessary amenities, and infrastructure become the challenges for development. In response and collaboration with KDI, Kibera Community Centre aim to address and tackle these existing issues. By providing and improving basic amenities such as sanitary stations, food production, training, and trading facility to help improve the lives of the local slum dwellers from a small-scale perspective.





The entire project consists of two separate programs, which include a community building located south of the Lindi village and the extension of the street view facilities.

It is predicted that the local slum dweller will gather at the community building mainly for restroom service and training. This program further enhances the purpose of the site and allows more activities to take place in both outdoor and indoor spaces.

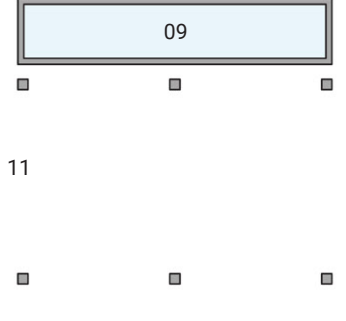
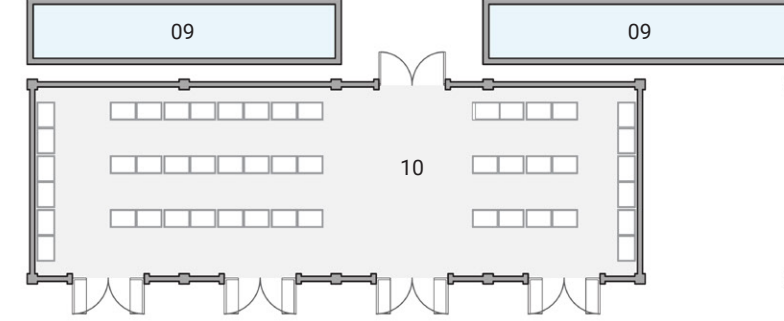
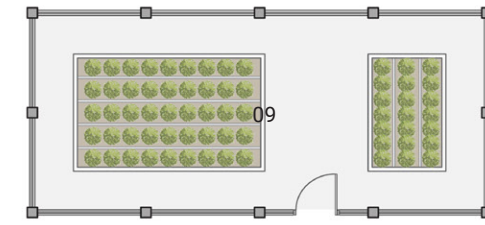
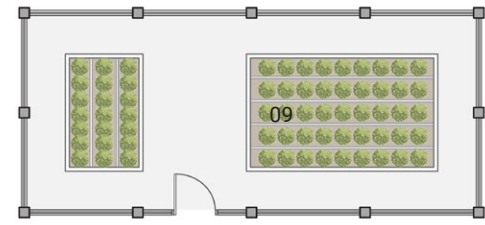
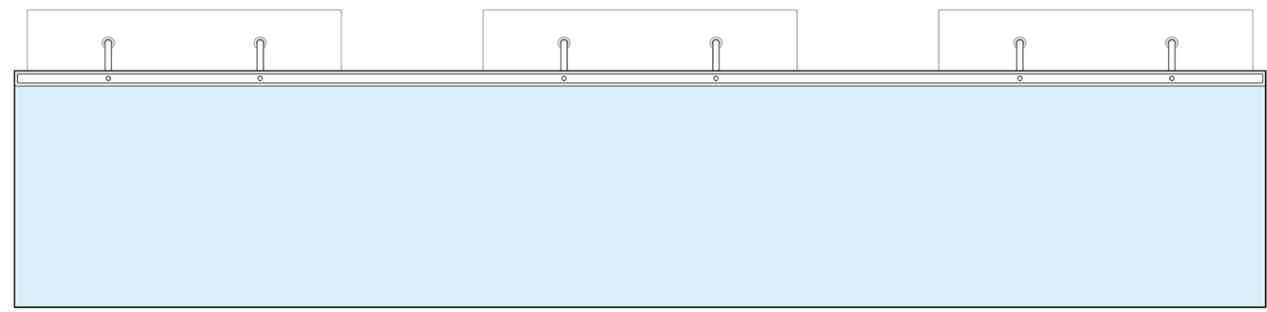
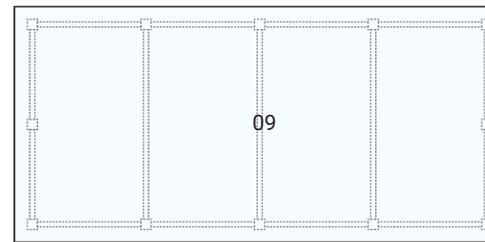
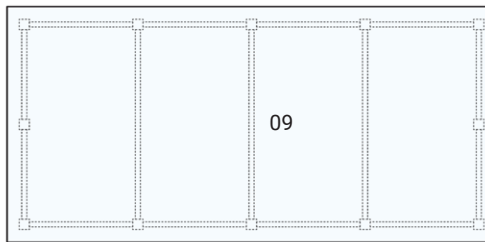
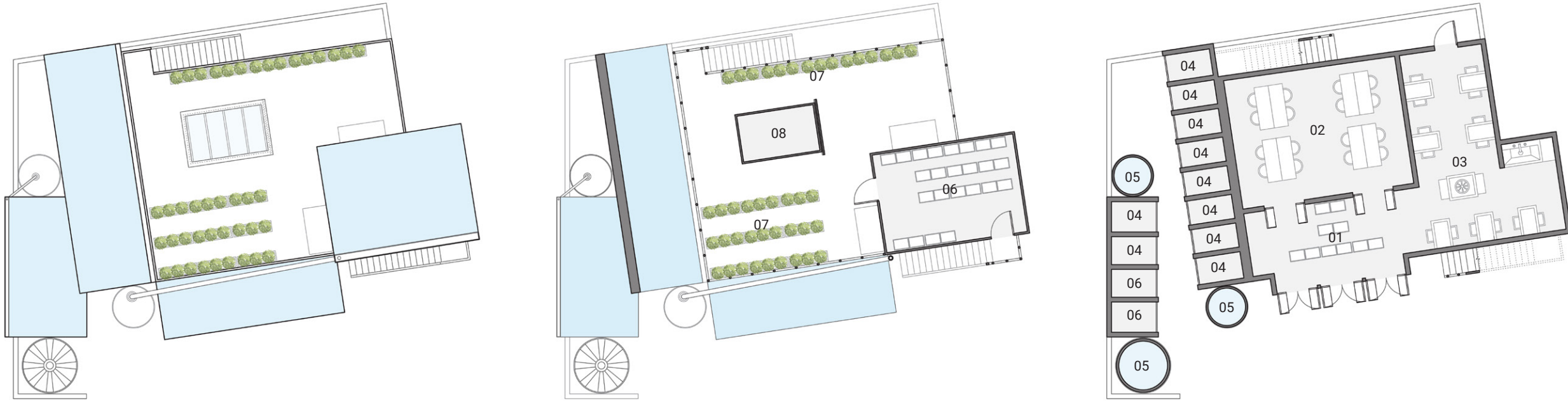
To further expand the benefit and influence of the site, the community marketplace and greenhouses located west of the site allow a more opened and interactive space to aid the production and trade from the community center.

COMMUNITY BUILDING

- 01. Market
- 02. Multi-use space
- 03. Dining + kitchen area
- 04. Restroom
- 05. Small water tanks
- 06. Storage
- 07. Garden planters
- 08. Lightwell

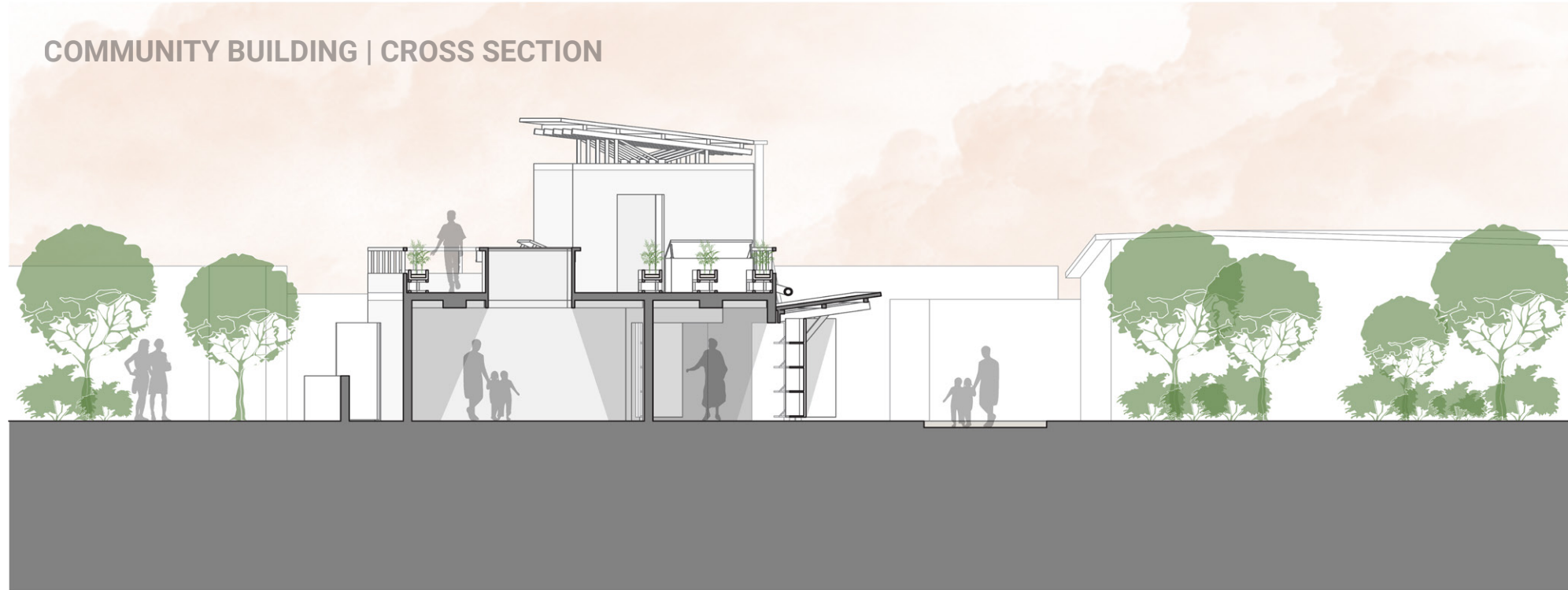
STREETVIEW BUILDINGS

- 09. Greenhouses
- 10. Semi-indoor market
- 11. Covered outdoor multi-use space
- 12. Water collector tanks

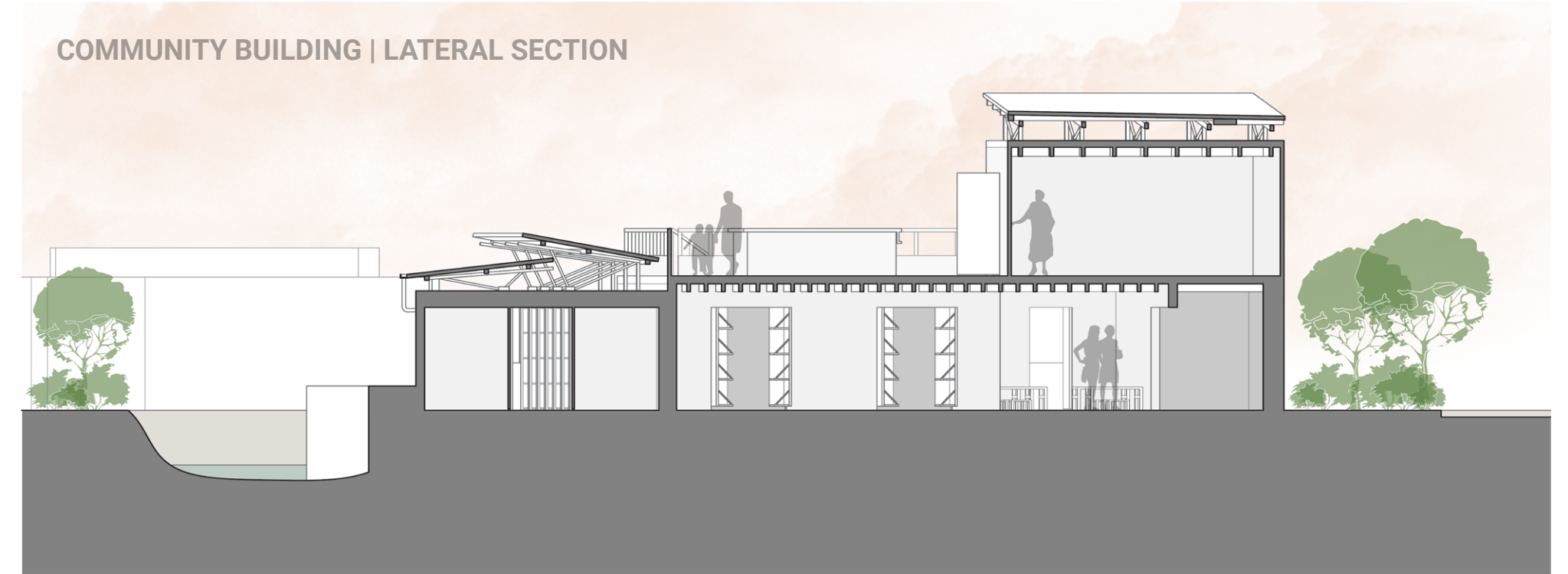




COMMUNITY BUILDING | CROSS SECTION



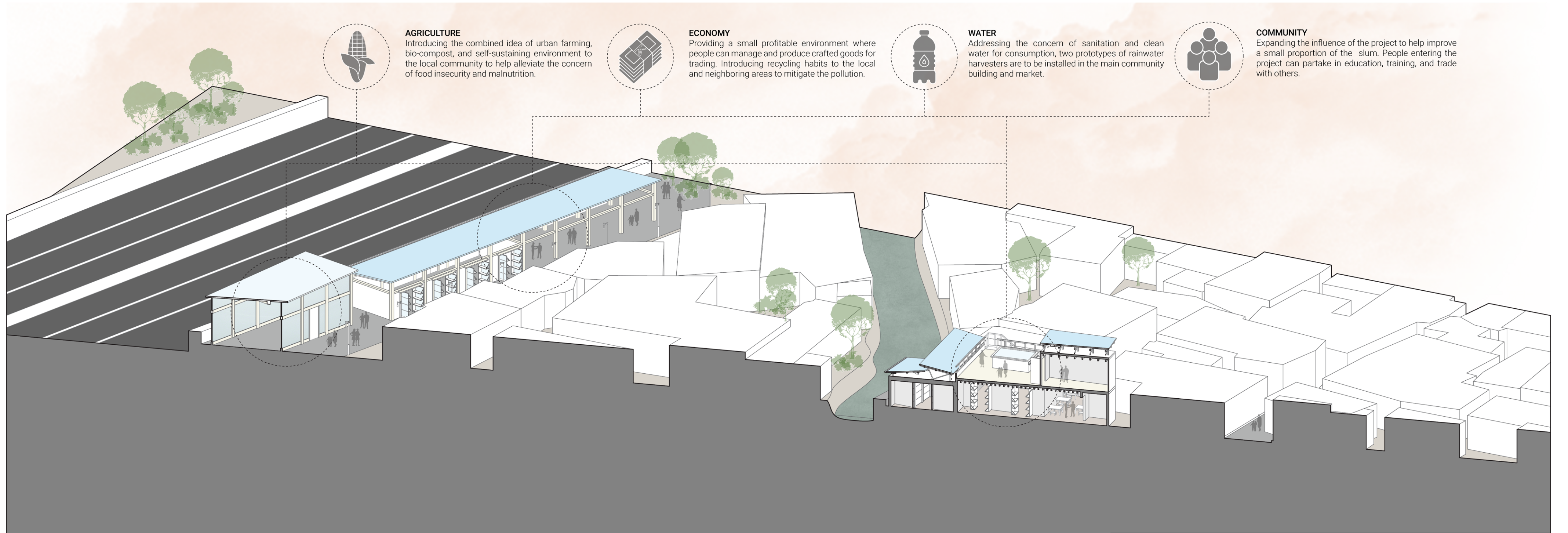
COMMUNITY BUILDING | LATERAL SECTION



STREETVIEW BUILDING | LATERAL SECTION







**AGRICULTURE**

Introducing the combined idea of urban farming, bio-compost, and self-sustaining environment to the local community to help alleviate the concern of food insecurity and malnutrition.

**ECONOMY**

Providing a small profitable environment where people can manage and produce crafted goods for trading. Introducing recycling habits to the local and neighboring areas to mitigate the pollution.

**WATER**

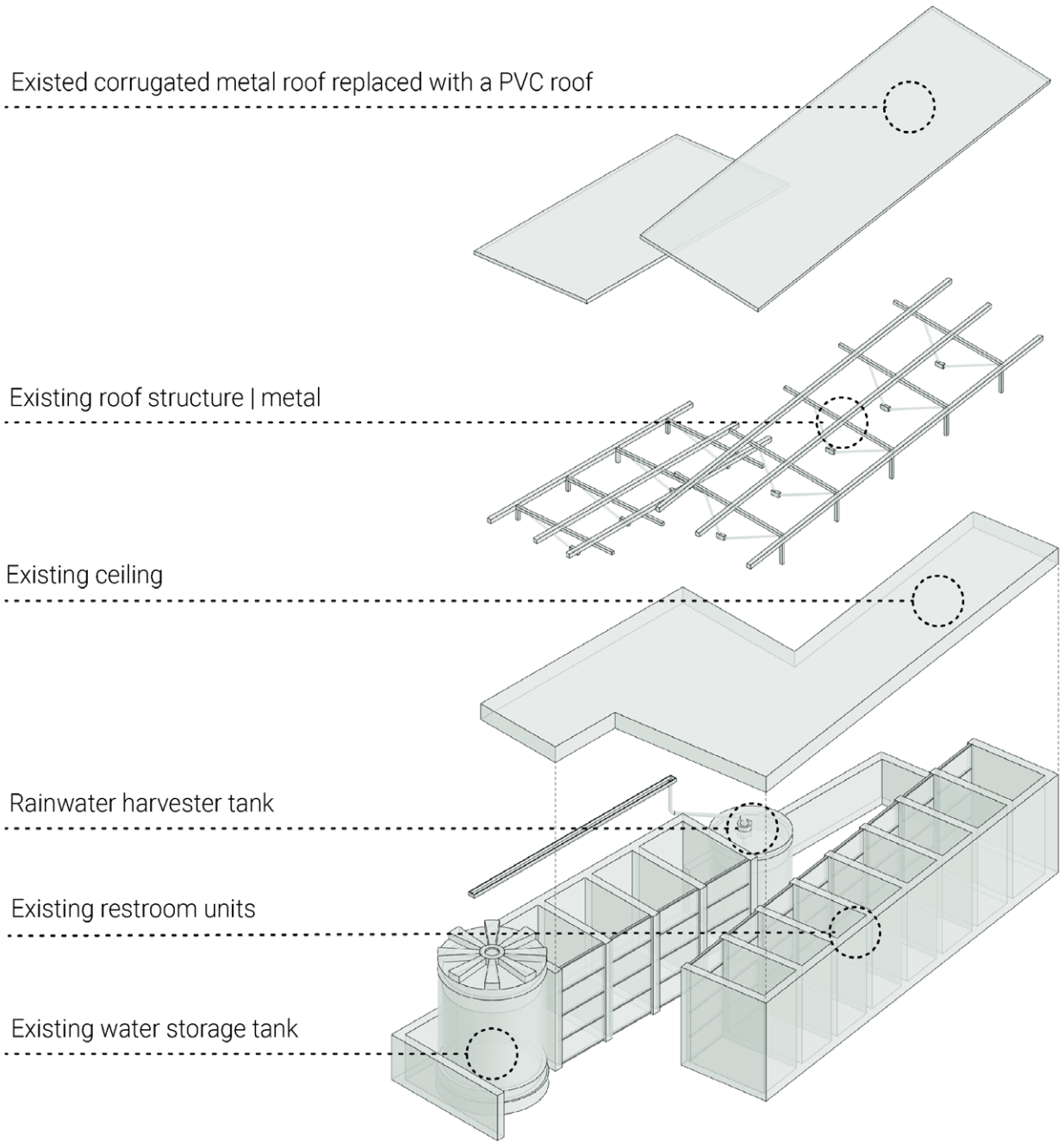
Addressing the concern of sanitation and clean water for consumption, two prototypes of rainwater harvesters are to be installed in the main community building and market.

**COMMUNITY**

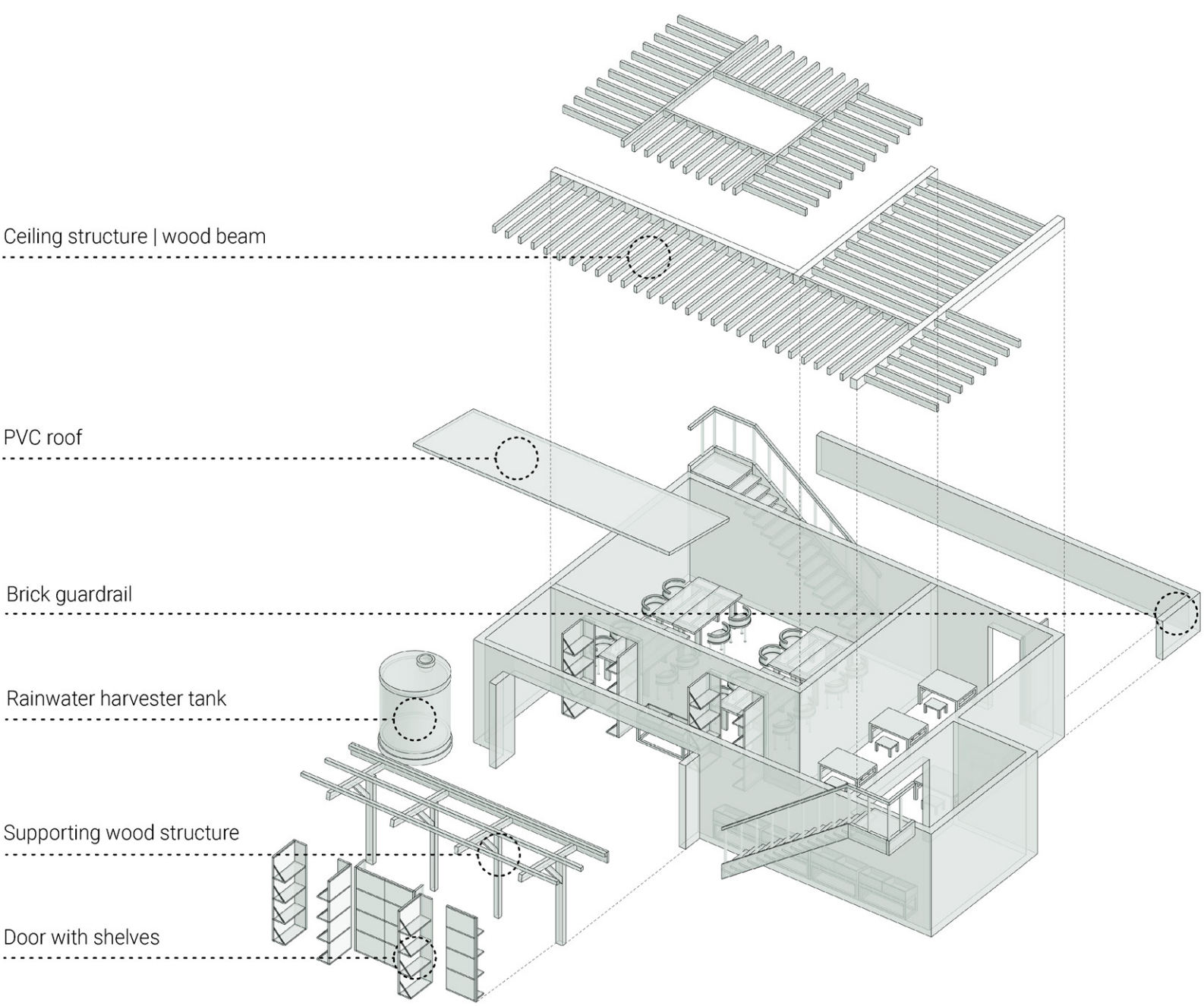
Expanding the influence of the project to help improve a small proportion of the slum. People entering the project can partake in education, training, and trade with others.



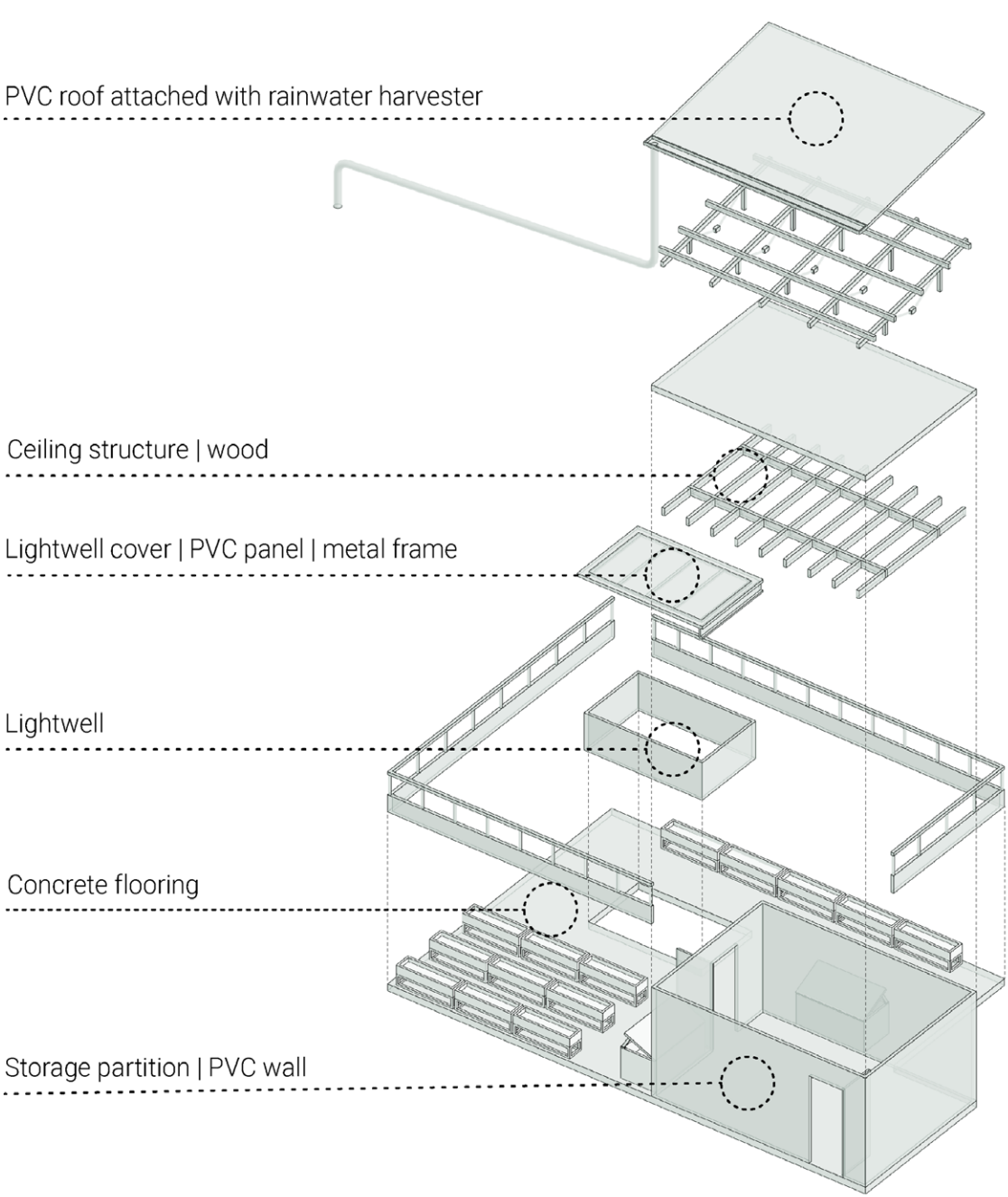
COMMUNITY BUILDING | RESTROOM | SANITATION STATION



COMMUNITY BUILDING | FIRST FLOOR

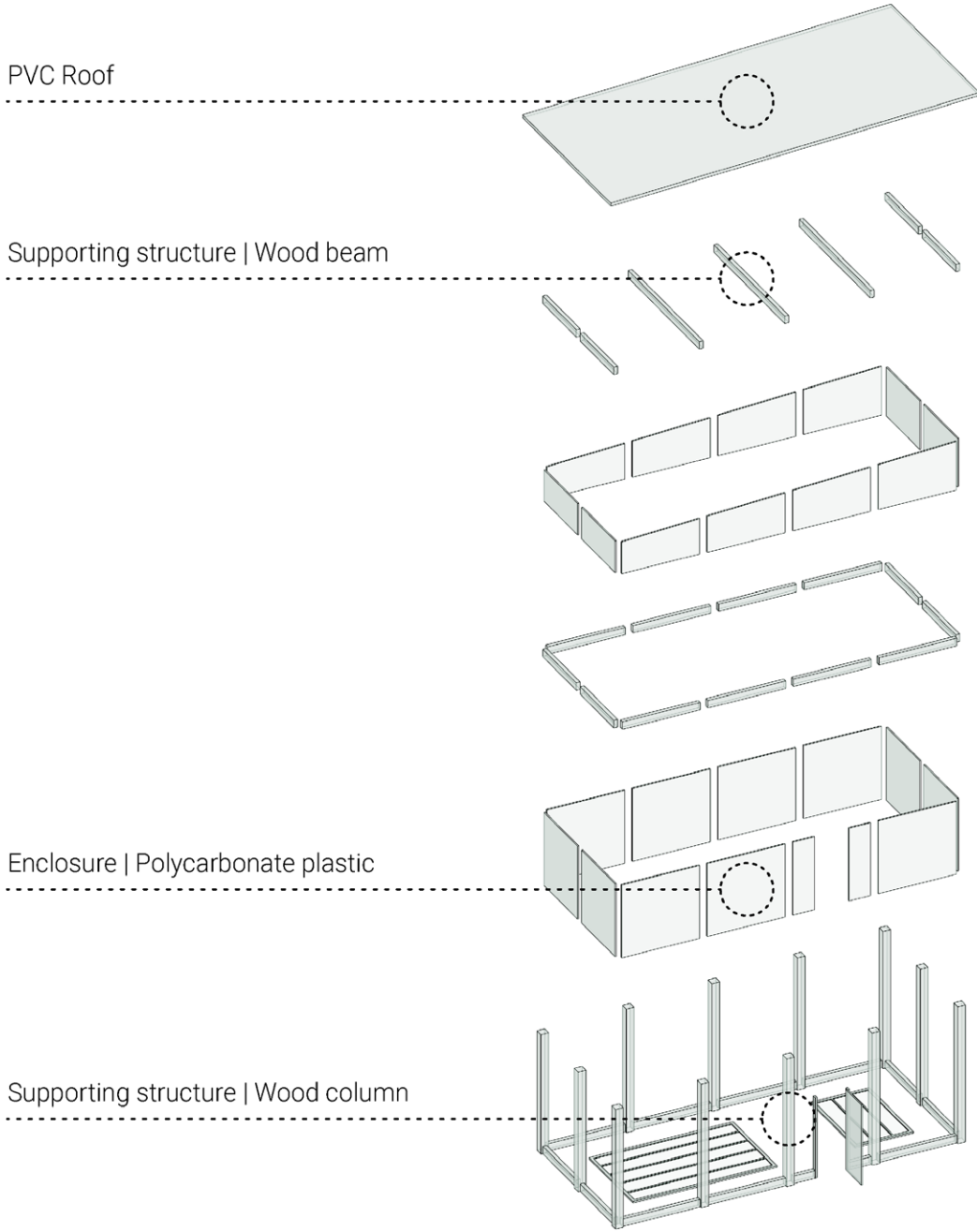


COMMUNITY BUILDING | SECOND FLOOR

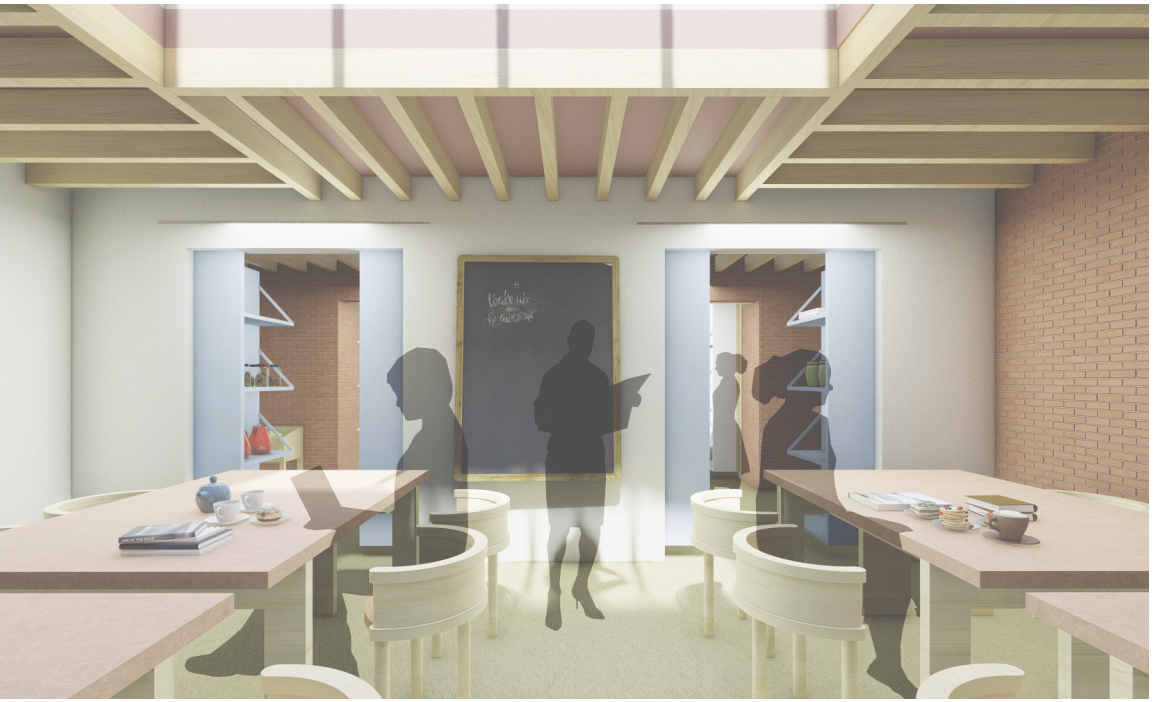
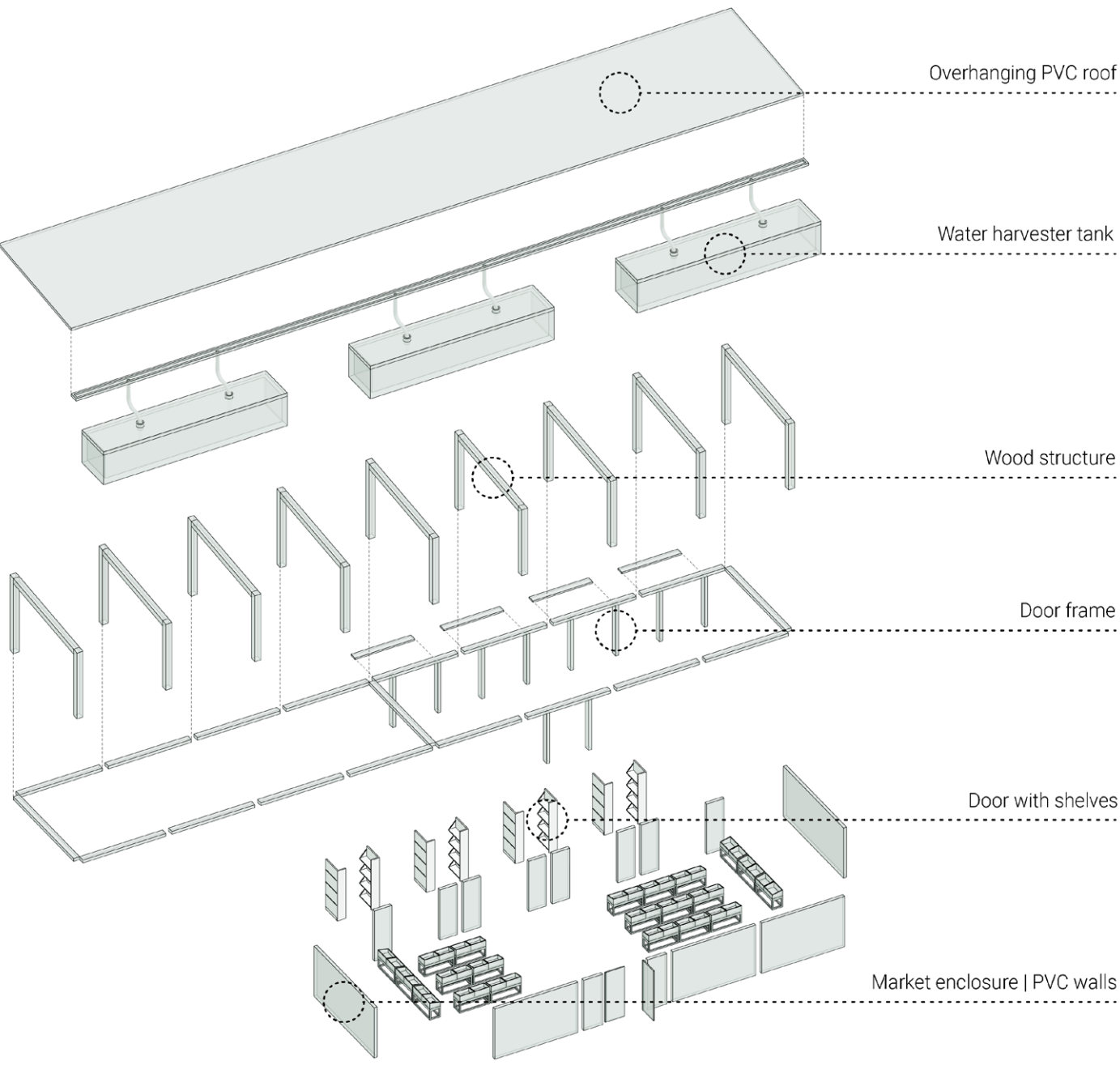




STREETVIEW BUILDING | GREENHOUSE



STREETVIEW BUILDING | COMMUNITY MARKETPLACE







46 KIBERA COMMUNITY CENTRE | KIBERA | NAIROBI | KENYA



KIBERA COMMUNITY CENTRE | KIBERA | NAIROBI | KENYA 47



