

MITALI DARDA

selected works 2019-2025

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bamboo pavilion | academic

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arch, vault, dome | workshop

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construction and working drawings | professional work

city dive

community swimming hub

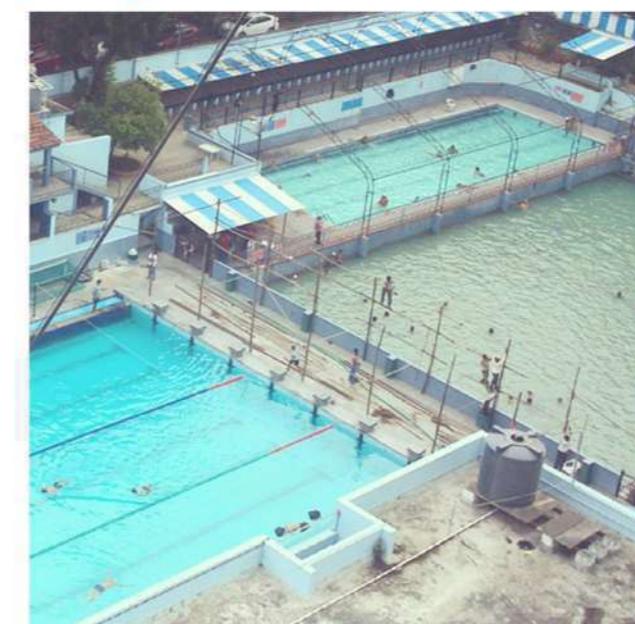
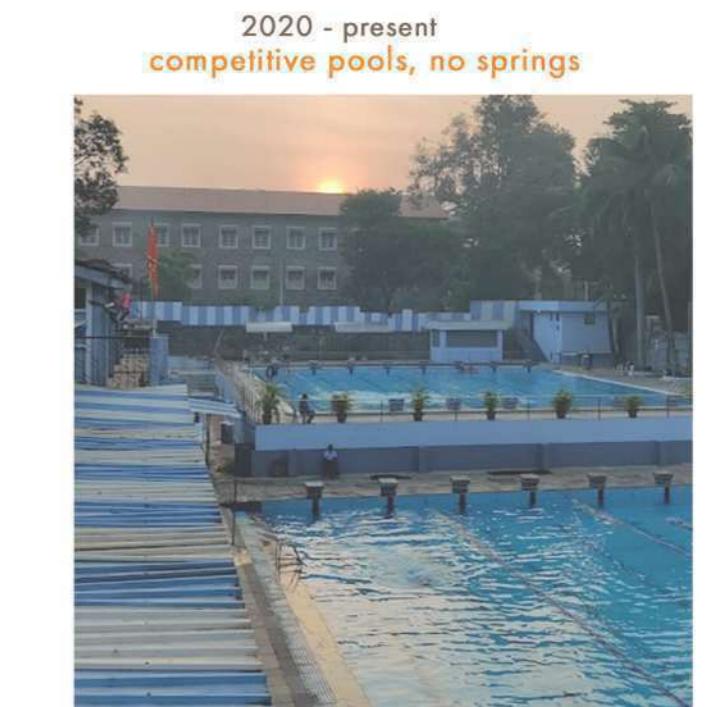
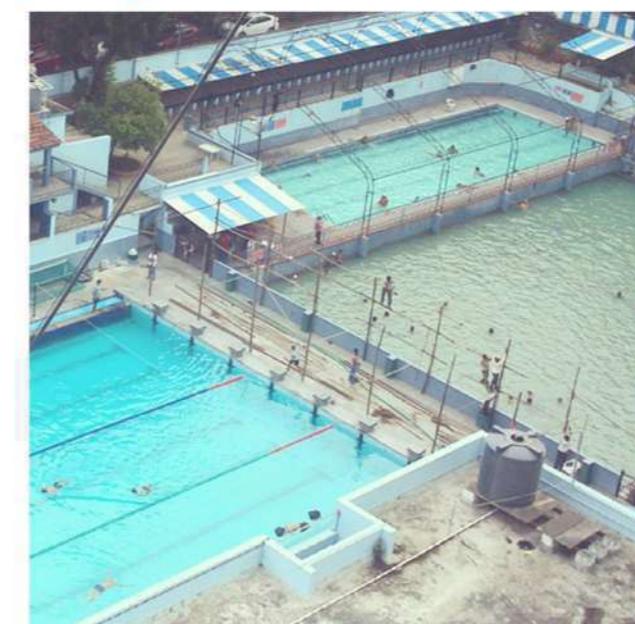
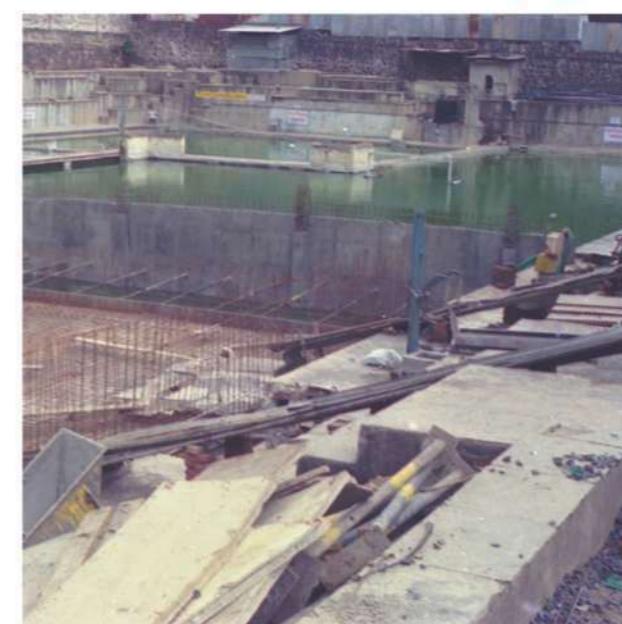
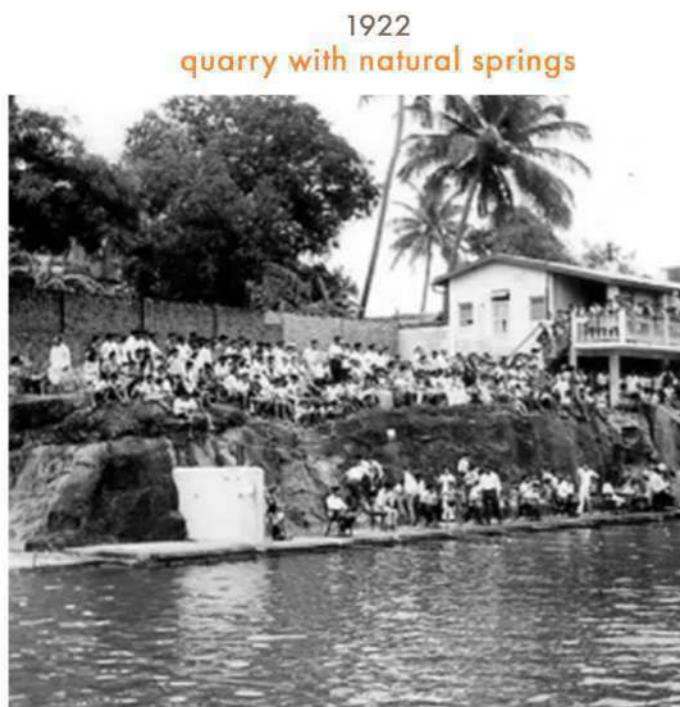
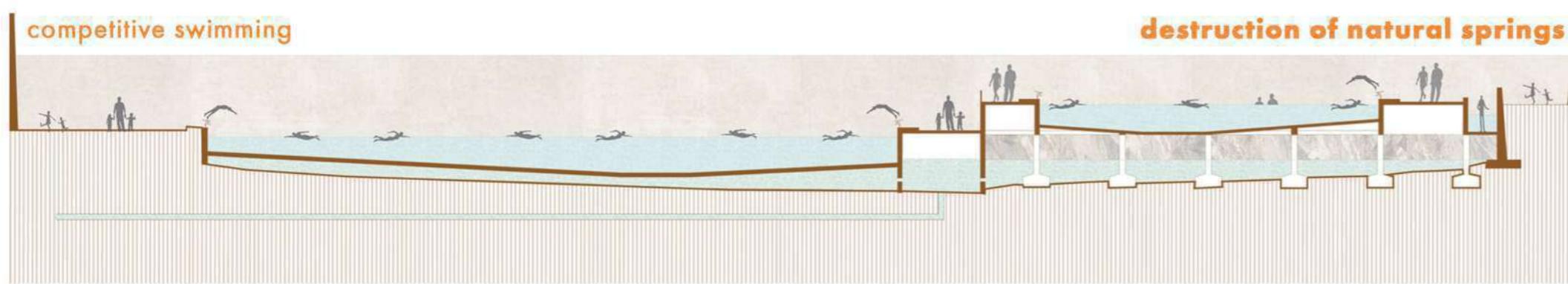
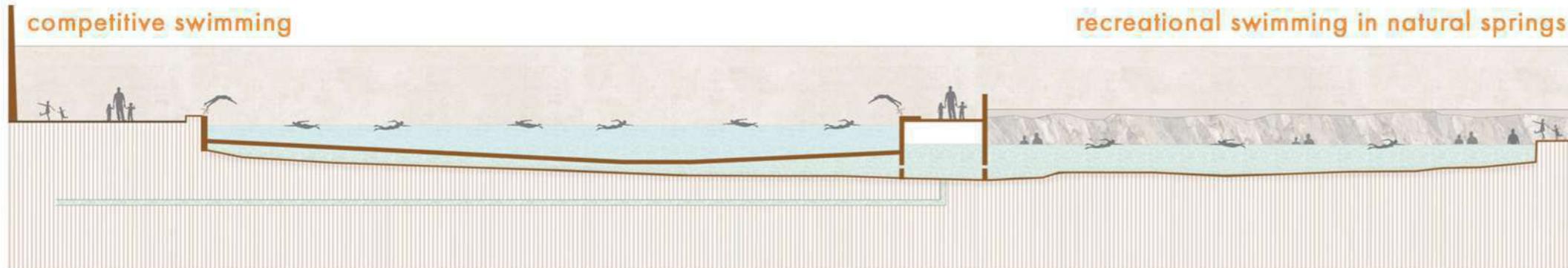
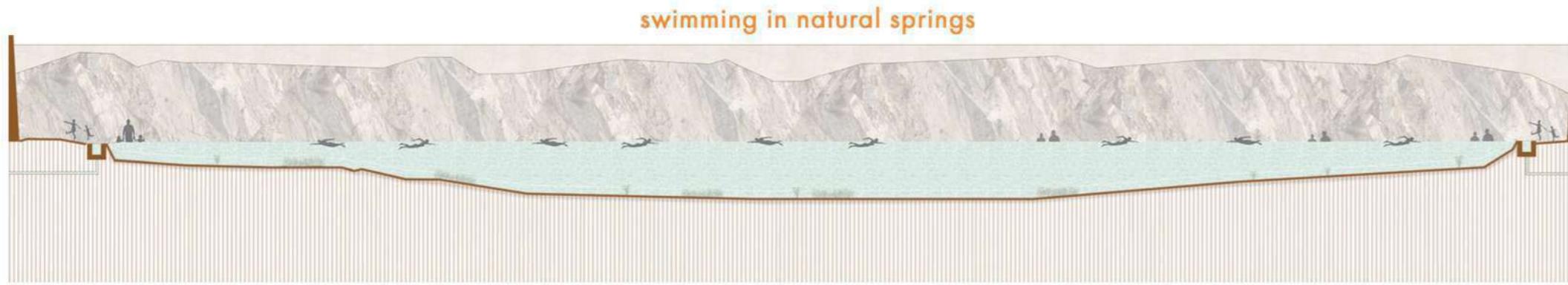
area : 7184 sq.m | location : Pune, India | type : thesis

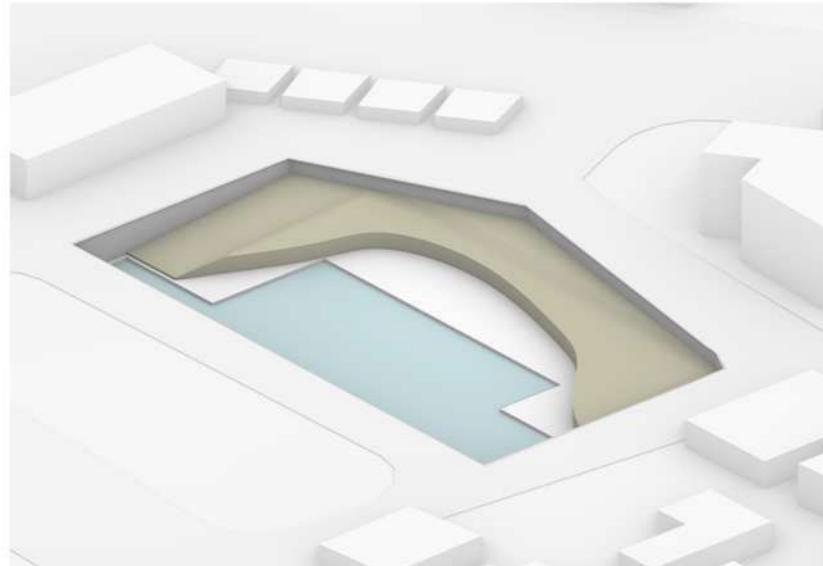
sem 10: indiv. design

an urban swimming hub that maintains a legacy of sustaining itself entirely on a source of natural springs without sourcing any water from the Pune corporation or government. The pool reuses and recycles the water using oxidation and bio pools, two booming sustainable approaches for the treatment of water in a growing city like Pune in India.

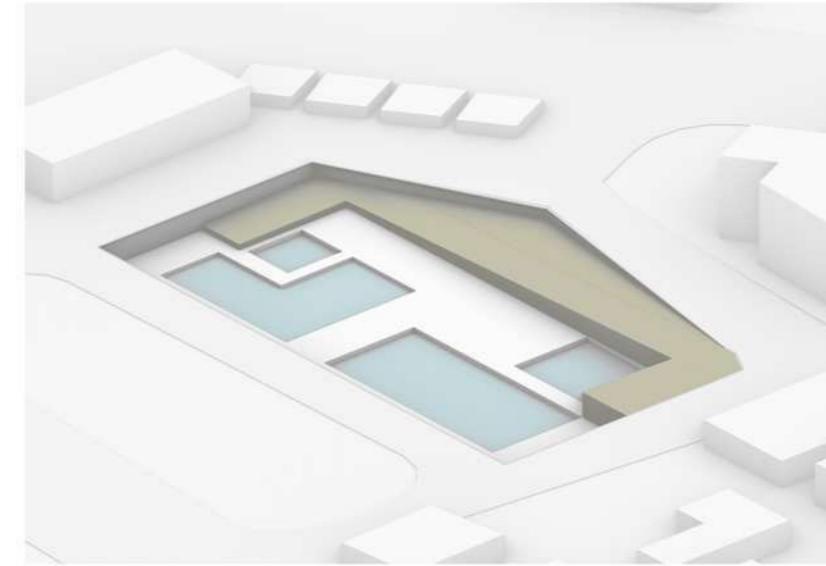
It thrives to regain its lost identity that once brought a strong cohesion between recreation and competition with maximum participation of all age groups. It tries to bridge the gap between a strict training environment with more frank and open leisure corridors. Bio pool focuses on bringing back the dying source of water and naturally treating it thereby creating an ecosystem within itself.



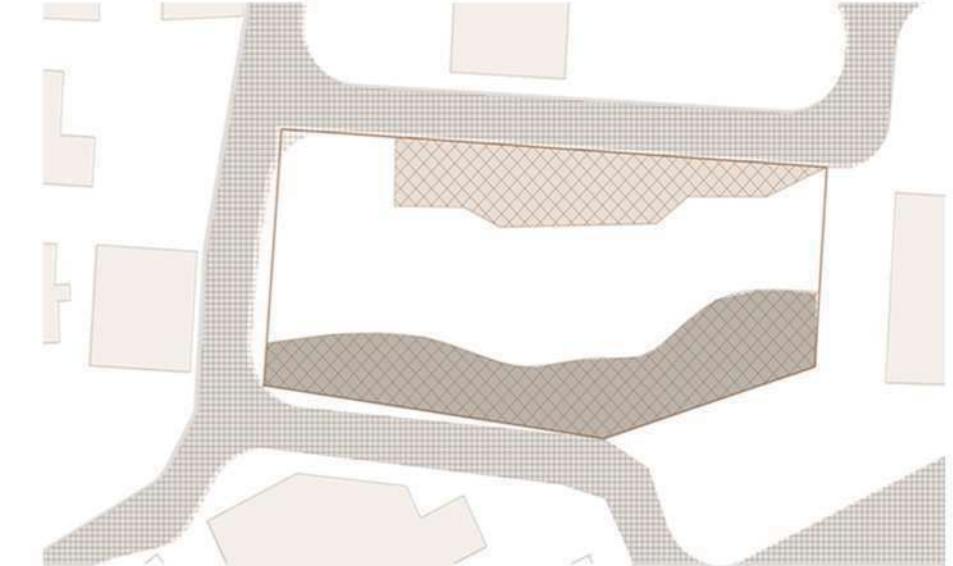




existing natural spring and contour



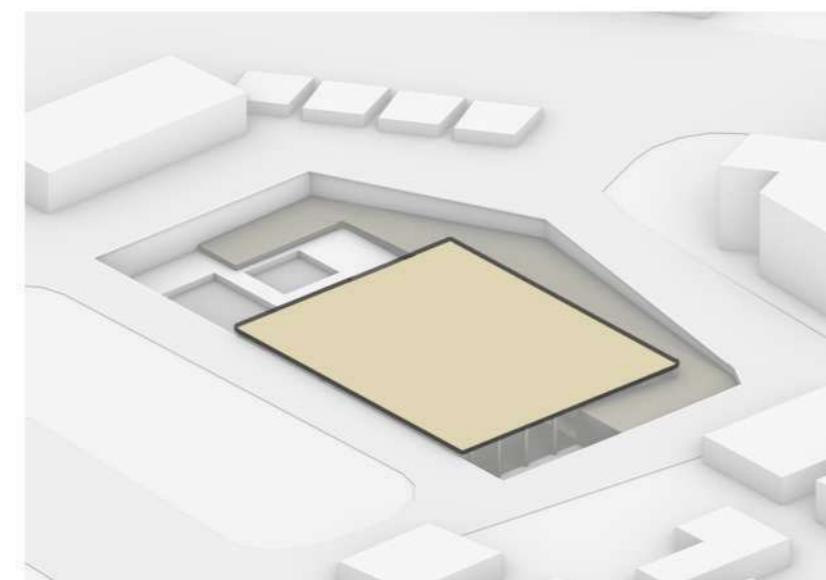
rearranging pools



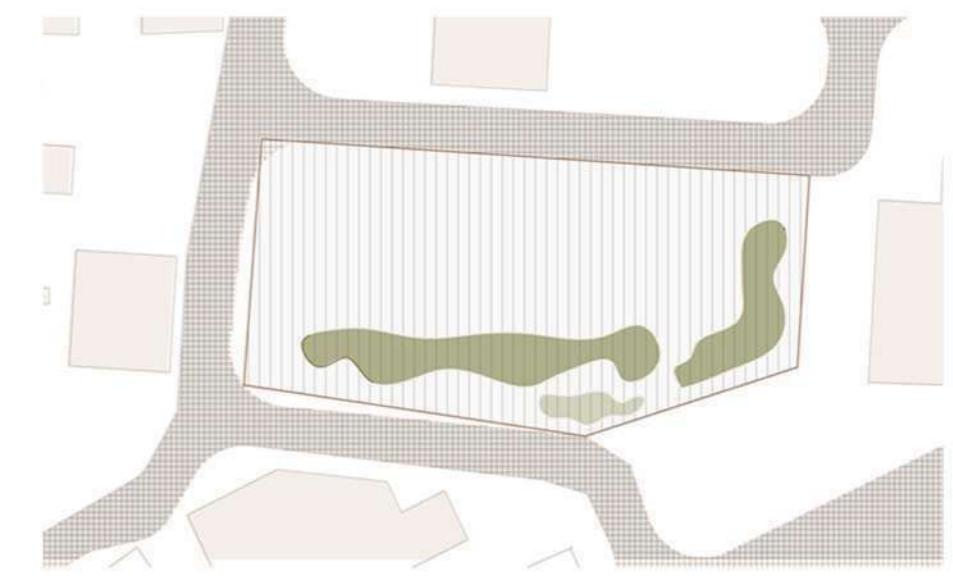
soil



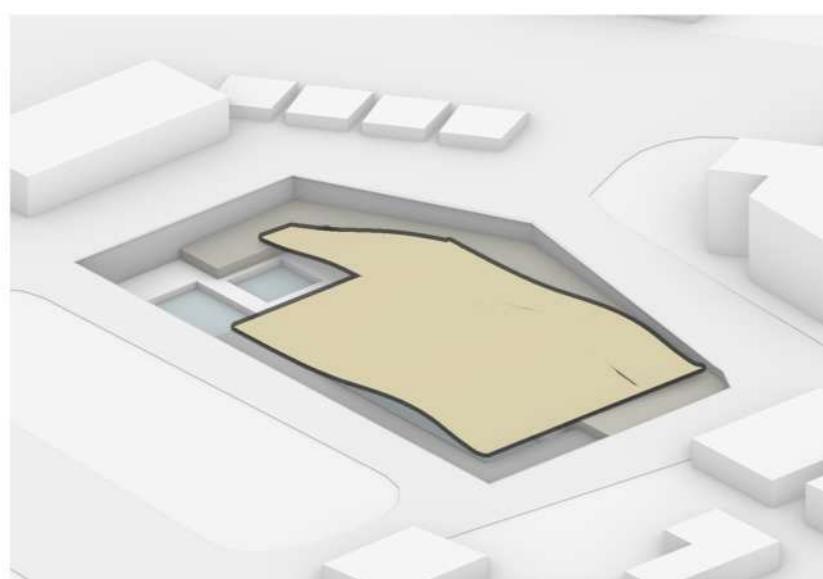
bridge and additional viewing pavilion



shade



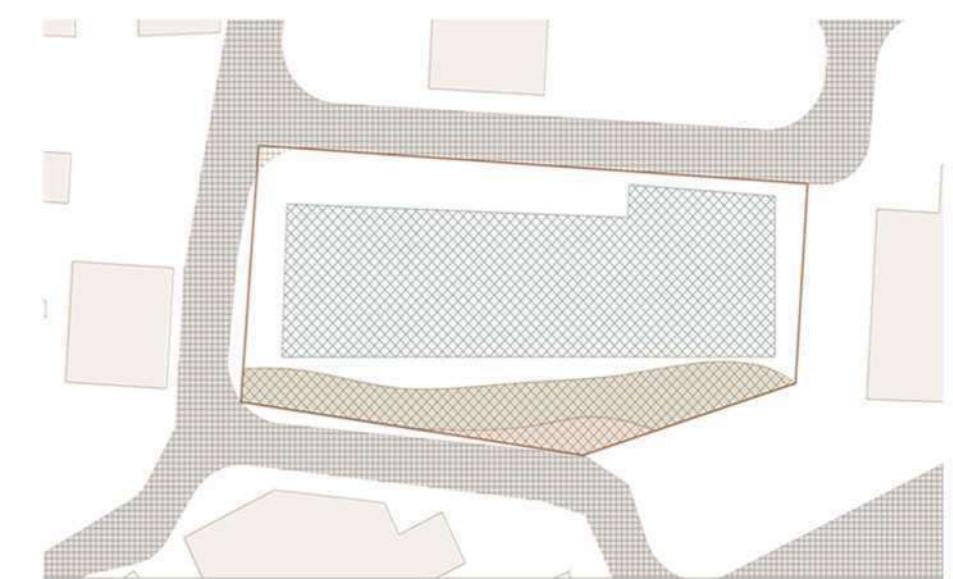
softscape



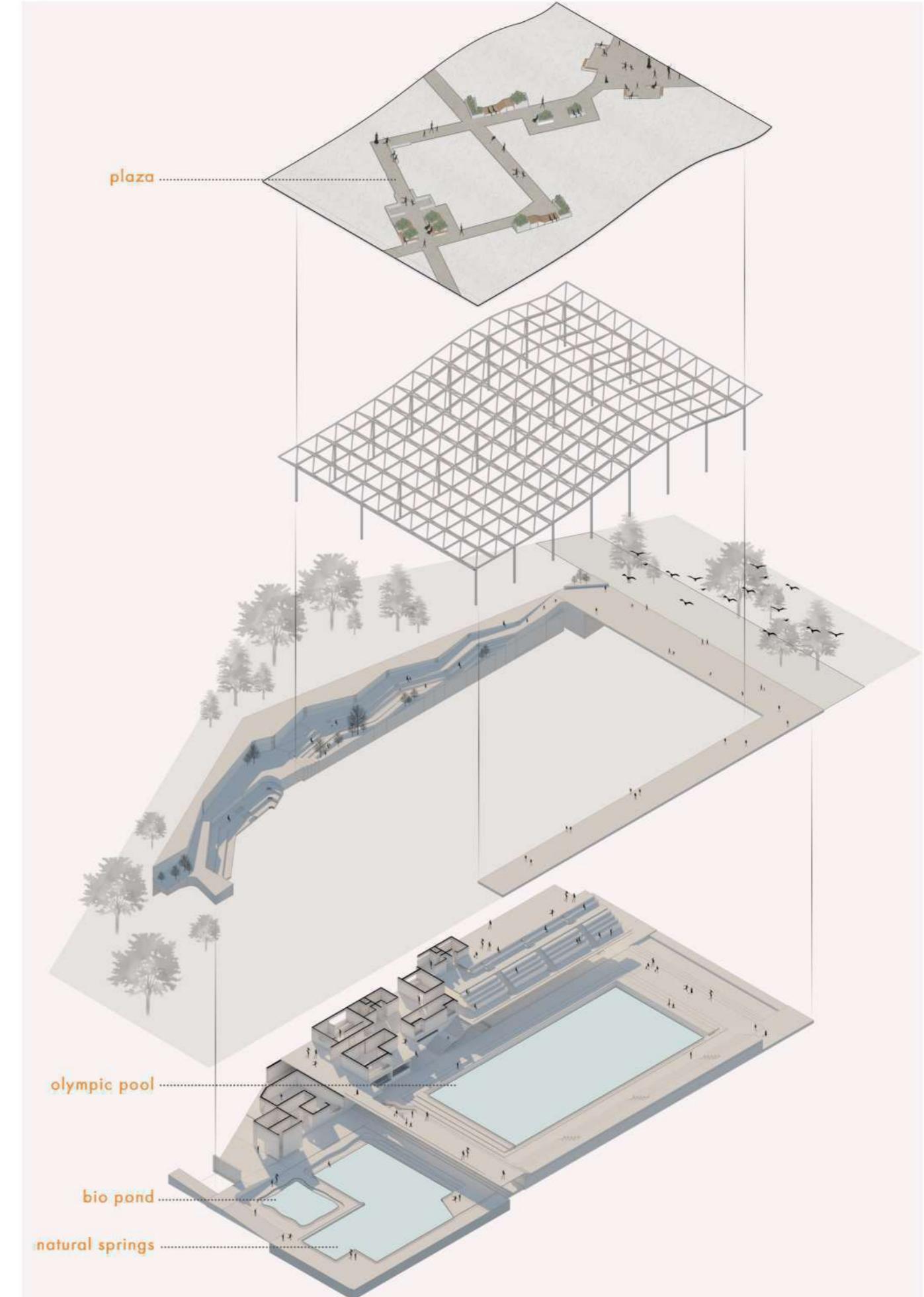
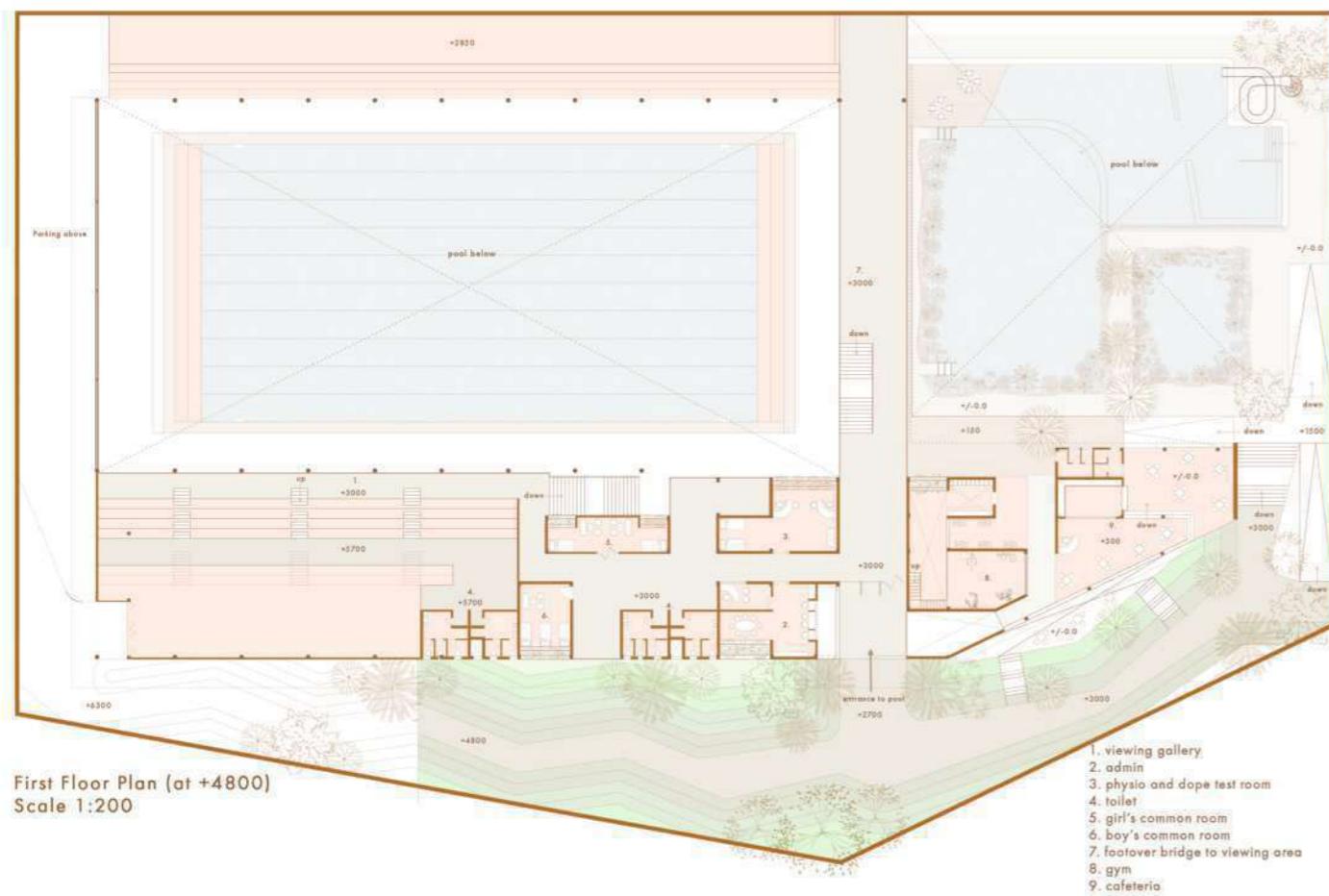
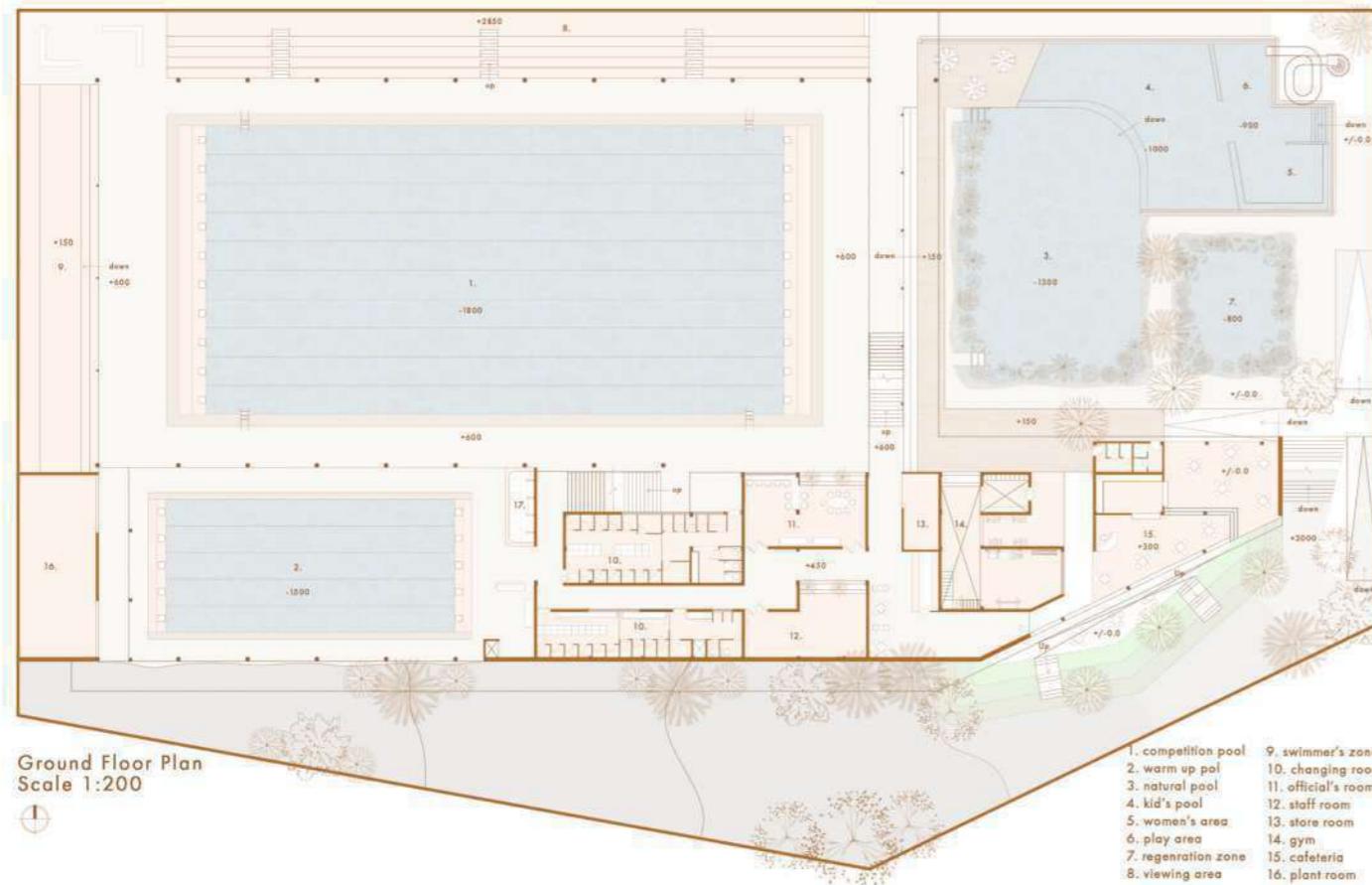
joining contours

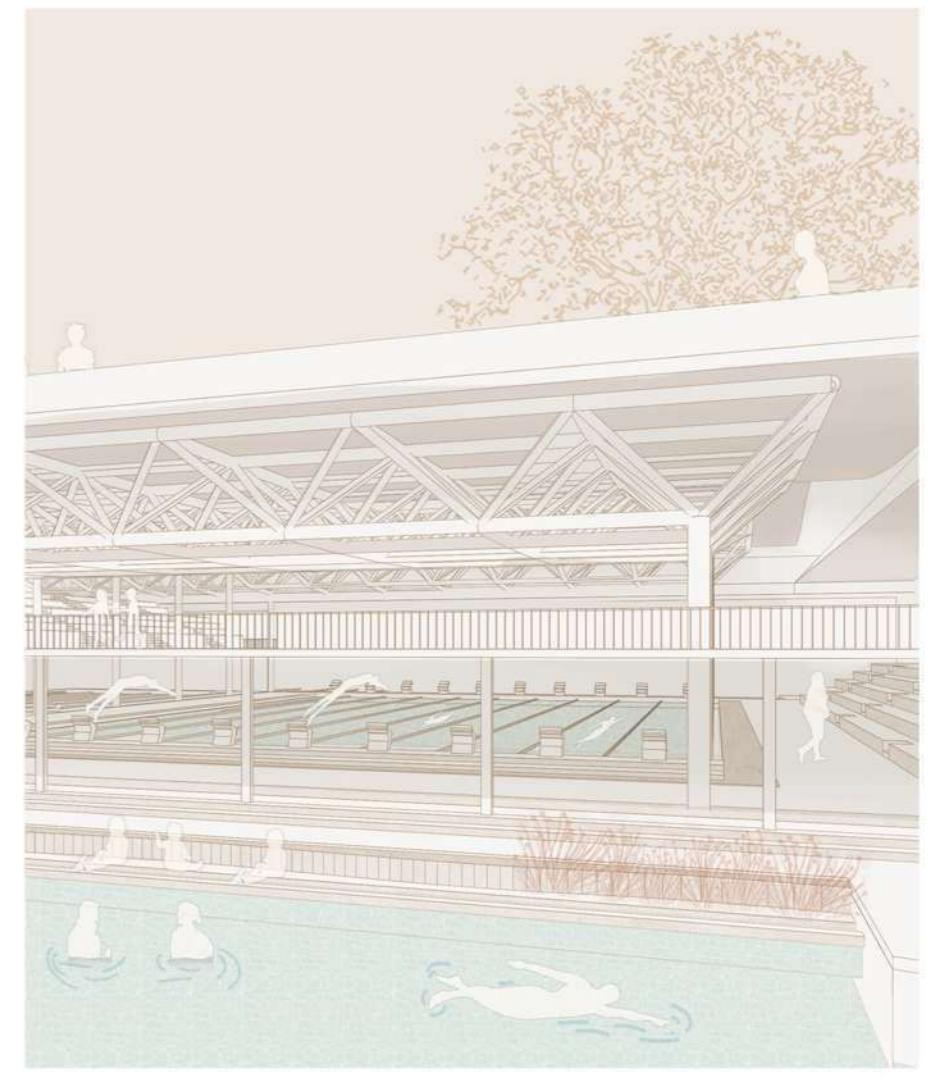
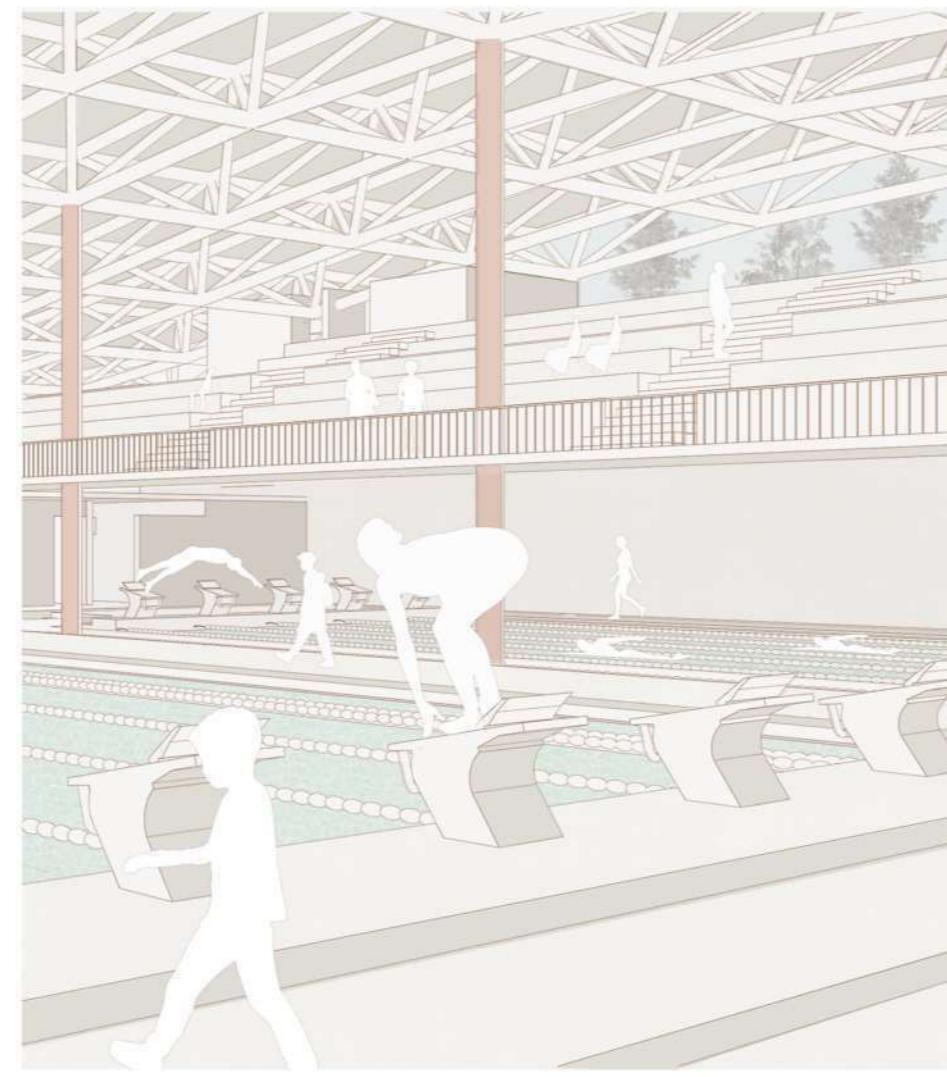
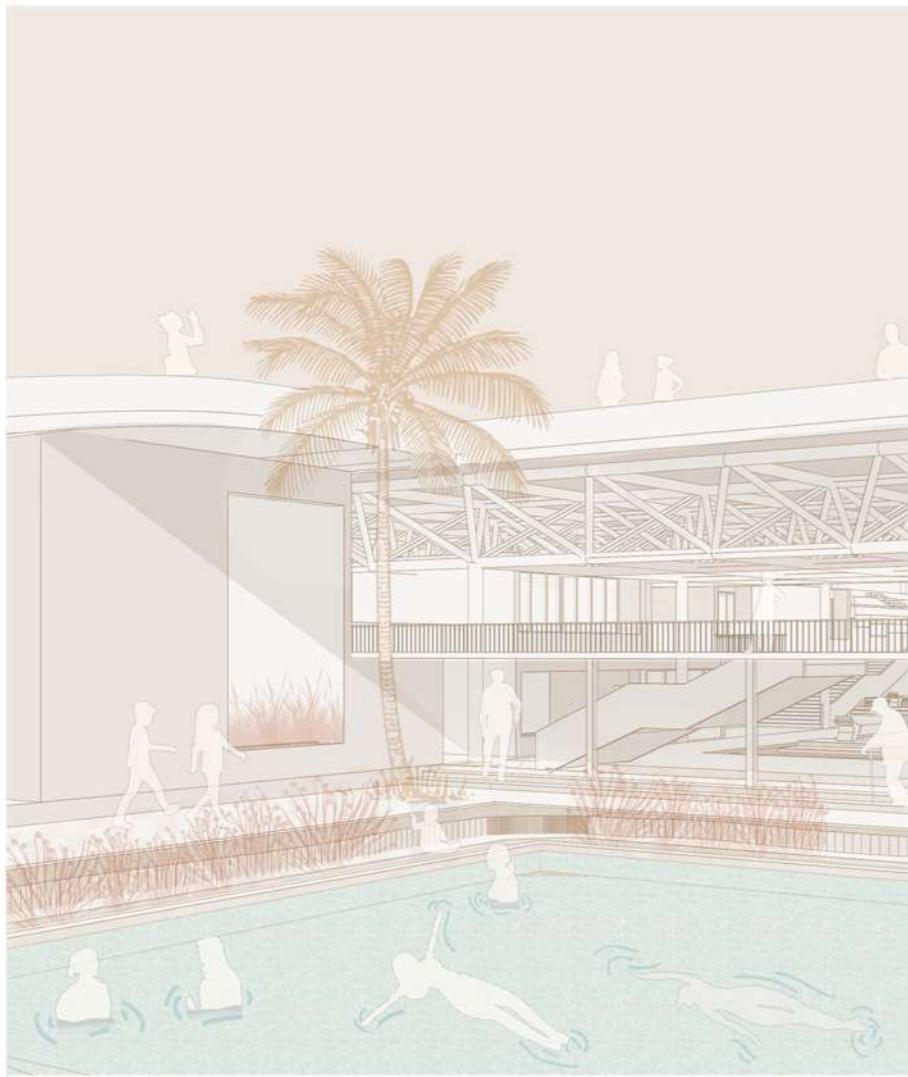


roof plaza



quarry and spring



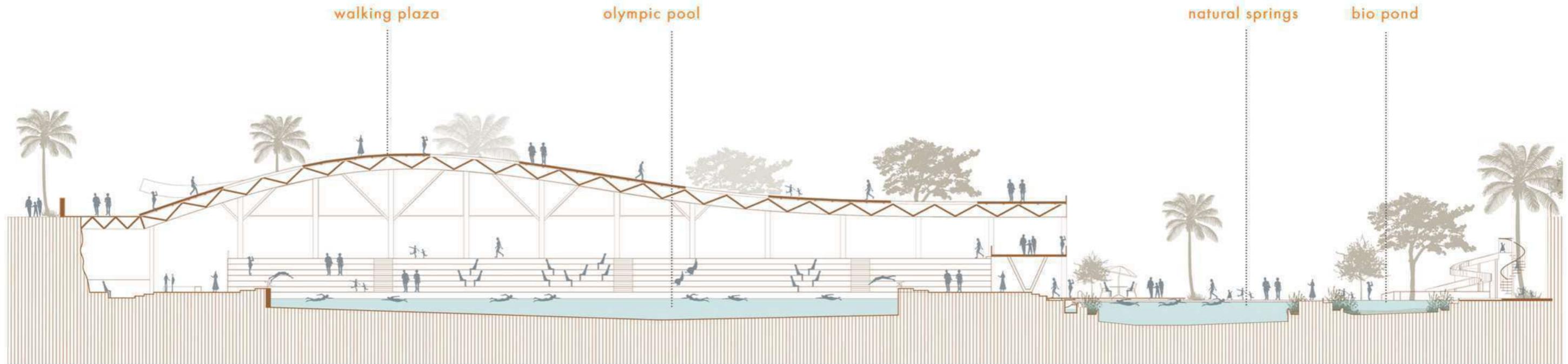


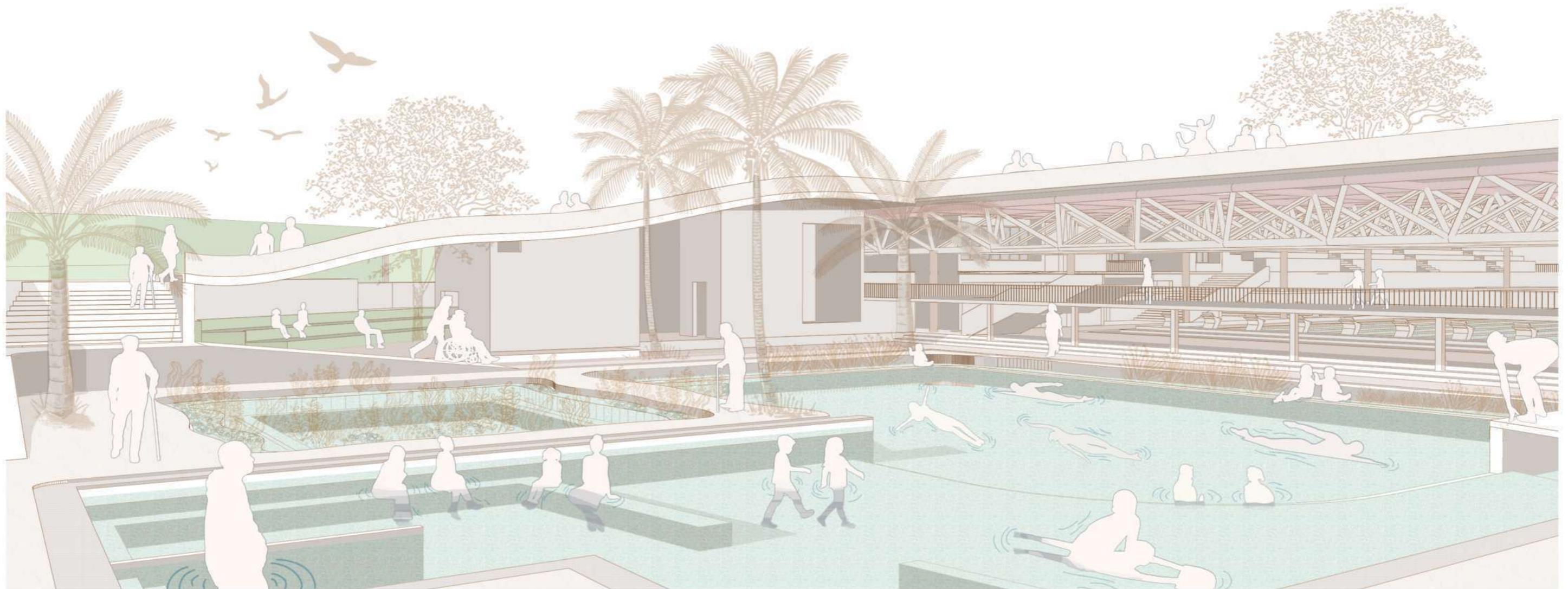
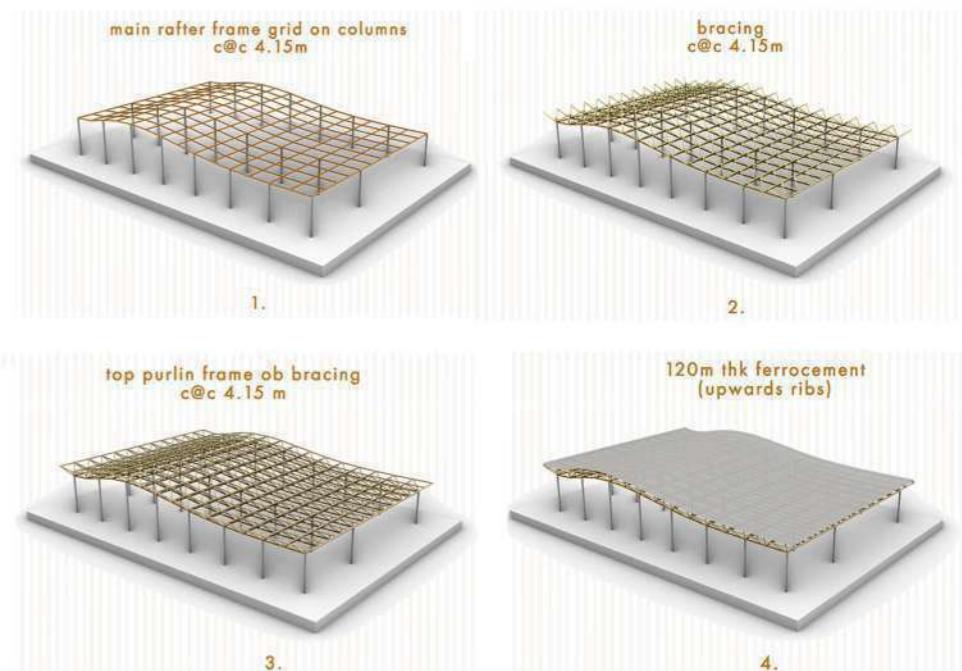
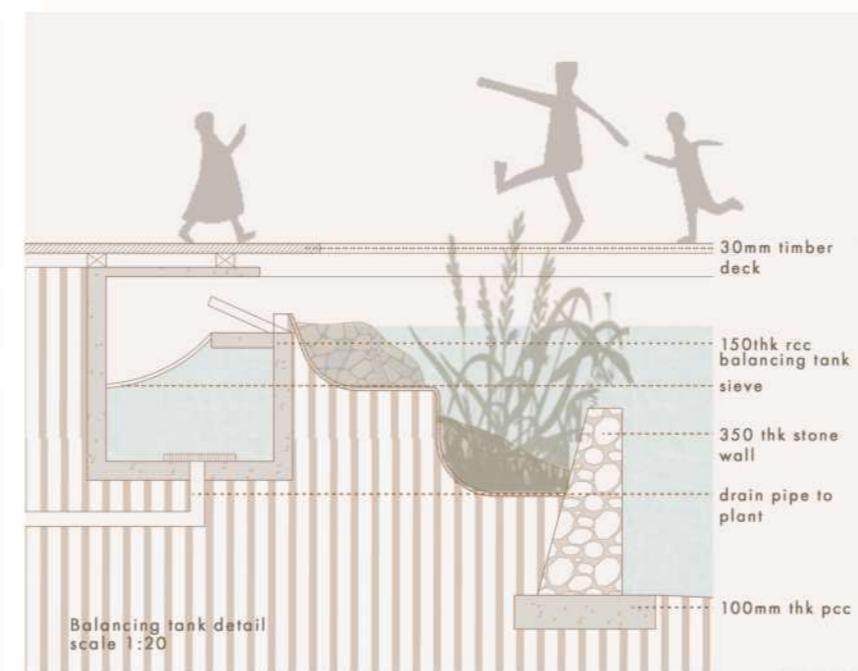
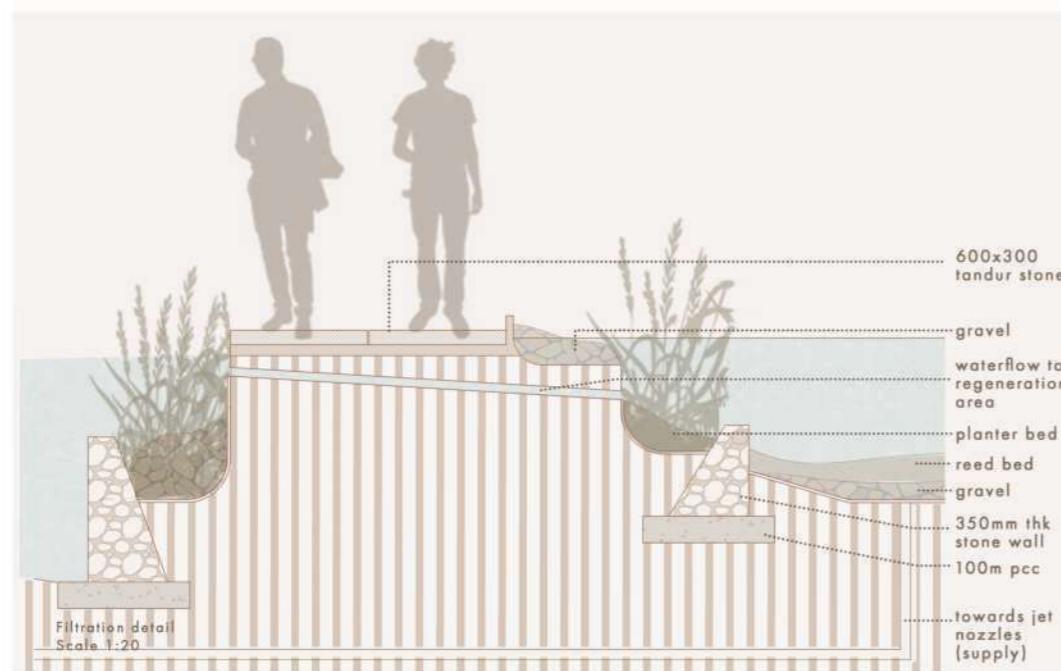
walking plaza

olympic pool

natural springs

bio pond





CROSSWEAVE

community housing

area : 2050 sq.m | location : S.Downtown, Atlanta | type : academic

grad sem: studio 1

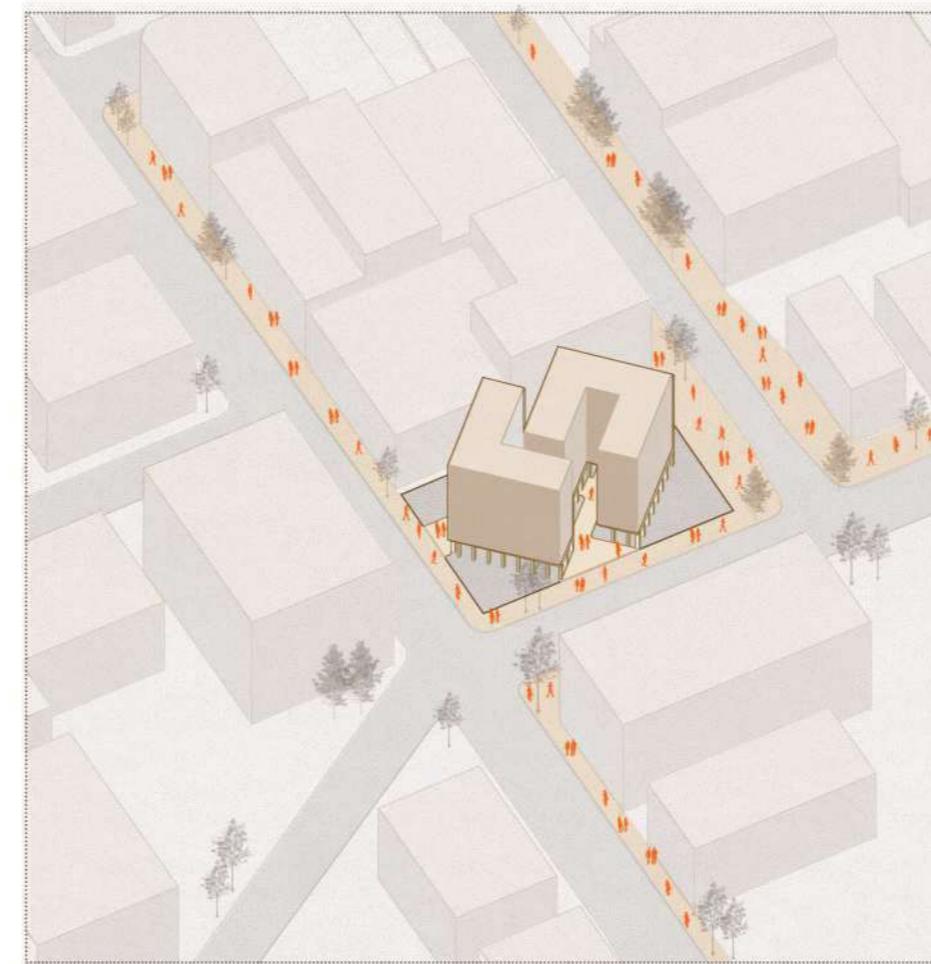
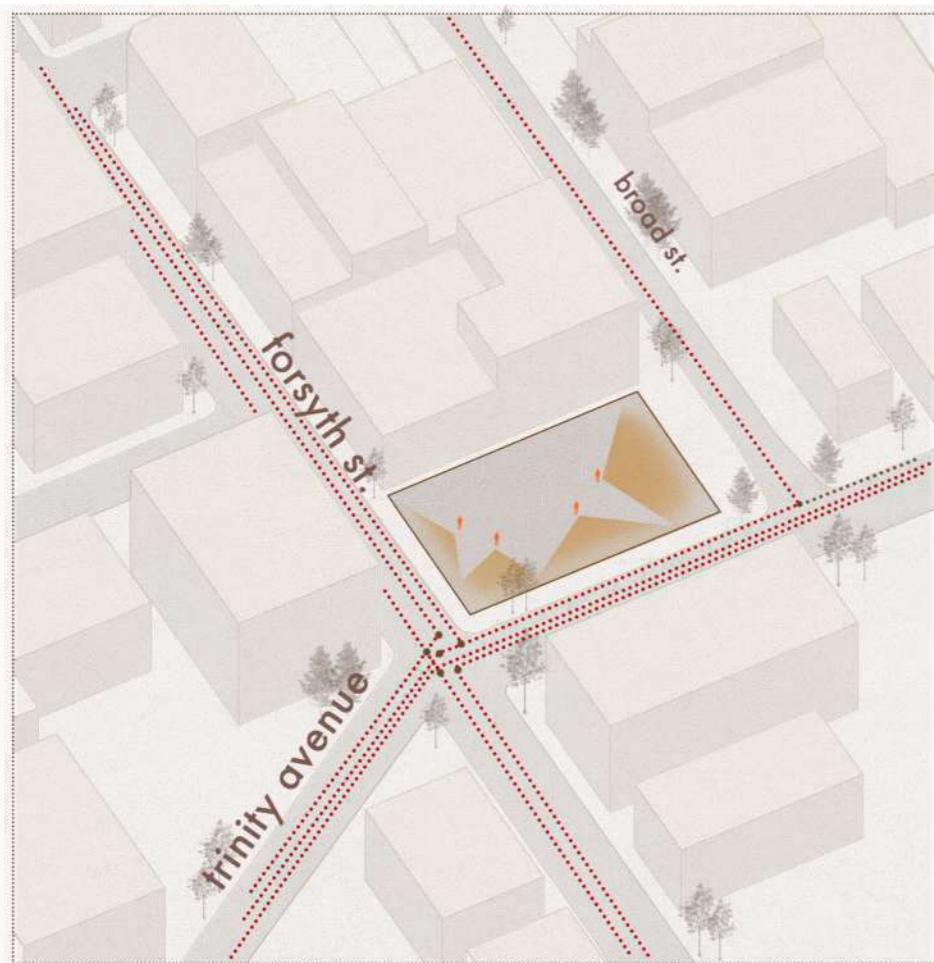
located in the heart of South Downtown Atlanta, along Trinity Avenue, the project reimagines urban living through a layered approach that blends housing, community, and movement. The design is based on a stacking concept of interlocking balconies, creating a dynamic façade without relying on cantilevers. Each level is strategically offset to foster visual connection, natural ventilation, and shared semi-private outdoor spaces that encourage interaction among residents.

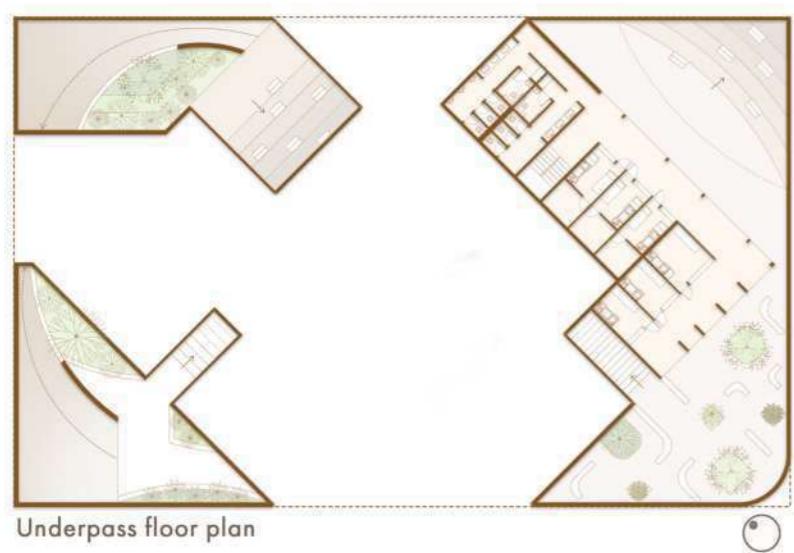
at the ground level, the building opens into a vibrant food plaza, serving as a social and cultural anchor for the neighborhood. This active base invites pedestrians from all directions, supported by pathways that cut across Broad Street, Trinity Avenue, and Forsyth Street, seamlessly connecting the site to the larger urban fabric. The circulation pattern not only enhances walkability but also revitalizes the underutilized edges of the downtown corridor.





design development

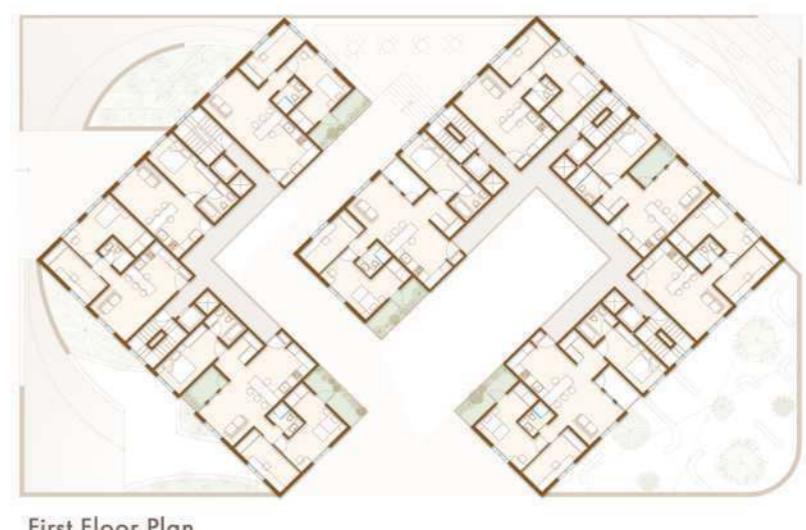




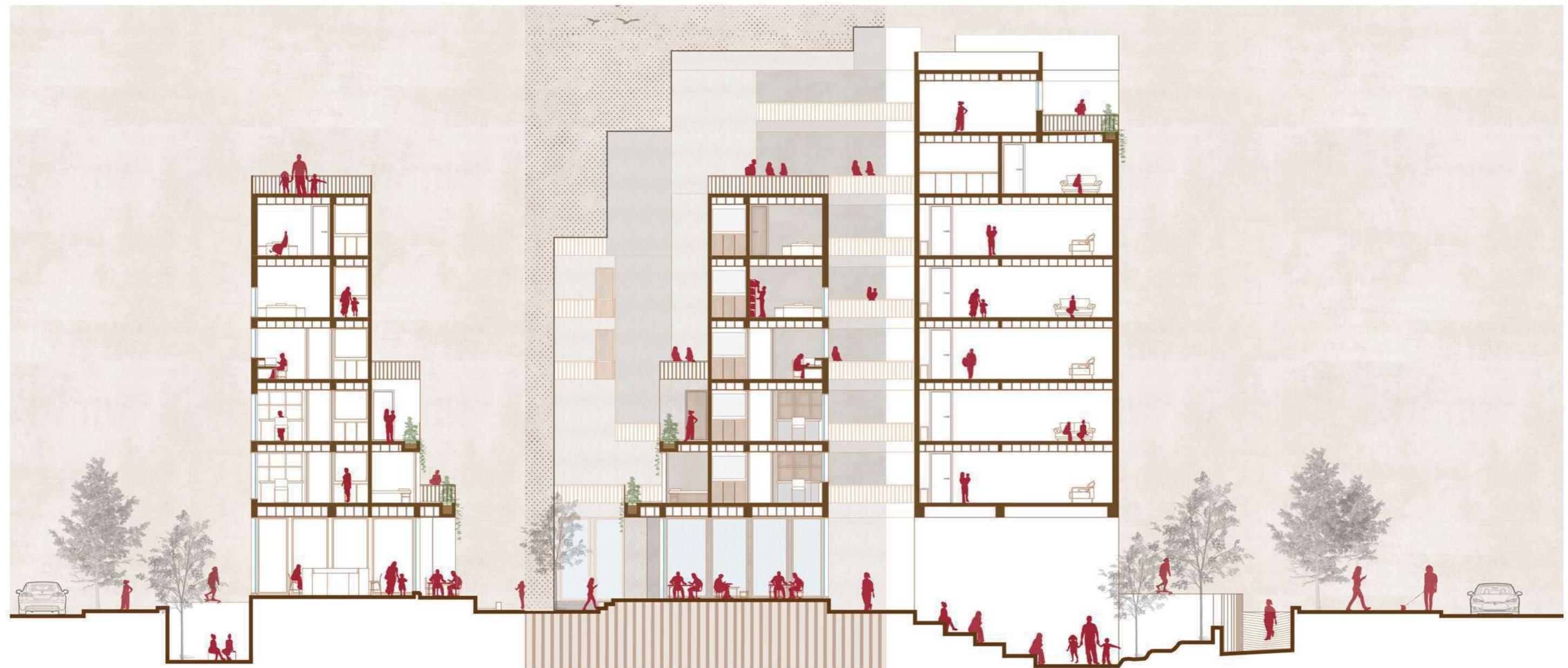
Underpass floor plan

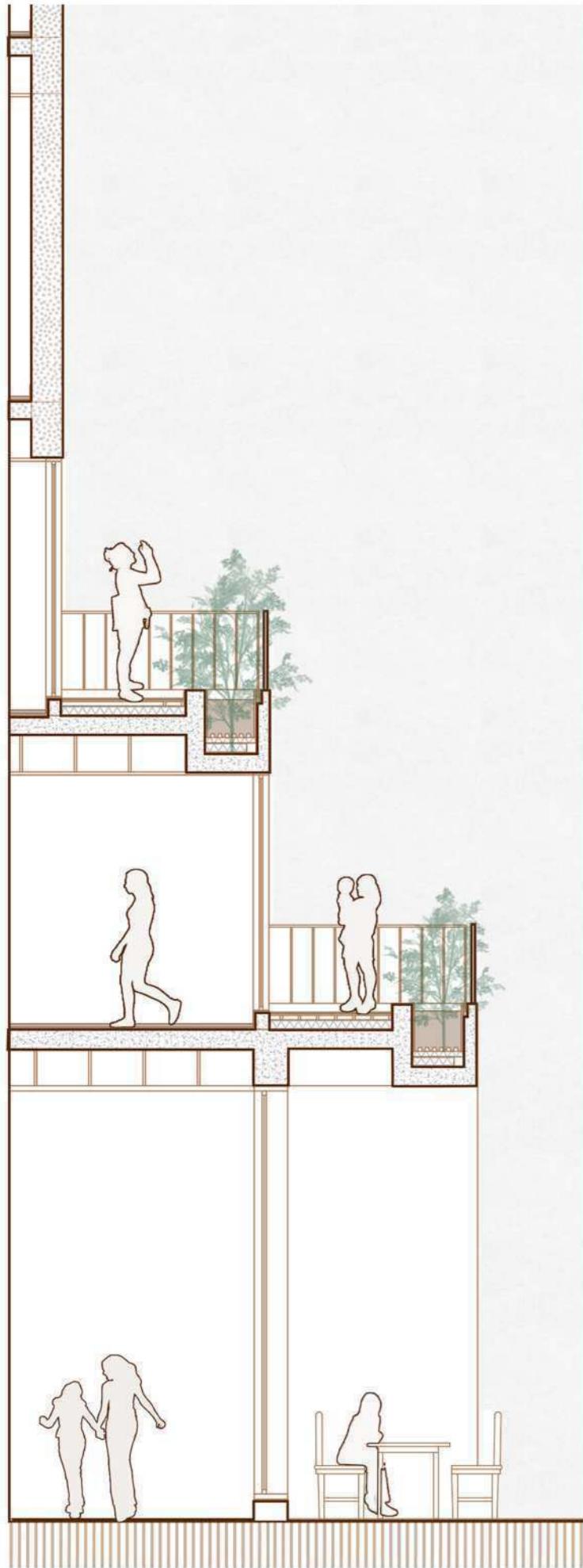


Ground Floor Plan



First Floor Plan





MCA

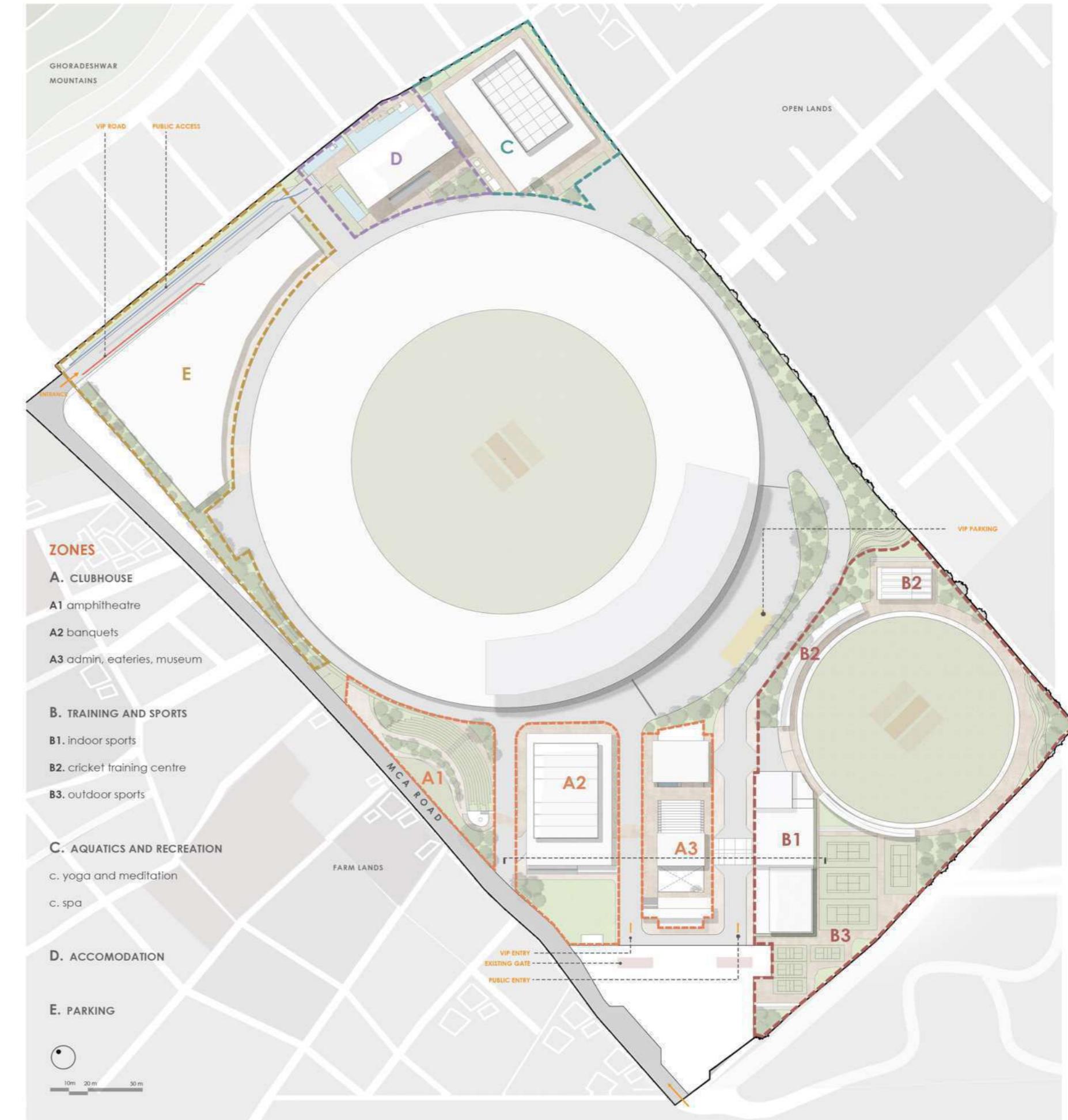
sports village for cricket association

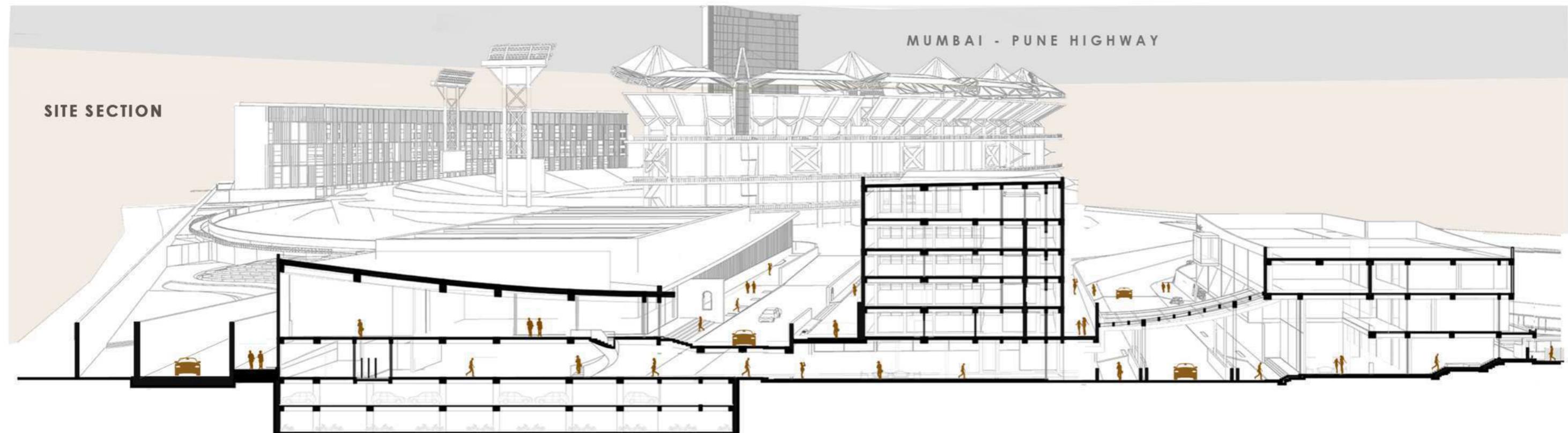
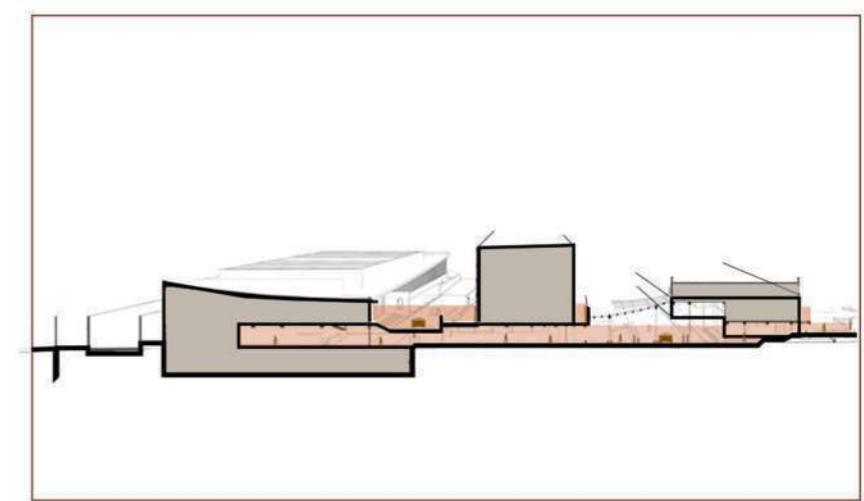
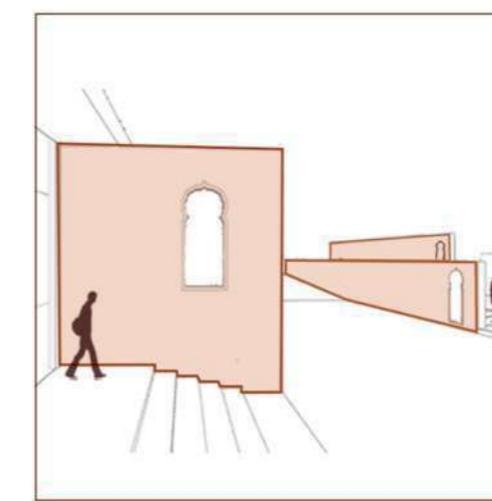
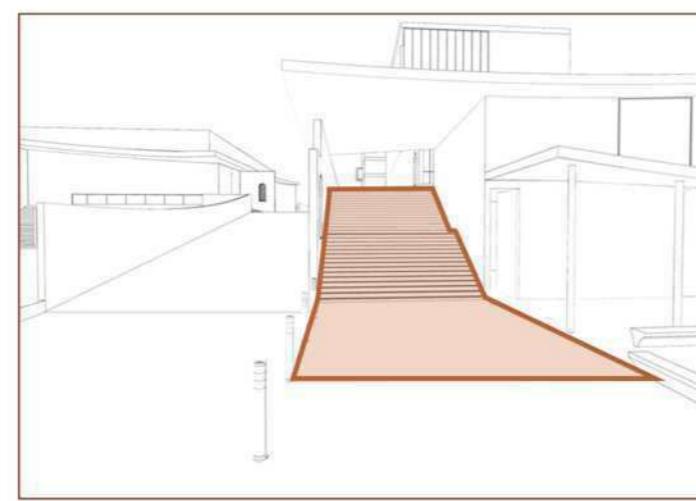
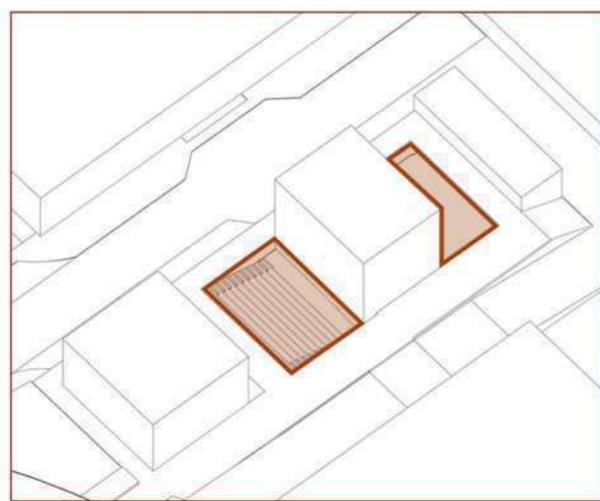
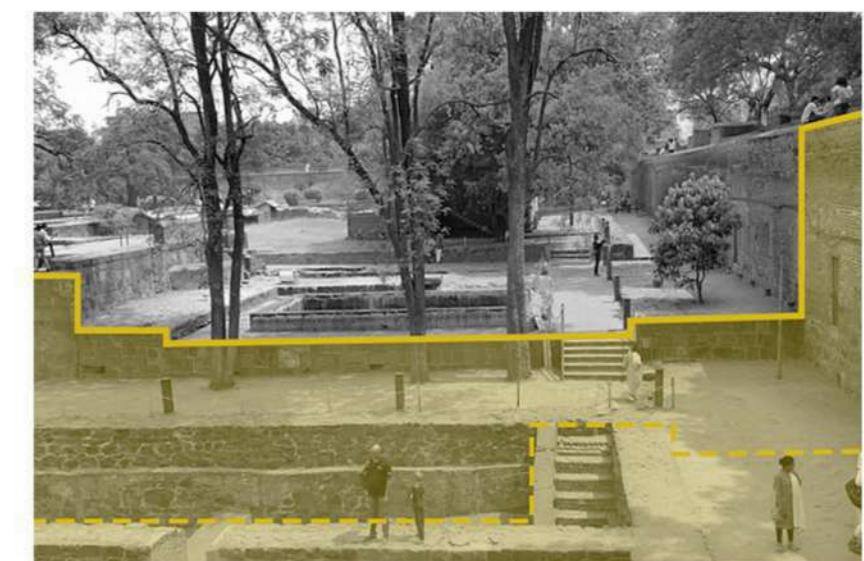
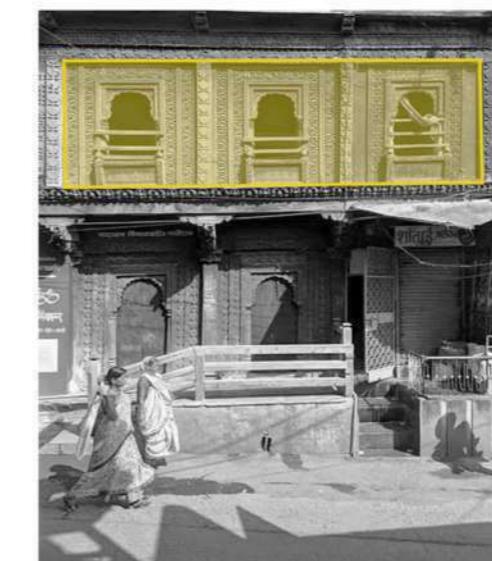
area : 20k sq.m | location : Gahunje, Pune, India | type : professional

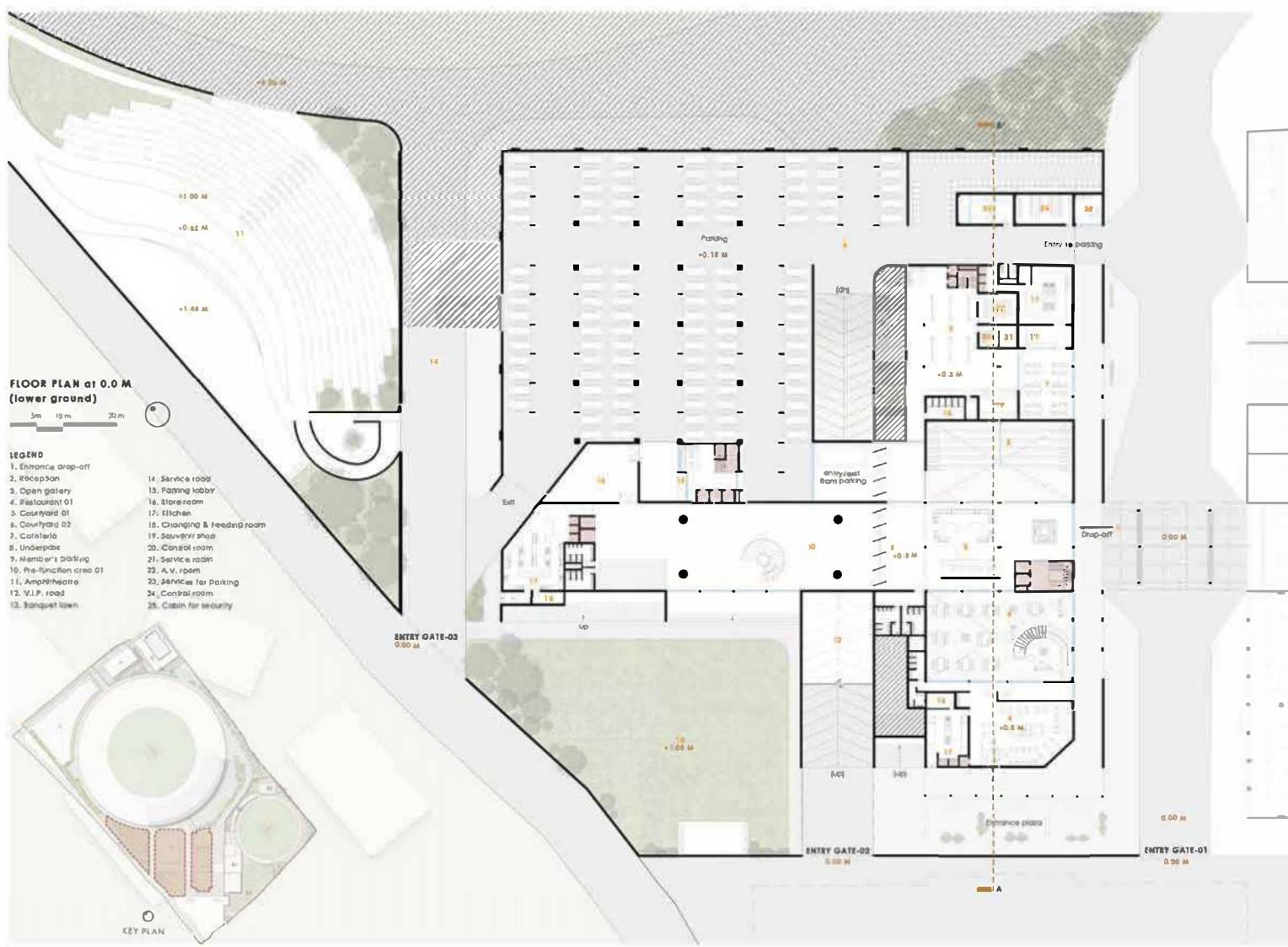
contribution: design, drawings, modeling, rendering
co live is an approach grasping on the idea of intergenerational living in PCMC, Pune. It offers a range of accommodations, including single-sharing, four-sharing, six-sharing rooms, and two-sharing units for married couples. The staggered floor arrangement creates terraces and varied visual planes, allowing interaction and enhancing the overall aesthetic. Box windows punctuate the facade, adding architectural interest and a sense of rhythm to the building's exterior.

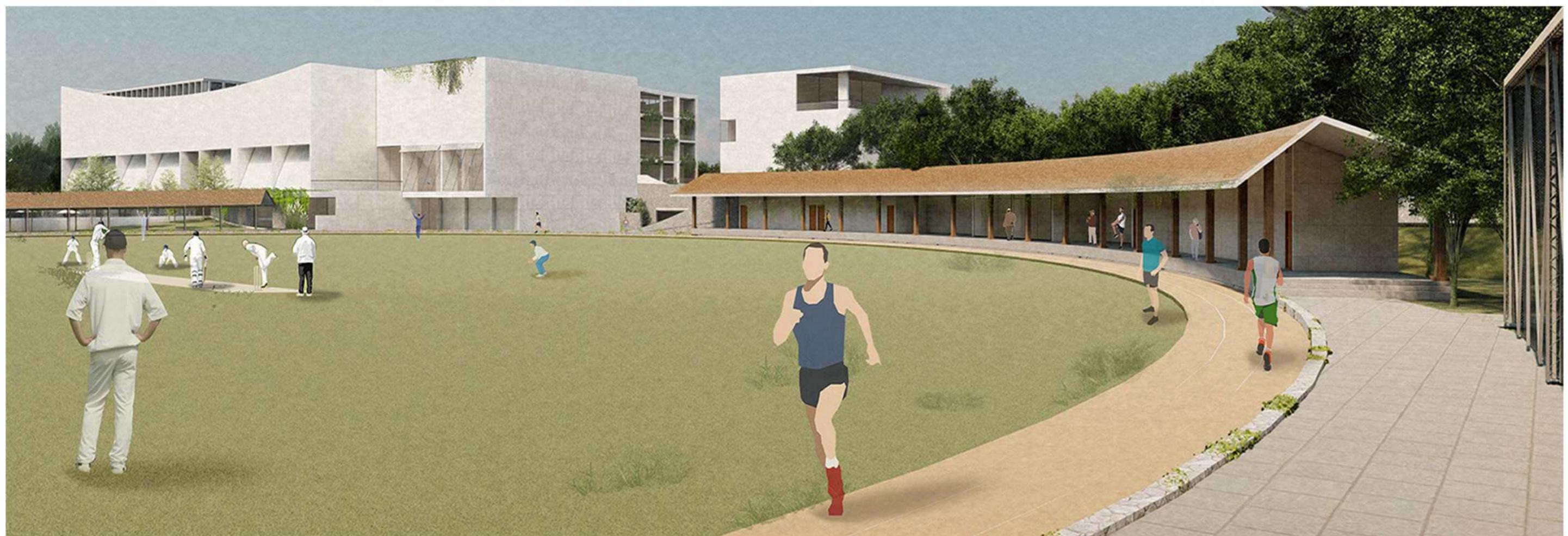
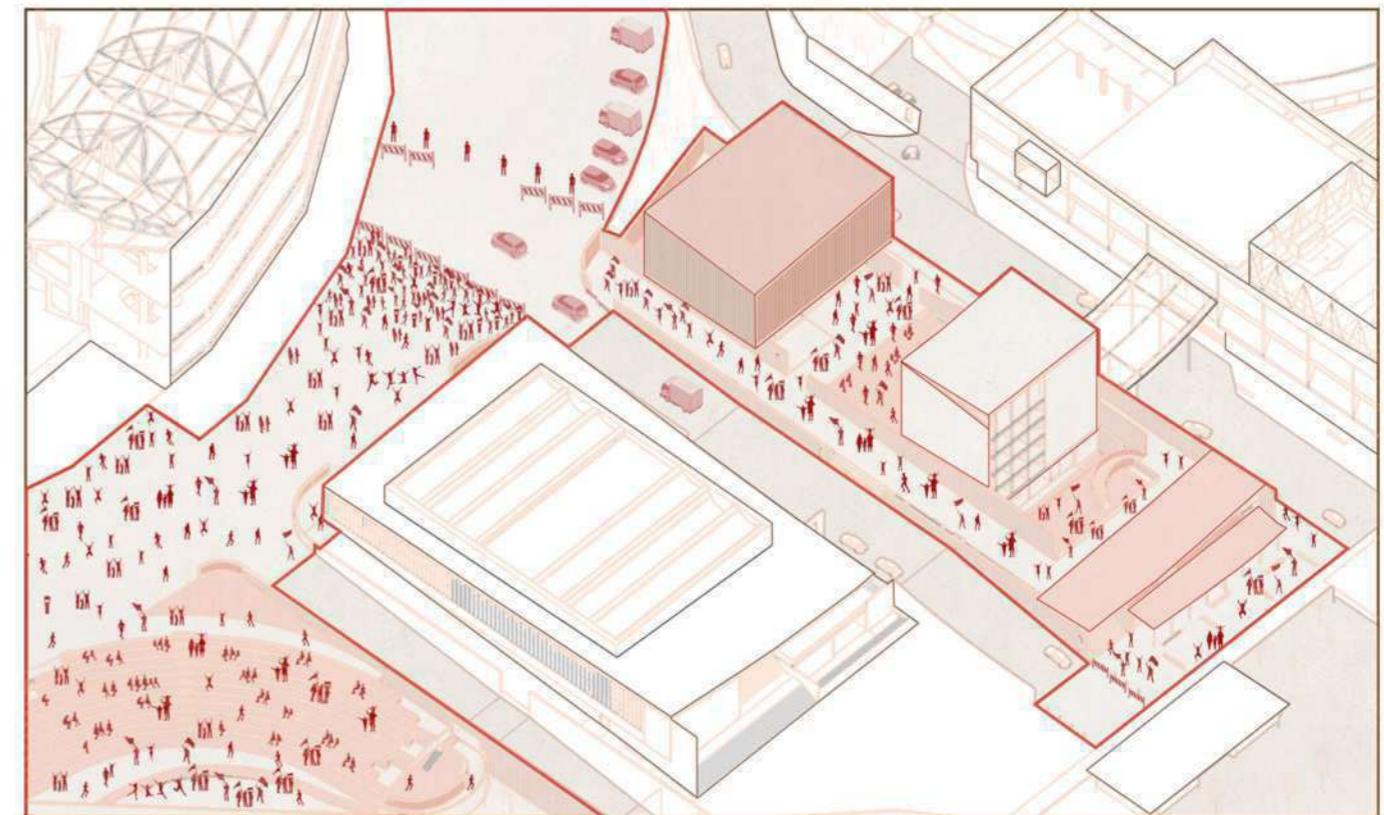
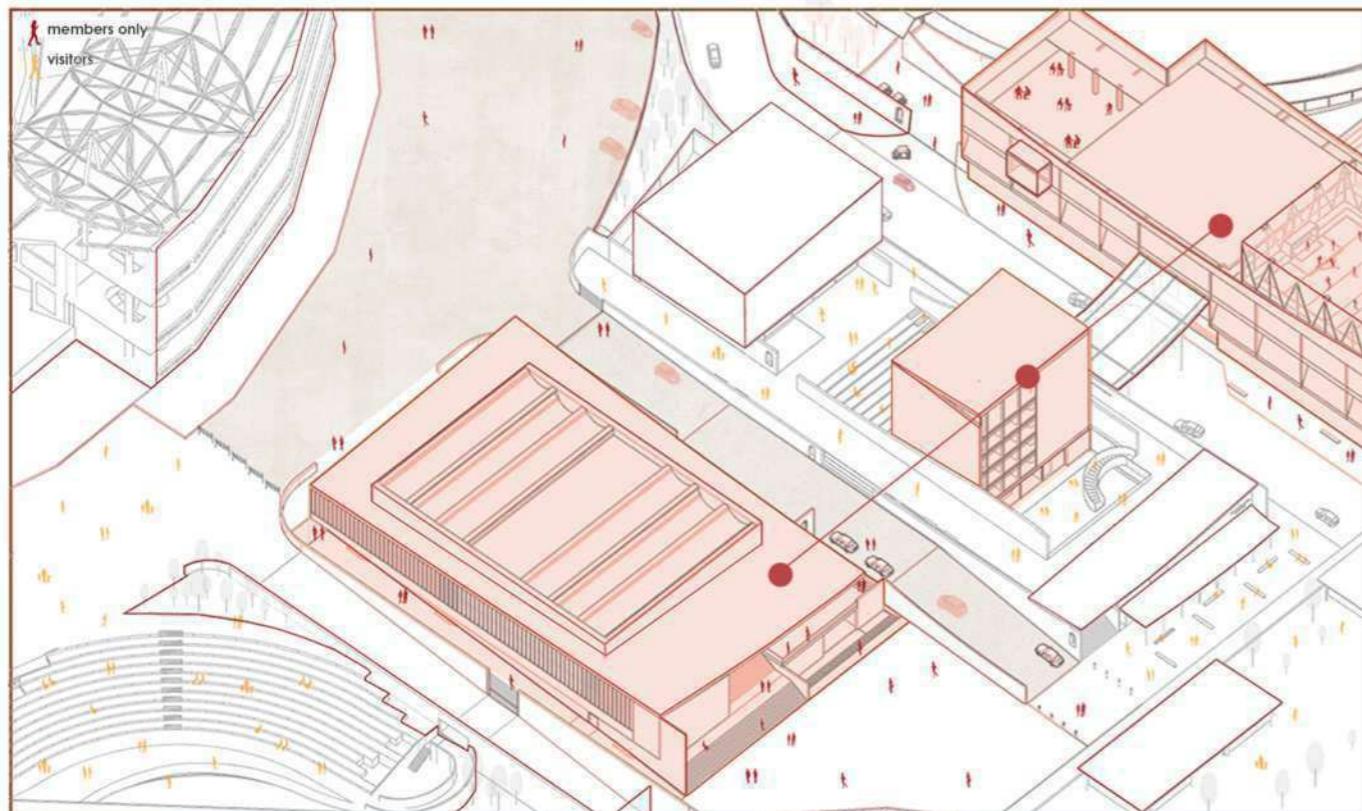
the project also incorporates a cafeteria and a library, encouraging communal engagement and intellectual exchange. Extensive open areas provide ample room for outdoor activities, further nurturing a sense of community. This hostel goes beyond basic accommodation by offering a holistic environment that promotes interaction, learning, and leisure, while maintaining a balance between public and private spaces

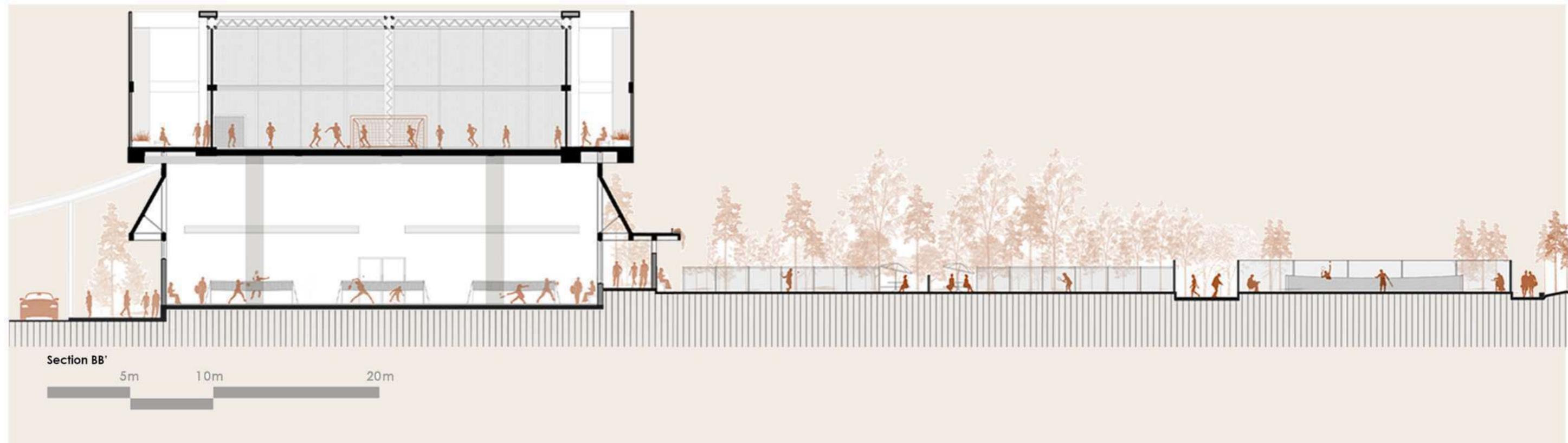




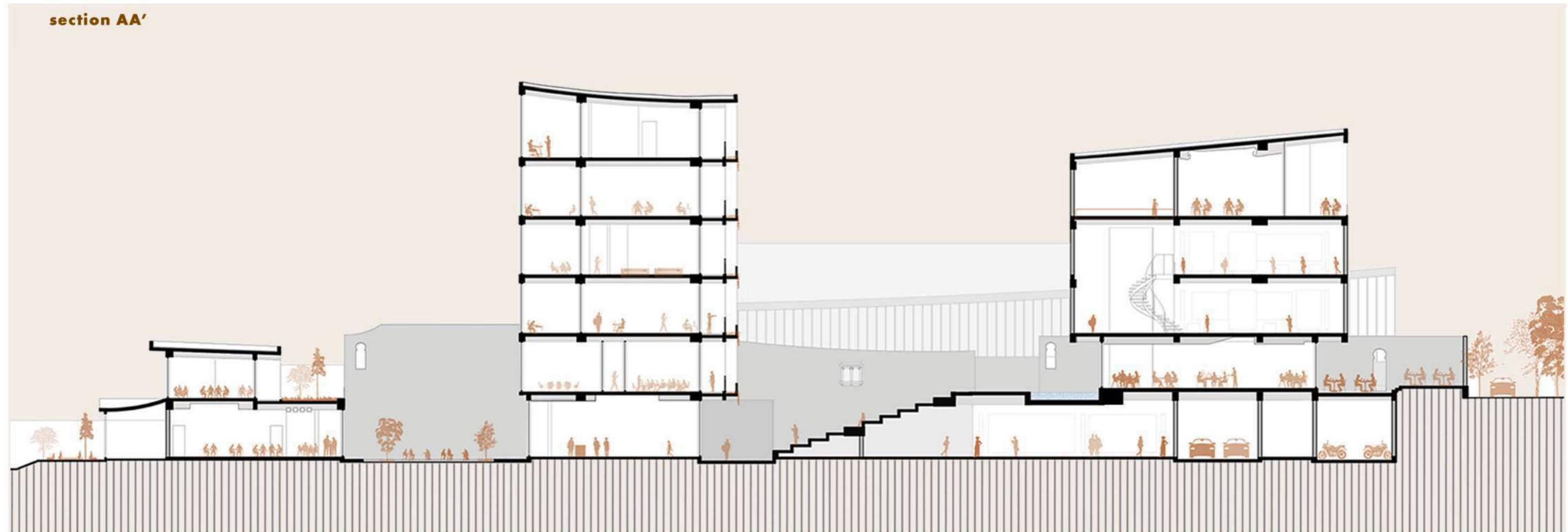
frame of reference







section AA'





walk to work

modular coworking spaces

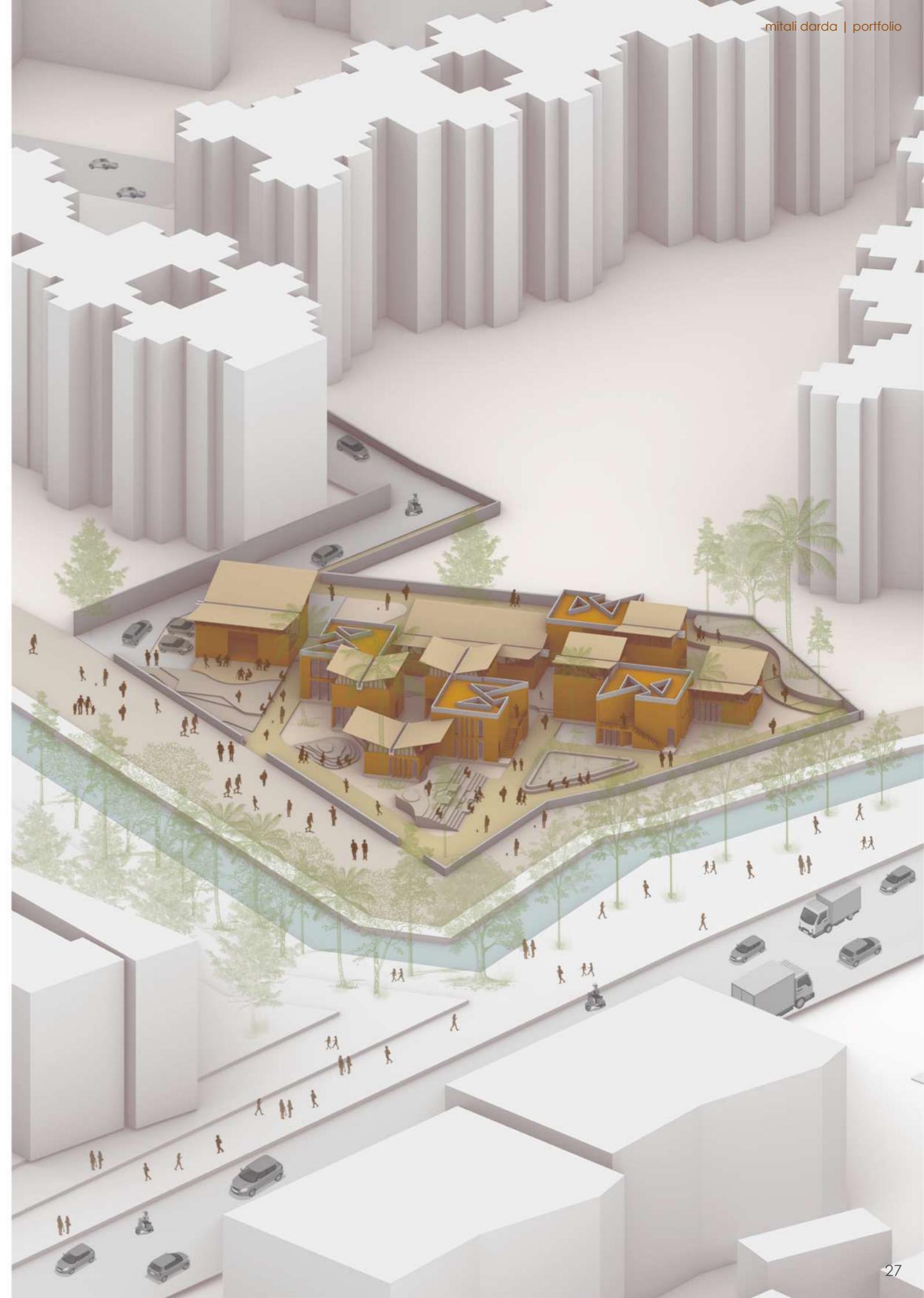
area : 4128 sq.m | location : Kharadi, Pune | type : academic

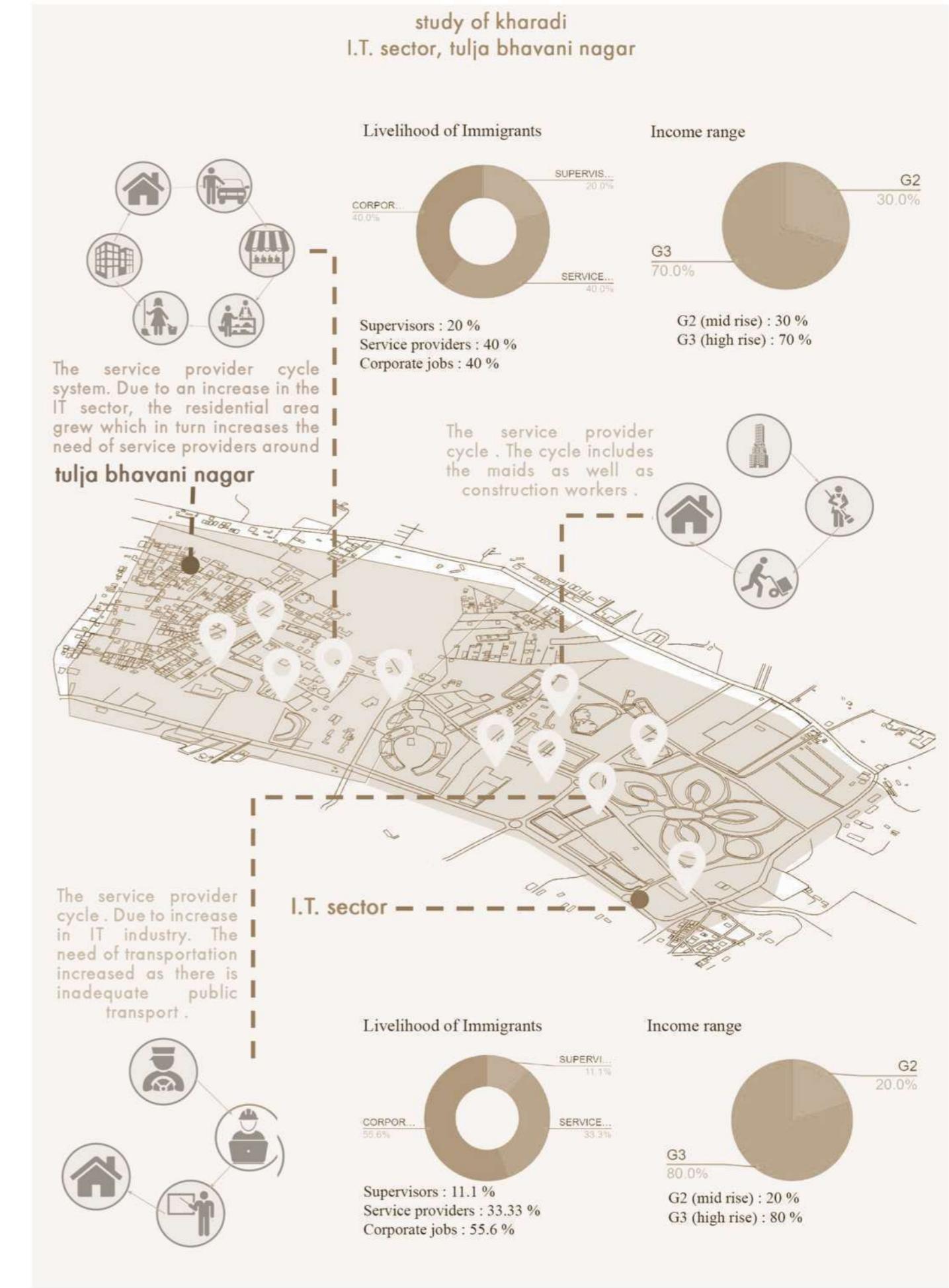
sem 8: indiv. design

this modular coworking space, located on the banks of the Mula Mutha tributary in the Kharadi neighborhood, is designed with a deep respect for the local ecology. The architectural layout embraces the natural contours of the land, minimizing disruption to the surrounding environment.

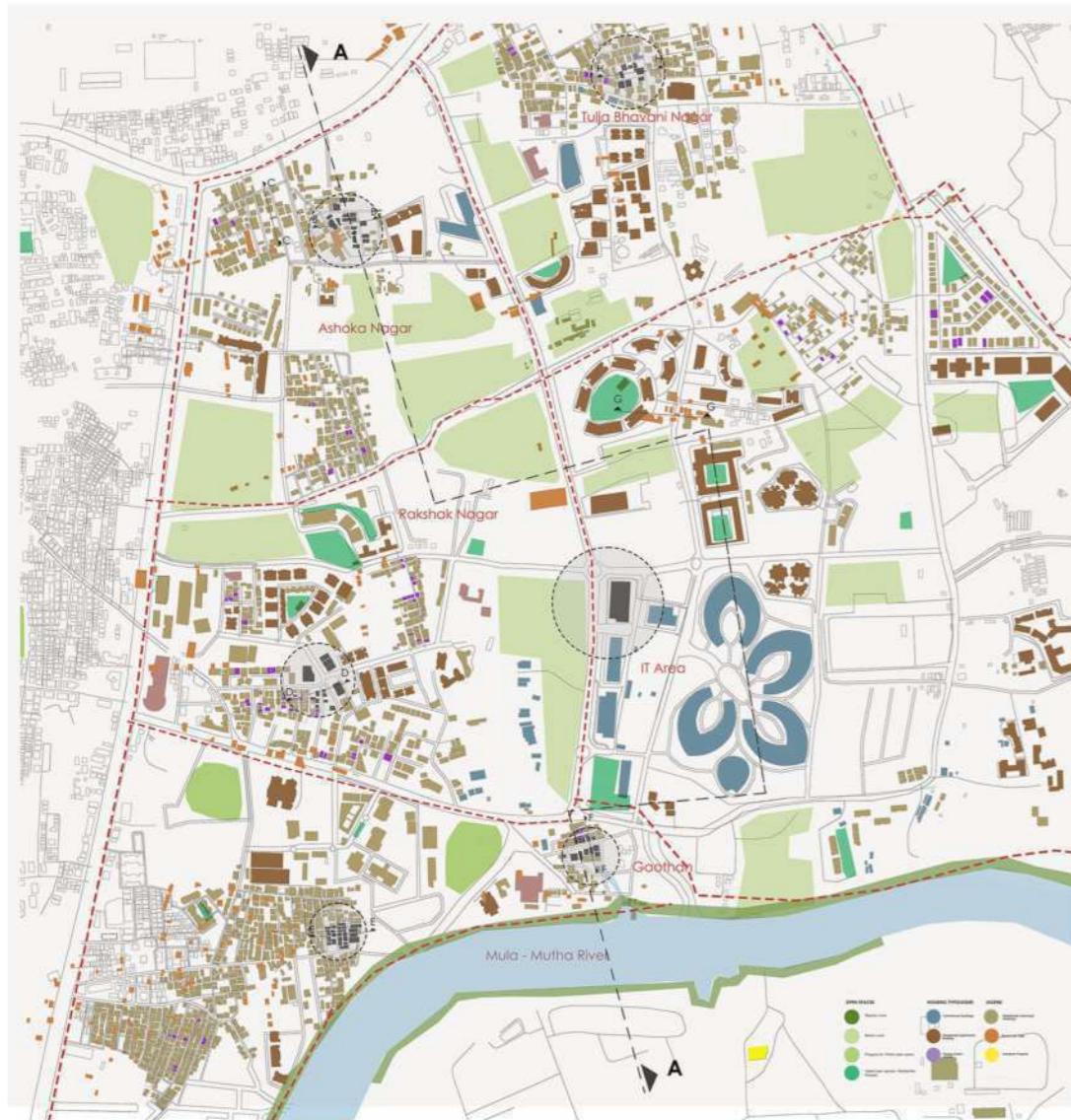
the neighbourhood of Kharadi is majorly categorized under the I.T. sector. After a three-week study of the neighborhood, a common matter in question surfaced underlying the lack of a healthy work environment, especially for working mothers. Commutation to work under an accepted time limit reflected poorly on managing chores at home.

a responsive infusion extended to existing residential quarters. Focusing primarily on the idea of walking to work, modules responding to passive design strategies and open learning seemed an appropriate solution.





built vs unbuilt typologies and requirements

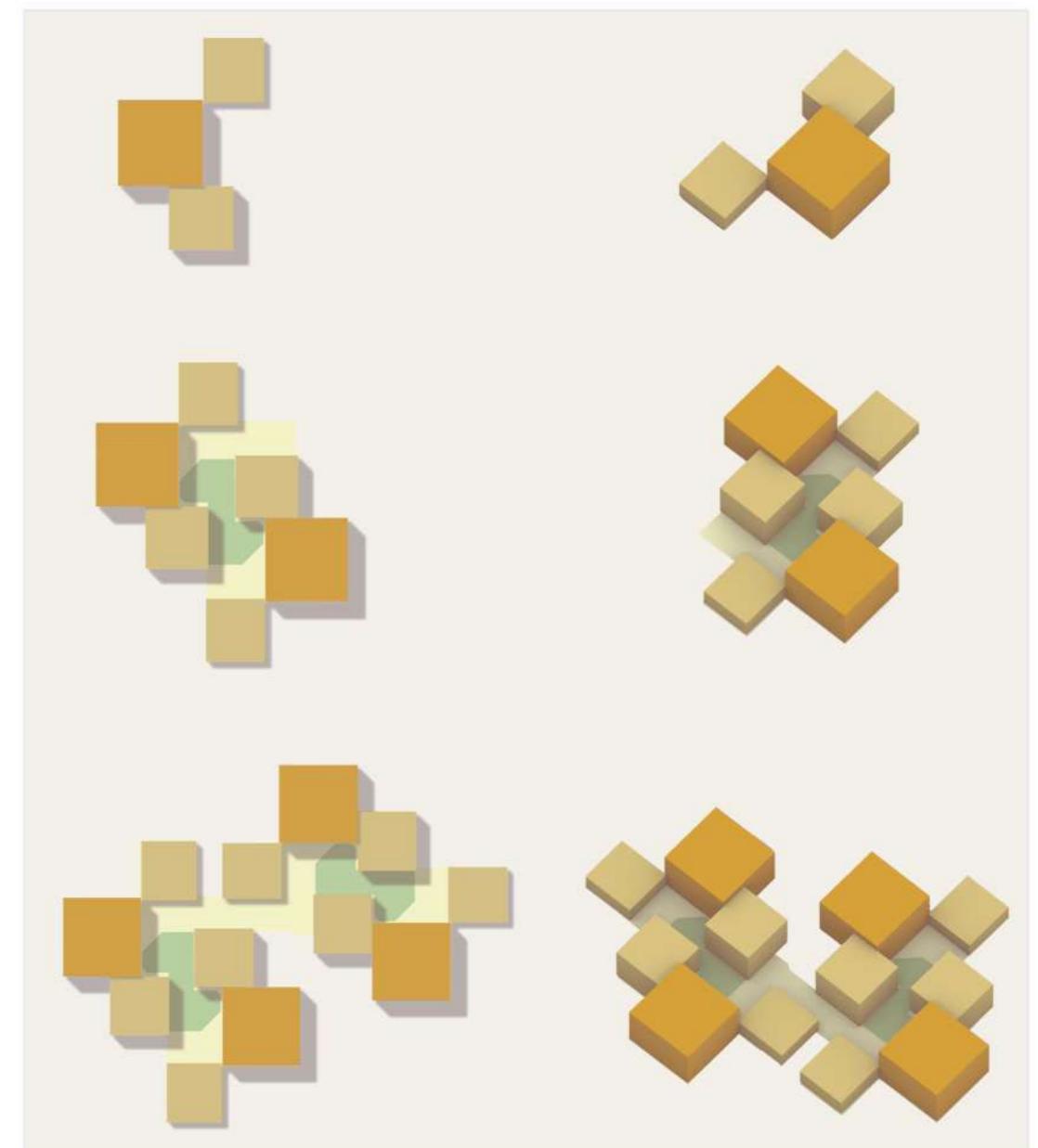


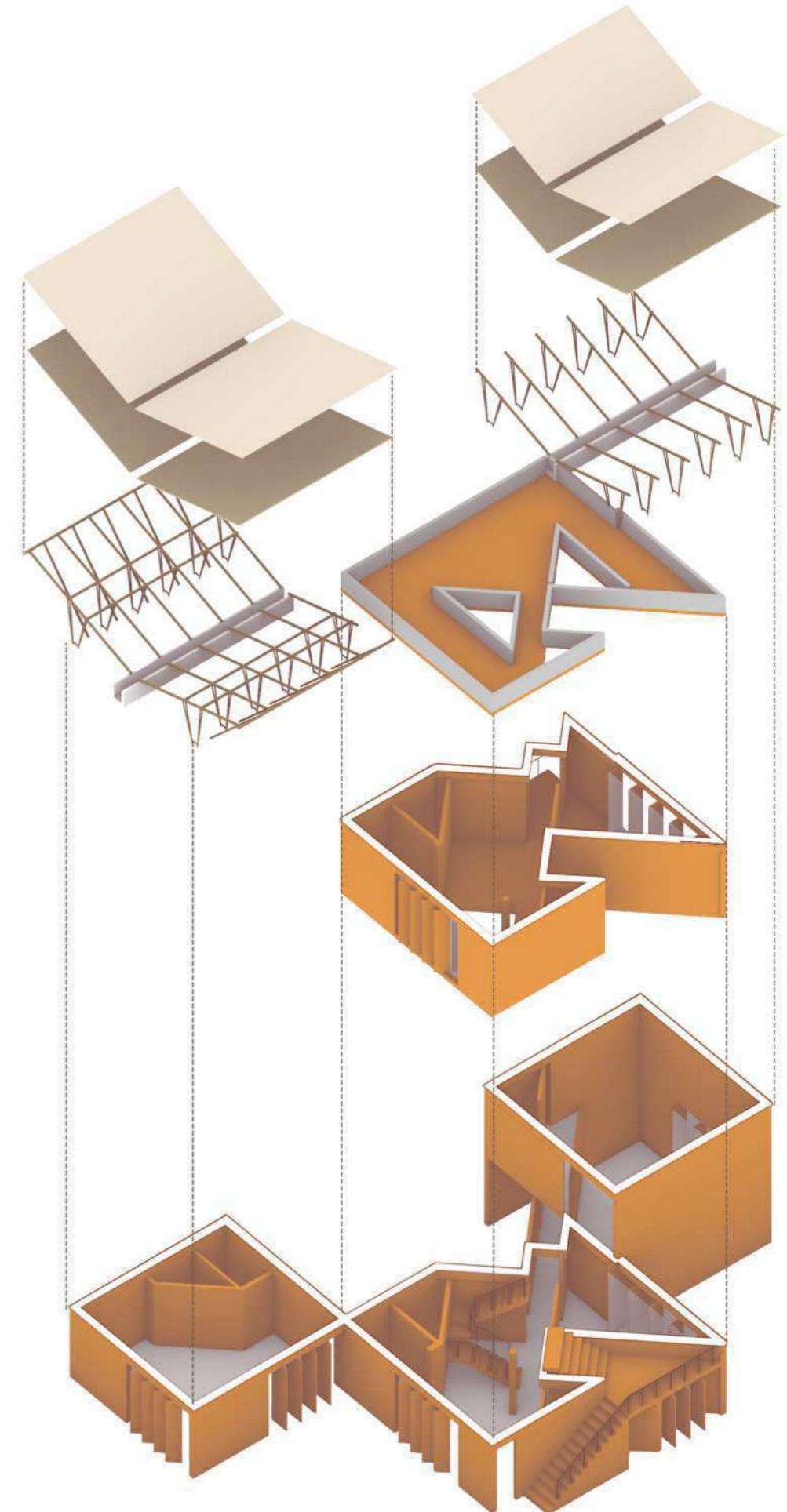
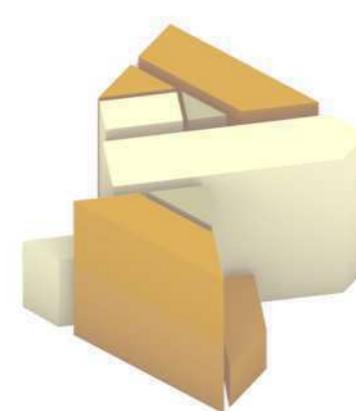
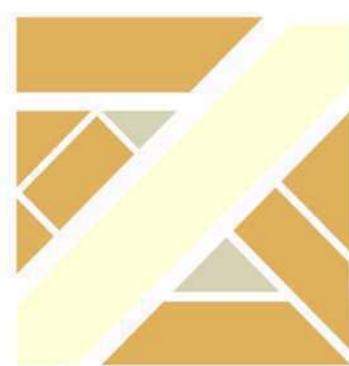
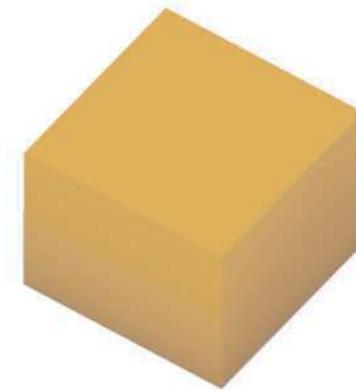
scope of built along the tributary

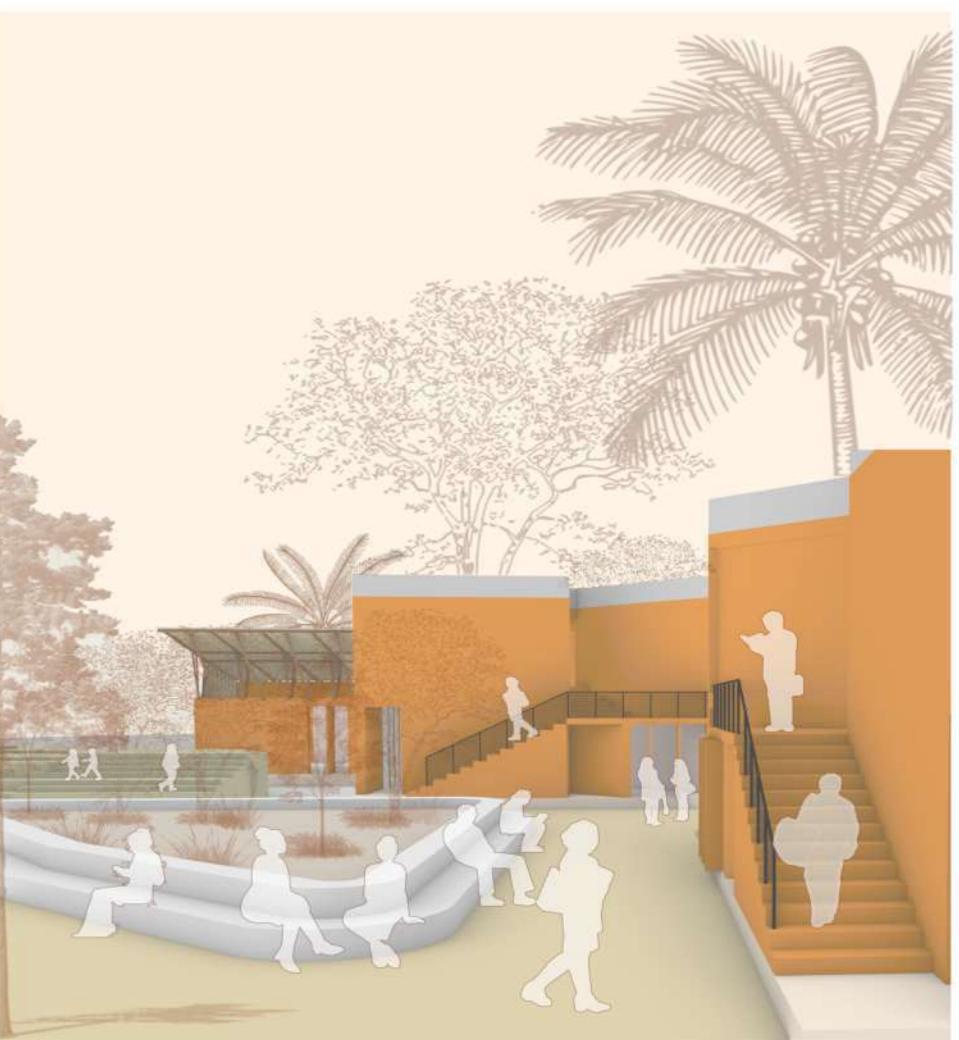
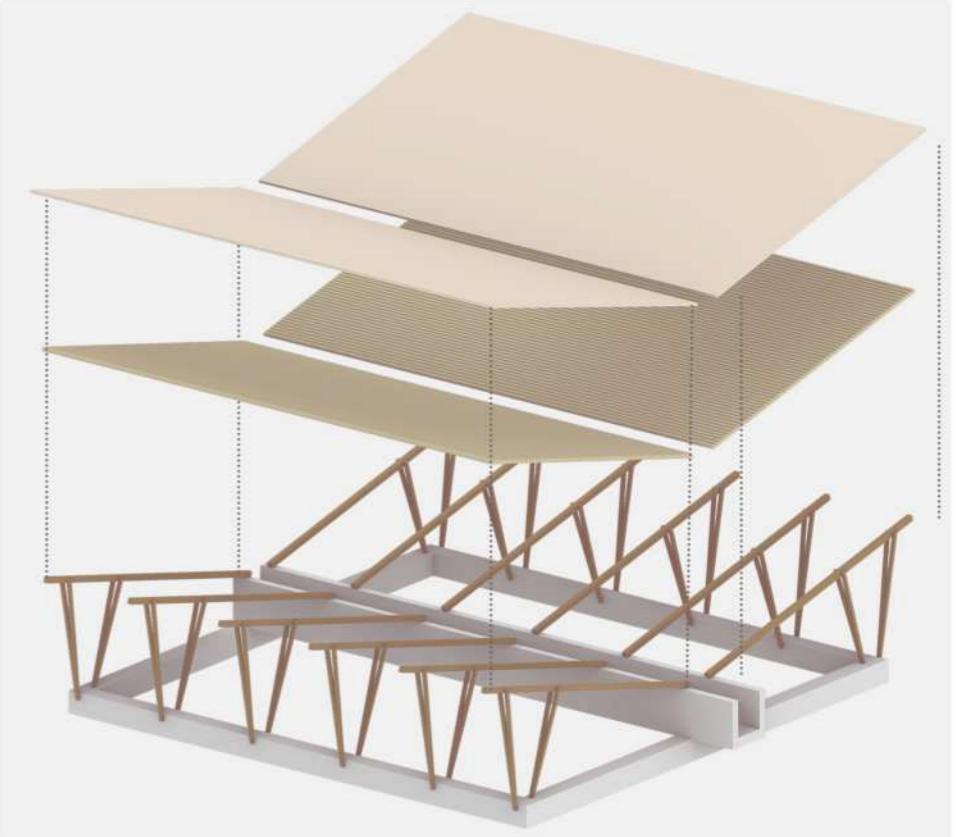
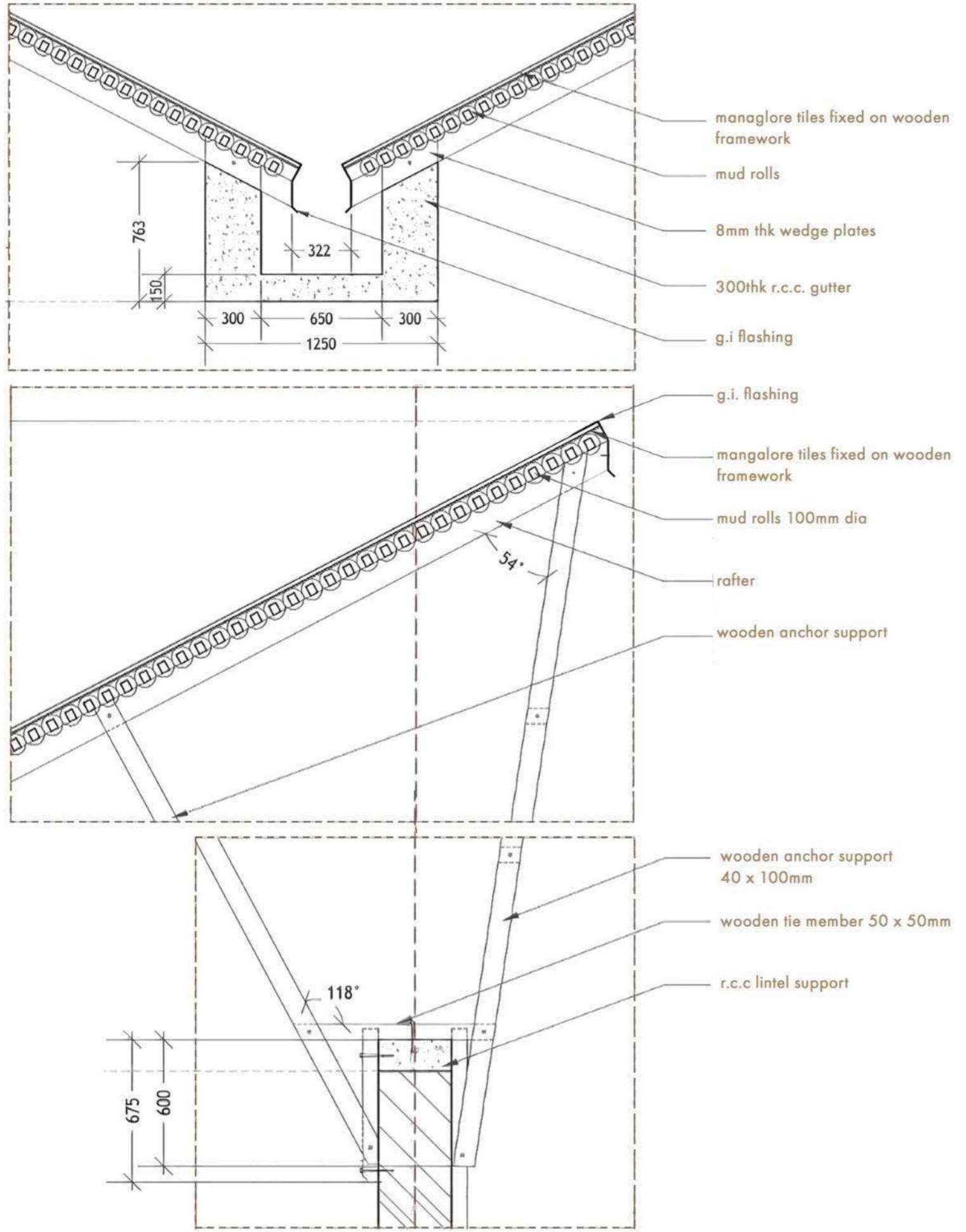


a group theme extended to each individual to expand on the lines of ecology. Individual inserts along the tributaries of the river incorporating an 8m wide stretch for riverfront development. An extensive study of the area and livelihood led to an outcome of co working inserts at multiple sites.











co live

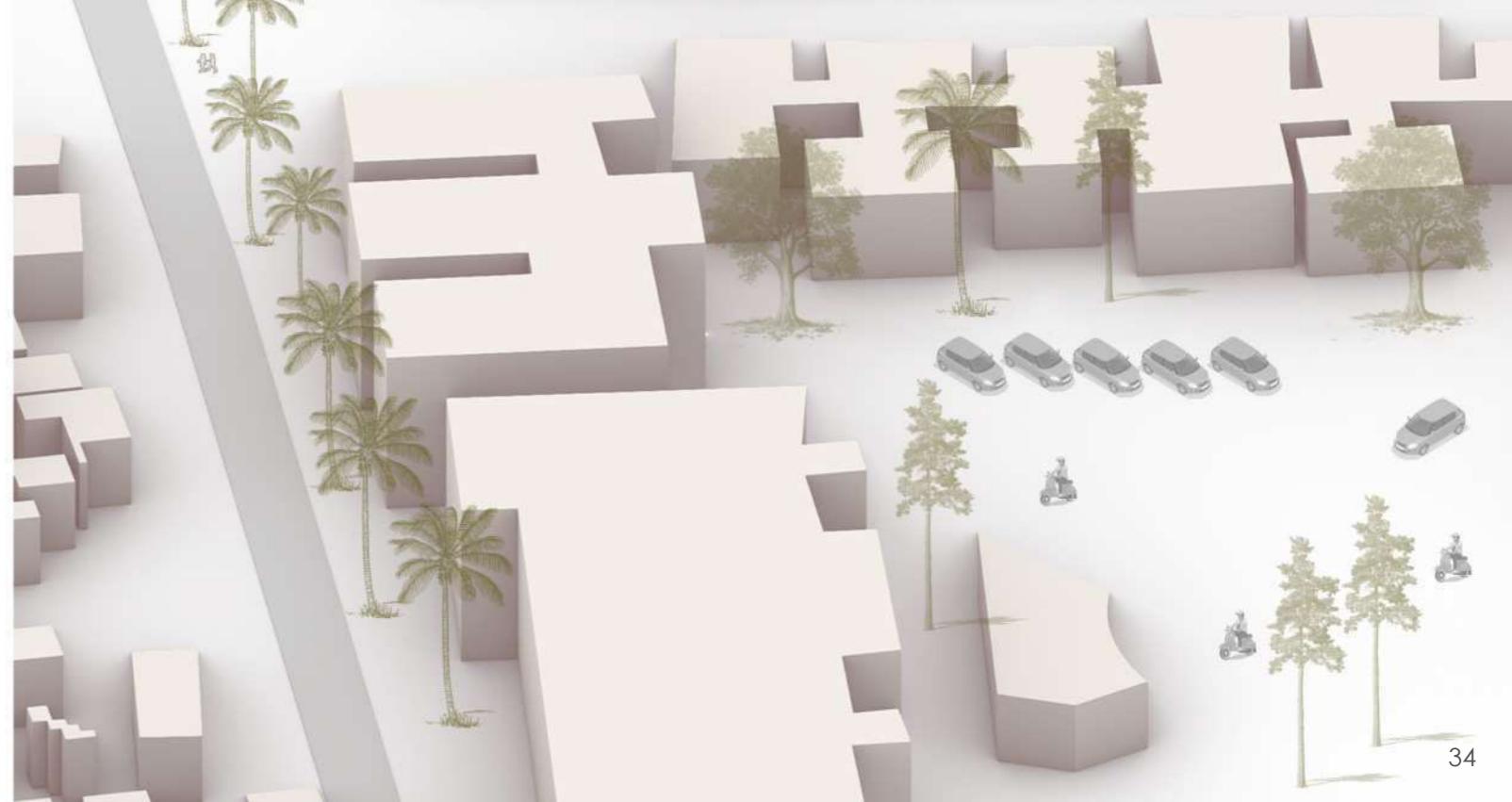
community hostel living

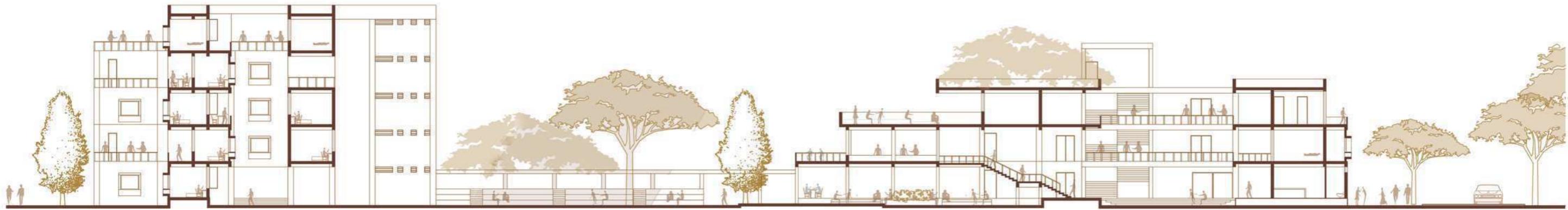
area : 20k sq.m | location : PCMC, Pune, India | type : academic

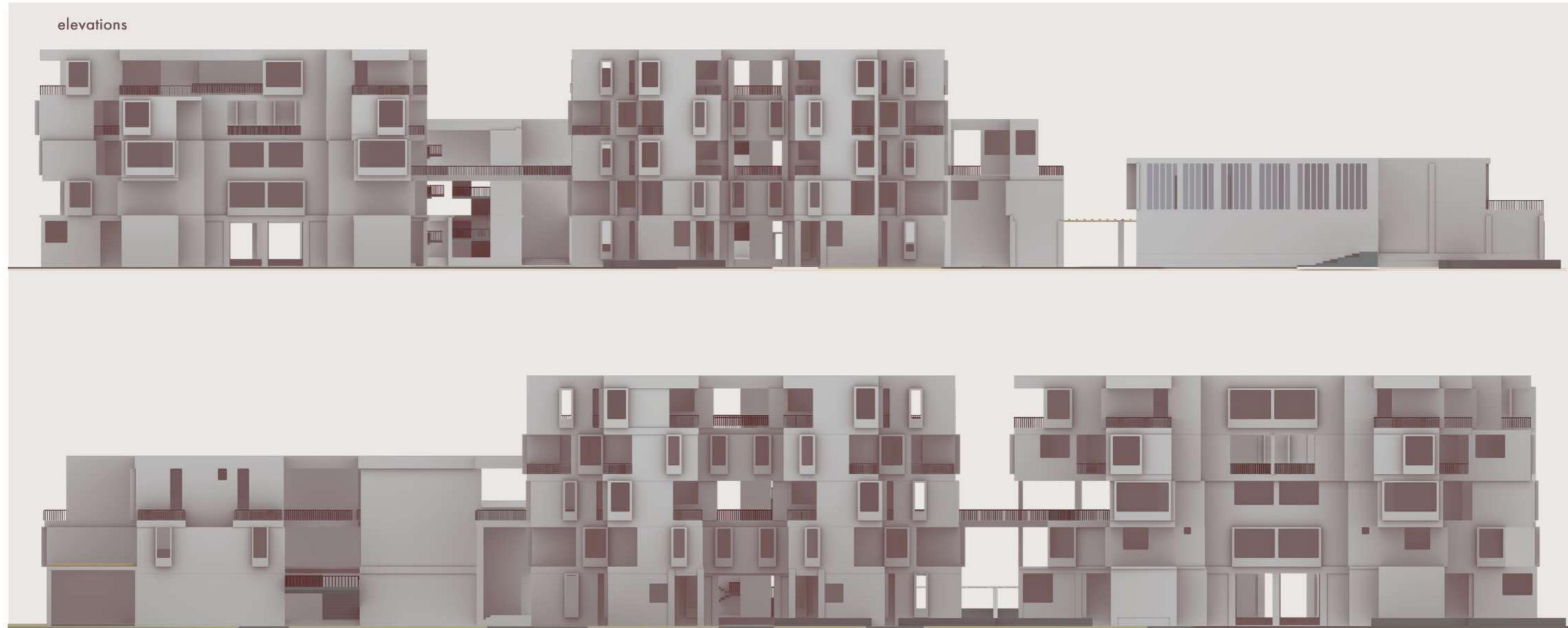
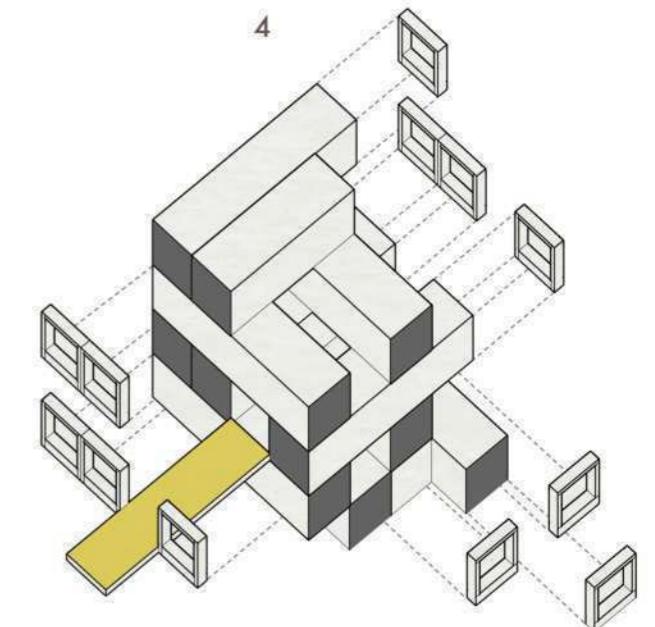
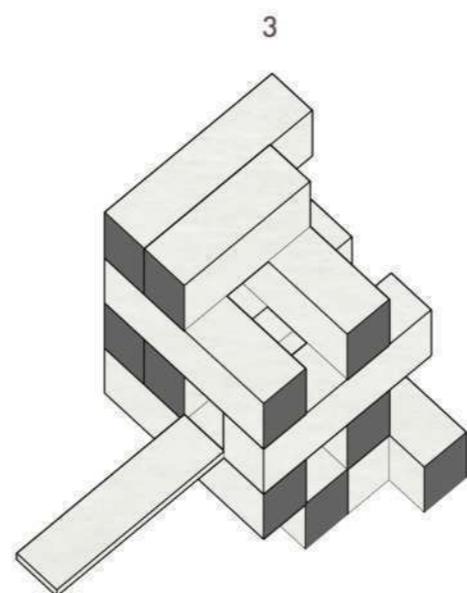
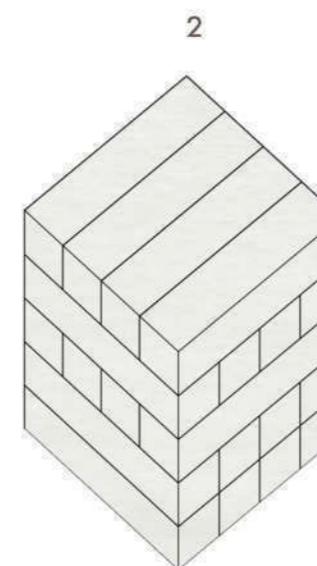
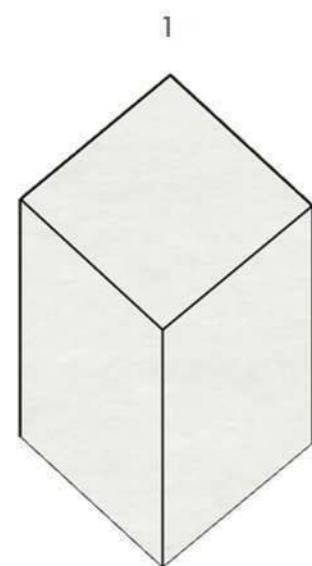
sem 6: indiv. design

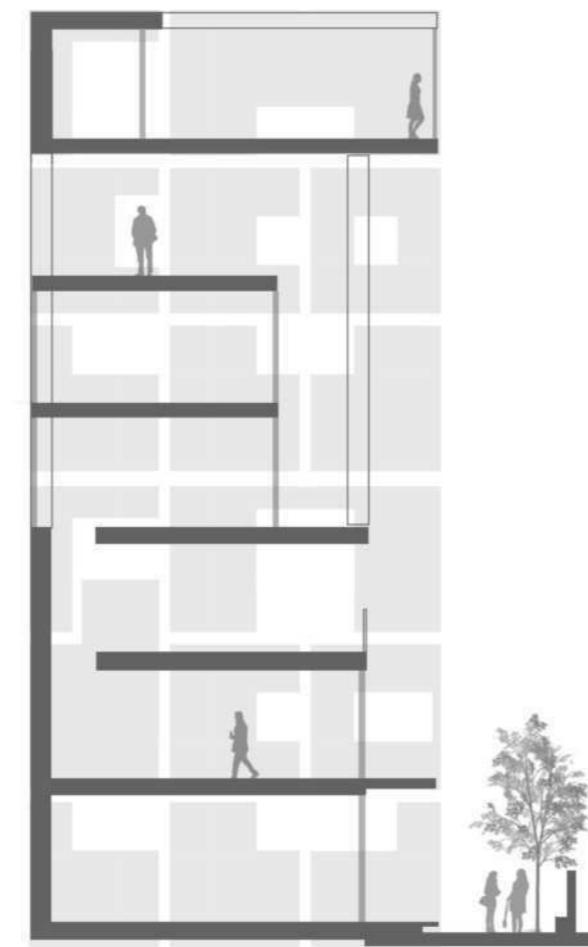
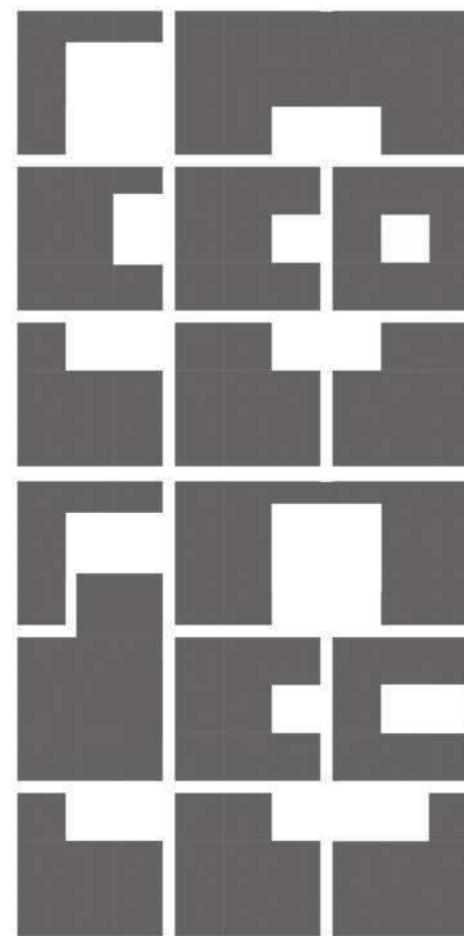
co live is an approach grasping on the idea of intergenerational living in PCMC, Pune. It offers a range of accommodations, including single-sharing, four-sharing, six-sharing rooms, and two-sharing units for married couples. The staggered floor arrangement creates terraces and varied visual planes, allowing interaction and enhancing the overall aesthetic. Box windows punctuate the facade, adding architectural interest and a sense of rhythm to the building's exterior.

The project also incorporates a cafeteria and a library, encouraging communal engagement and intellectual exchange. Extensive open areas provide ample room for outdoor activities, further nurturing a sense of community. This hostel goes beyond basic accommodation by offering a holistic environment that promotes interaction, learning, and leisure, while maintaining a balance between public and private spaces.

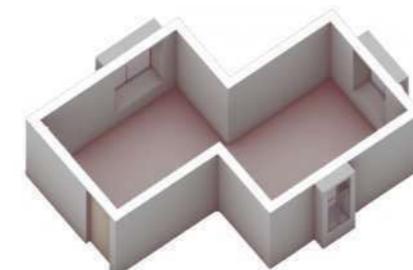




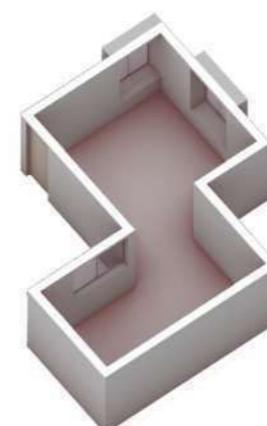




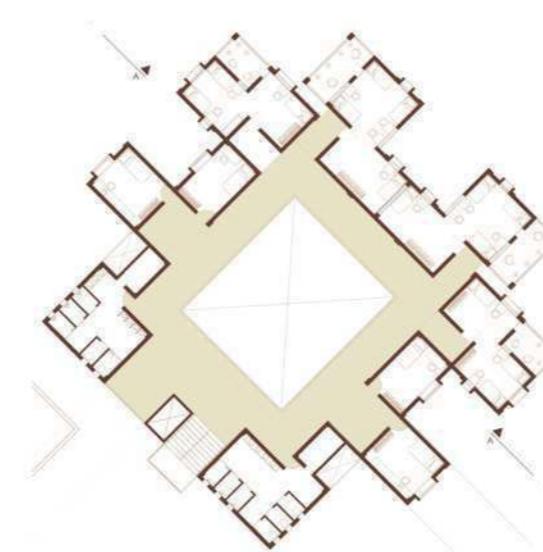
single sharing unit



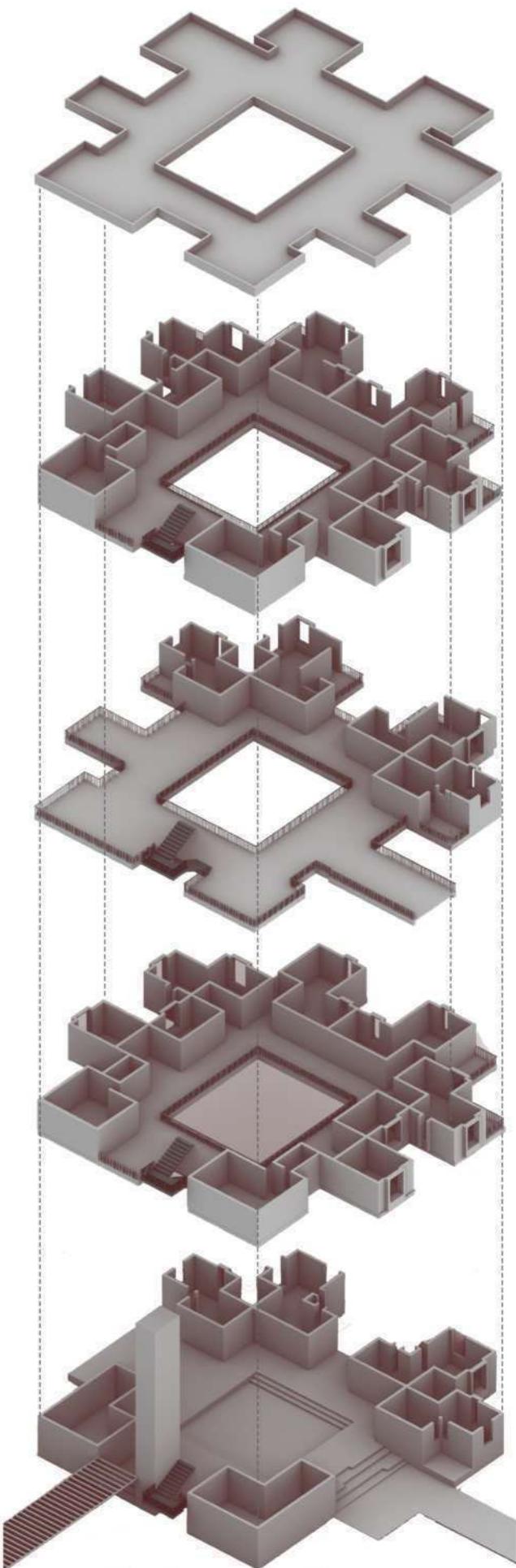
triple sharing unit

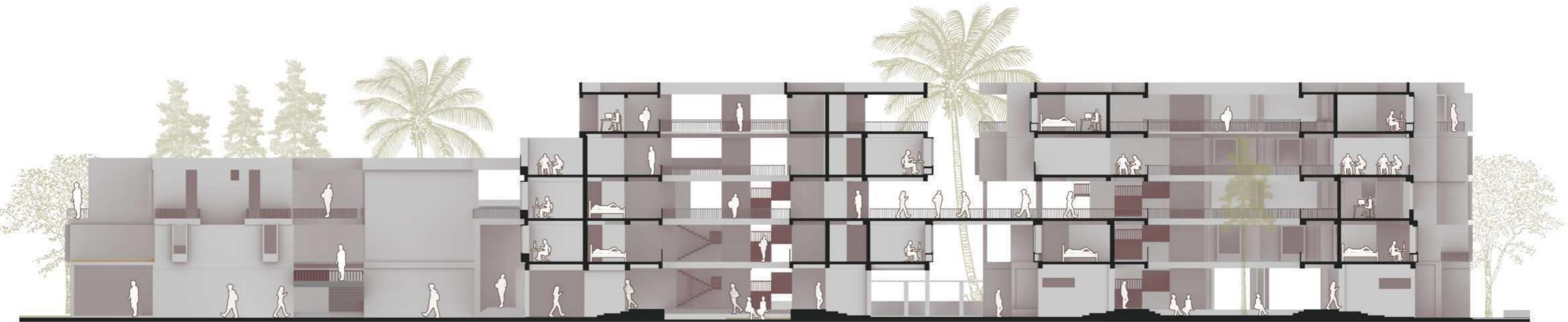


married couple unit



First and fourth floor





kaleidoscope

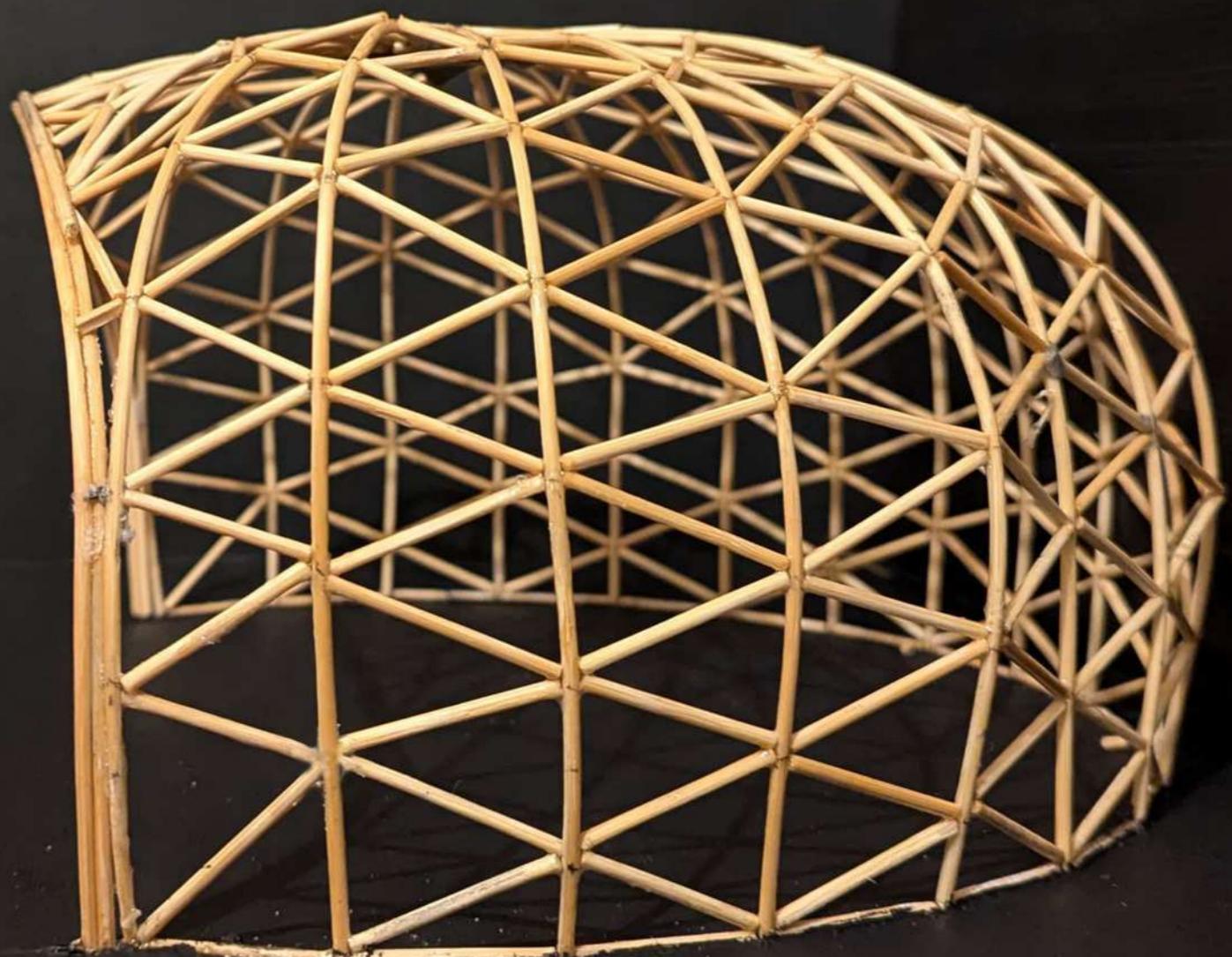
geodesic dome

area : 180 sq.m | location : Delhi, India | type : professional

contribution: design, drawings, model

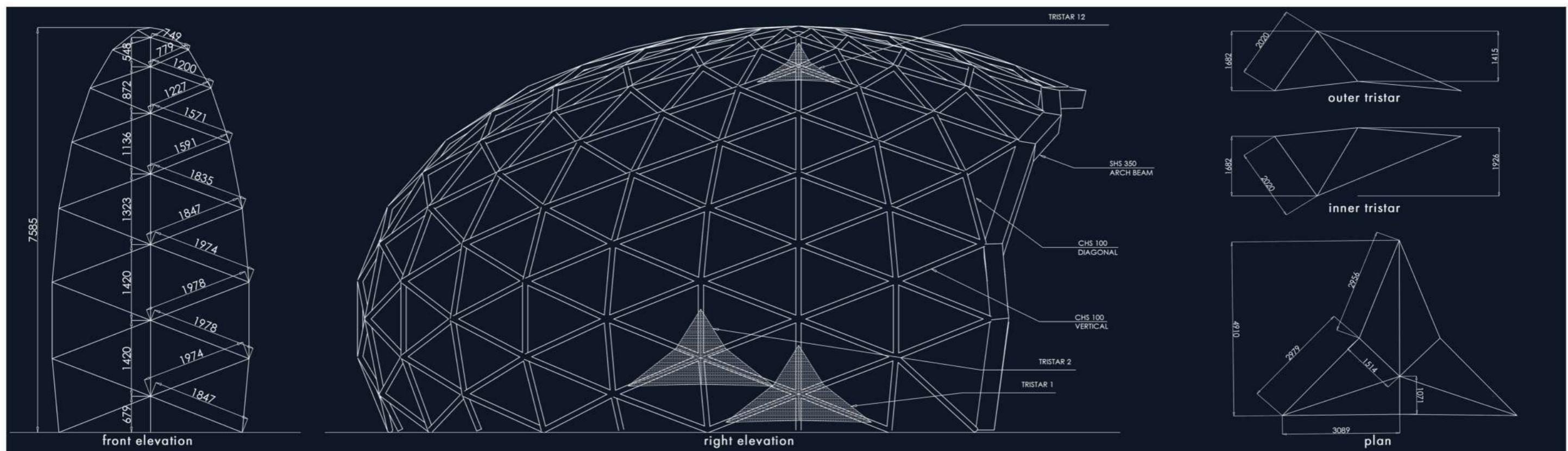
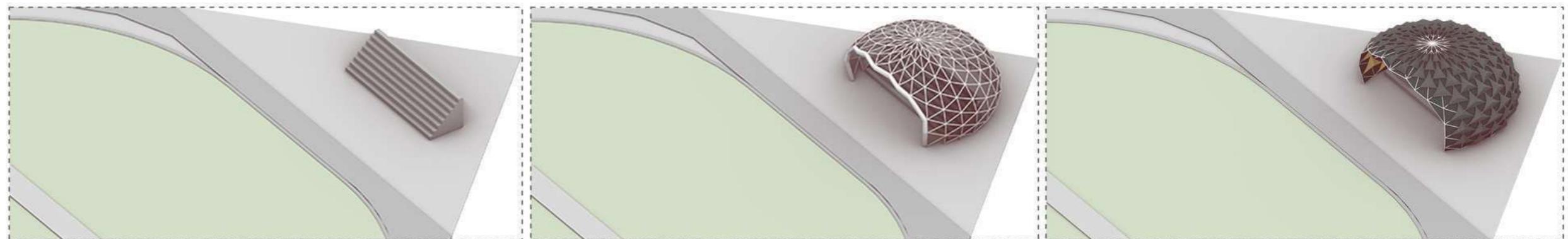
the geodesic dome serves as an elegant viewing pavilion within a sports gymkhana, overlooking a cricket ground. As per the client, the dome is an additional intervention for VIP crowd as a viewing pavilion. The dome accommodates up to fifty people, offering a modern, airy space for spectators. The dome's exterior and interior are adorned with trigonal pyramidal panels, which add visual complexity and enhance its dynamic, geometric form.

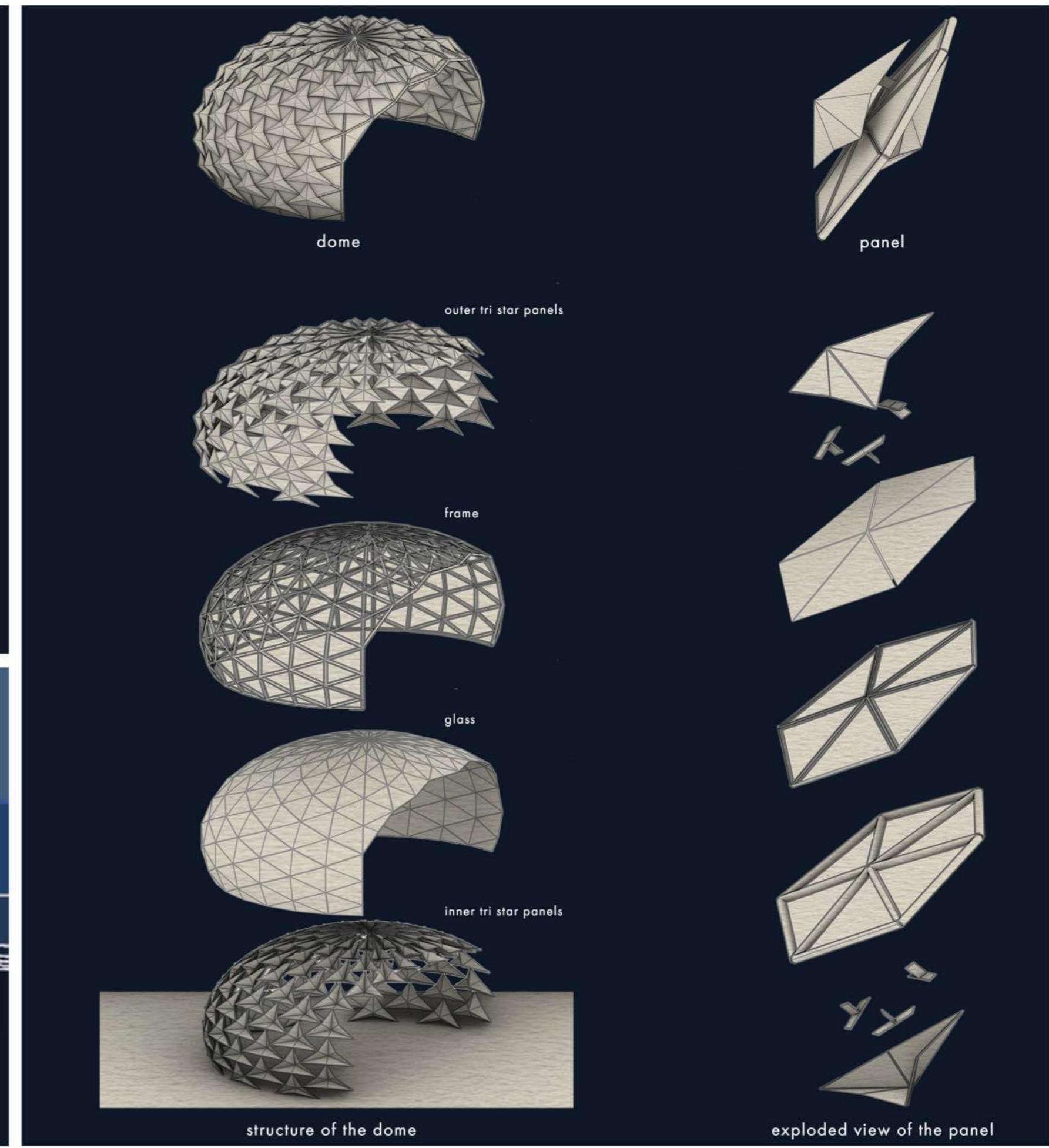
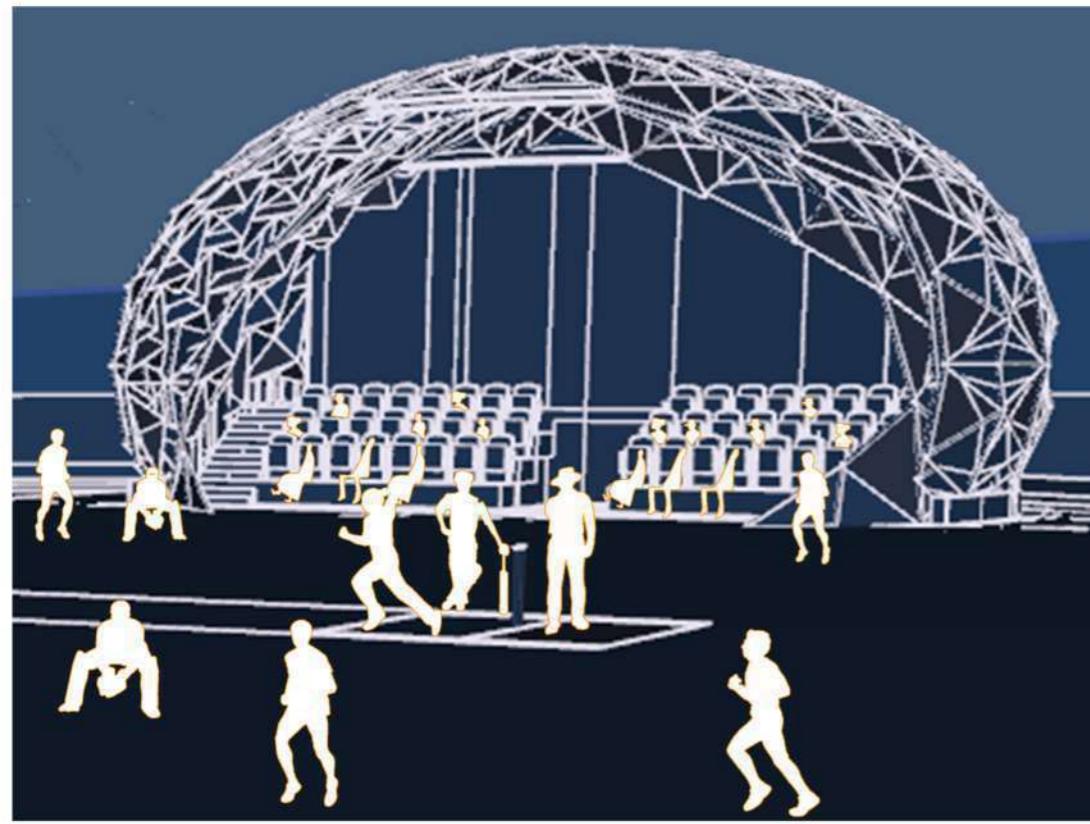
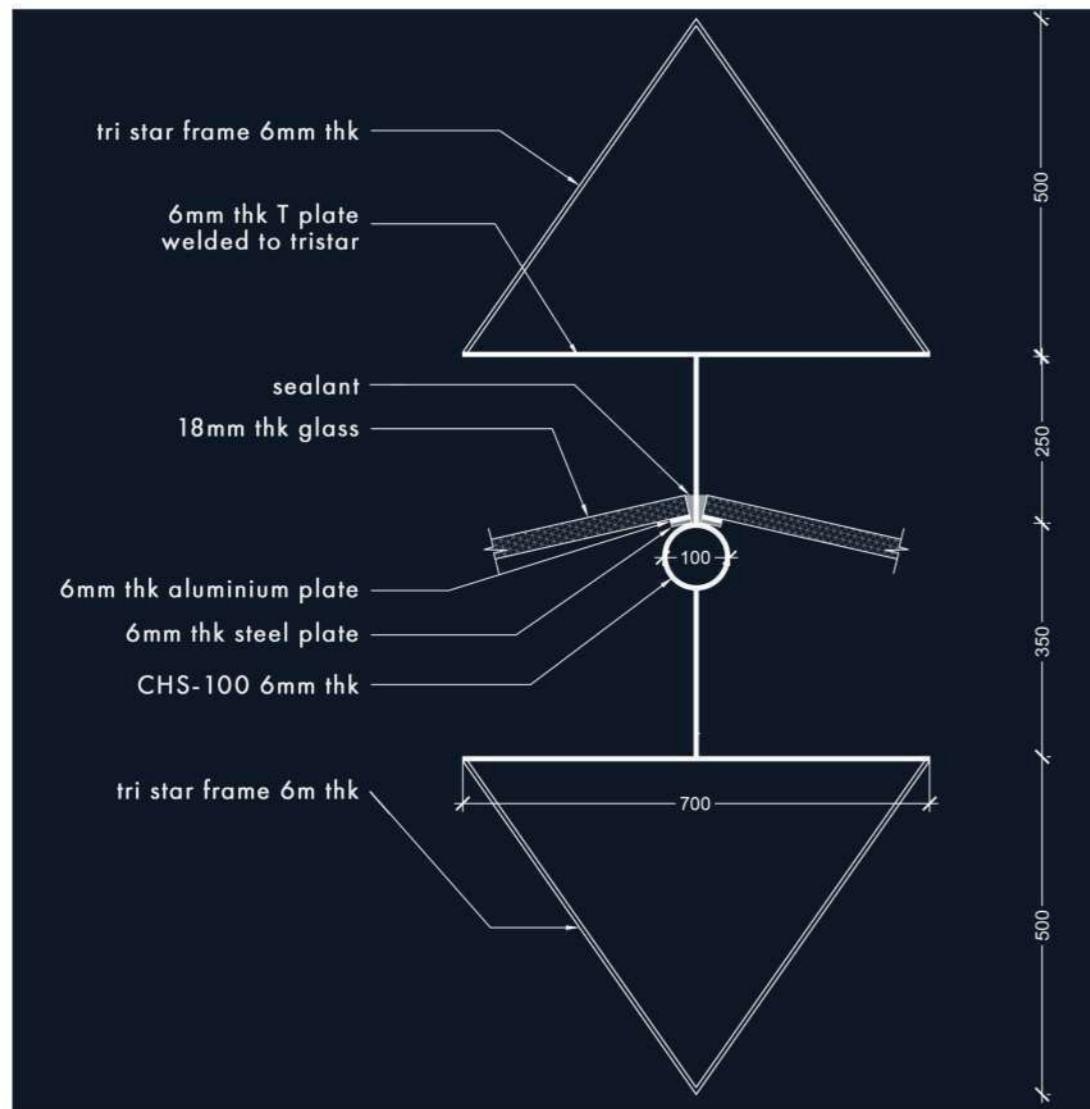
the dome spans 17 meters with a lightweight and an efficient form that minimizes use of material. The interplay of light and shadow through the triangular facets creates a captivating visual experience, making the pavilion a centerpiece of the sports facility. The dome provides an unobstructed view of the cricket field, making it a unique and efficient architectural element within the gymkhana's landscape.



requirement

a covered shell over the viewing arena for VIP members to spectate the cricket matches and other sports events





meraki

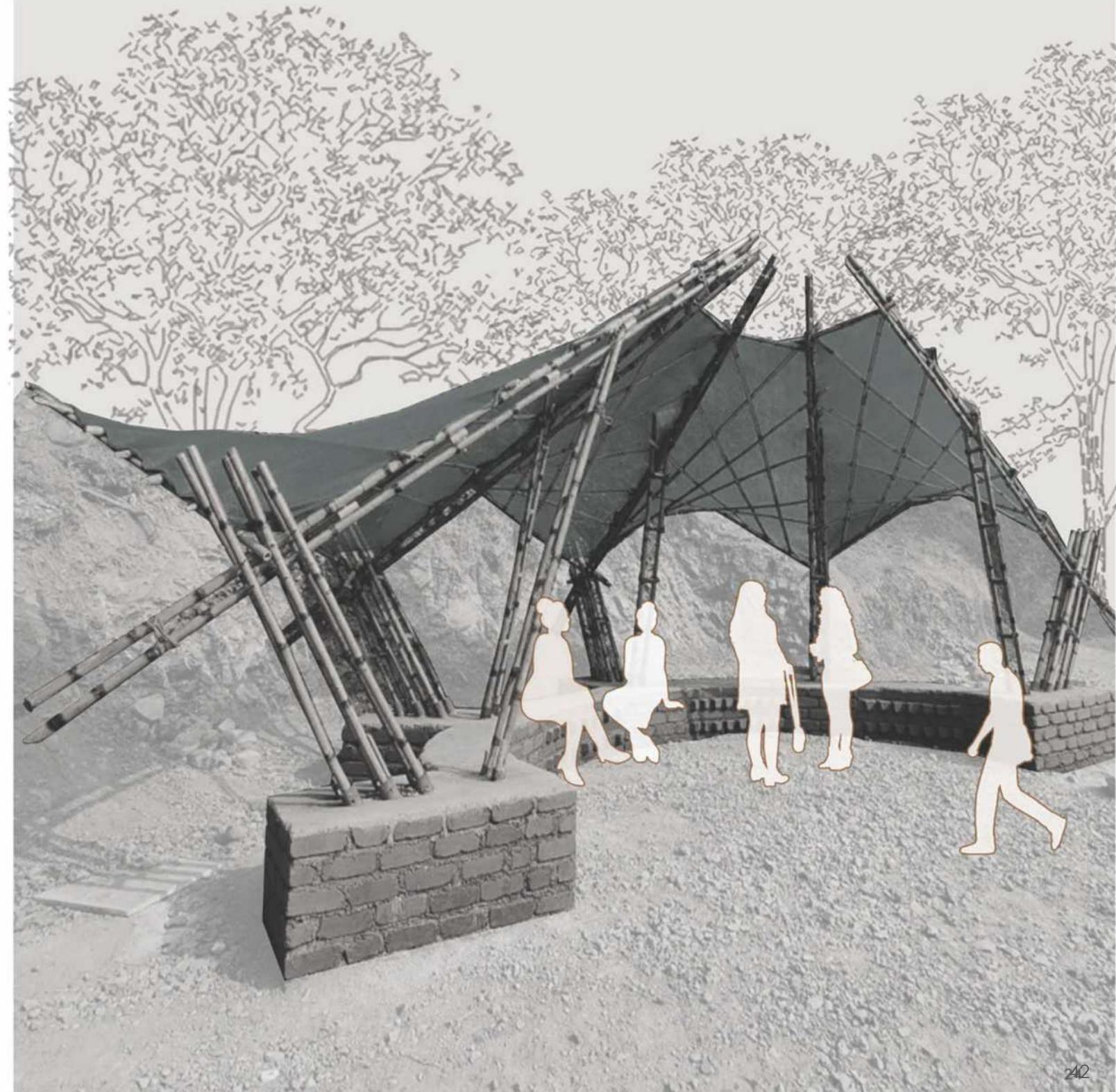
bamboo pavilion

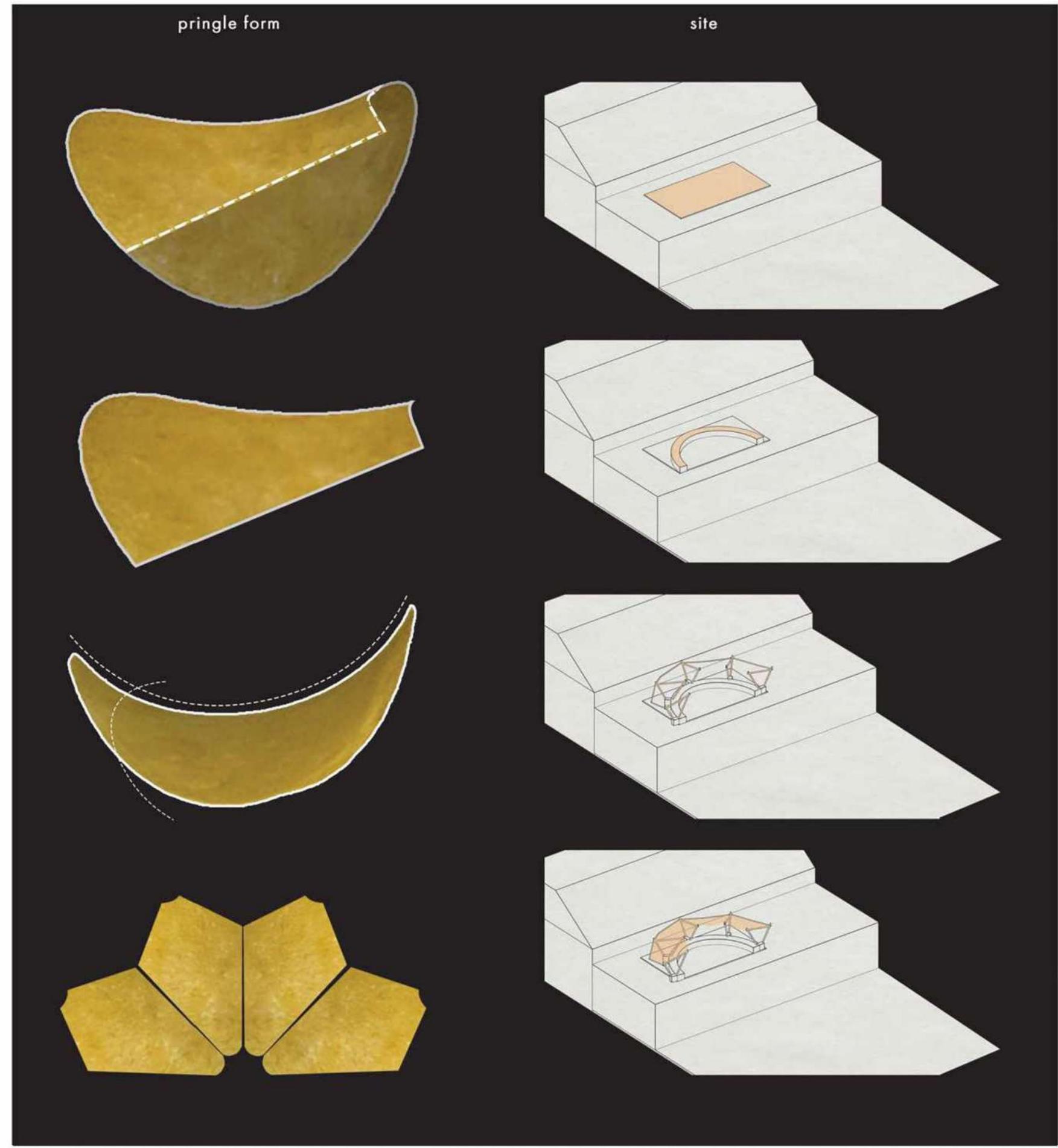
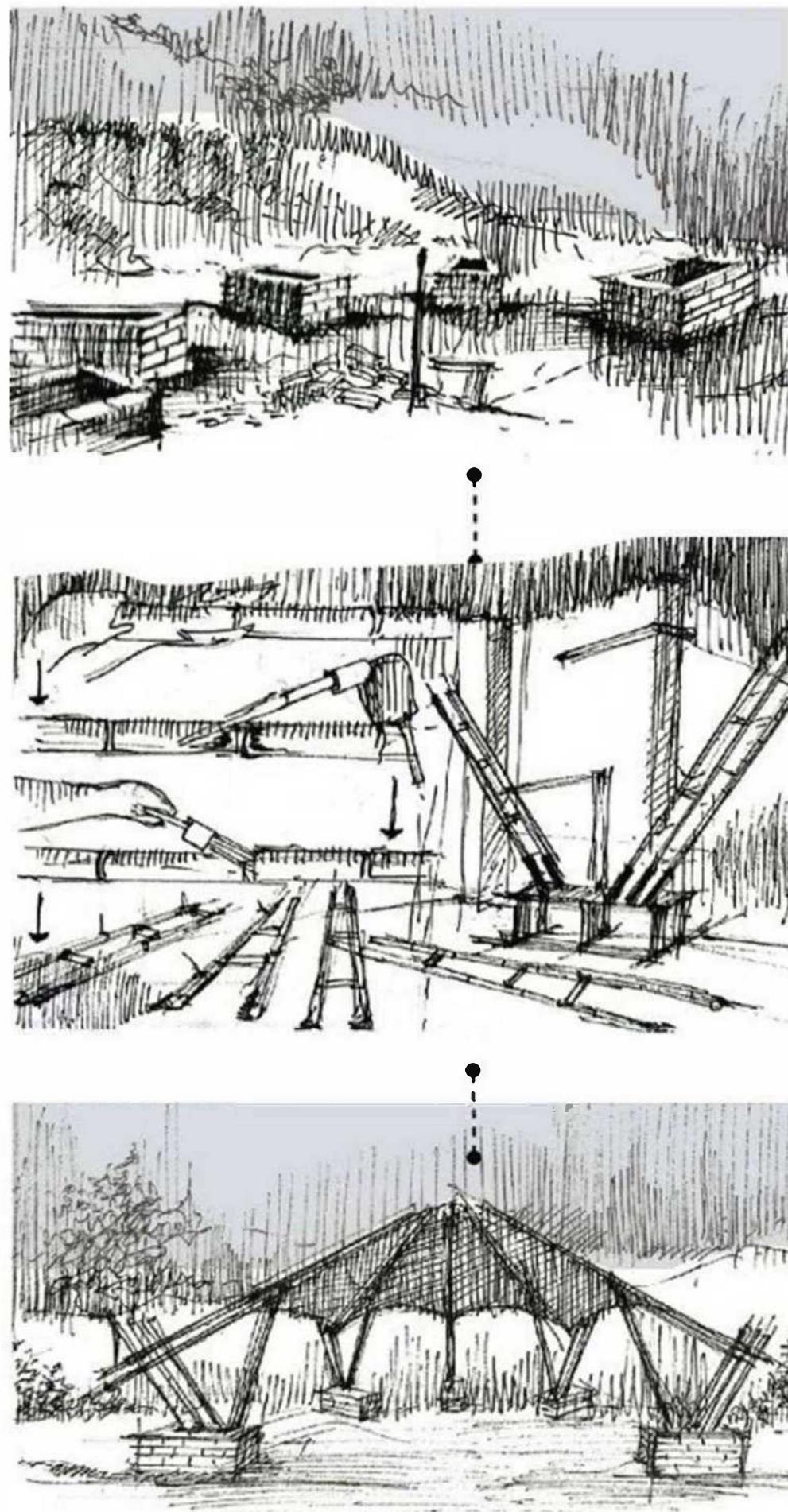
area : 100 sq.m | location : Pune, India | type : academic (group work)

sem 5: design and drawings

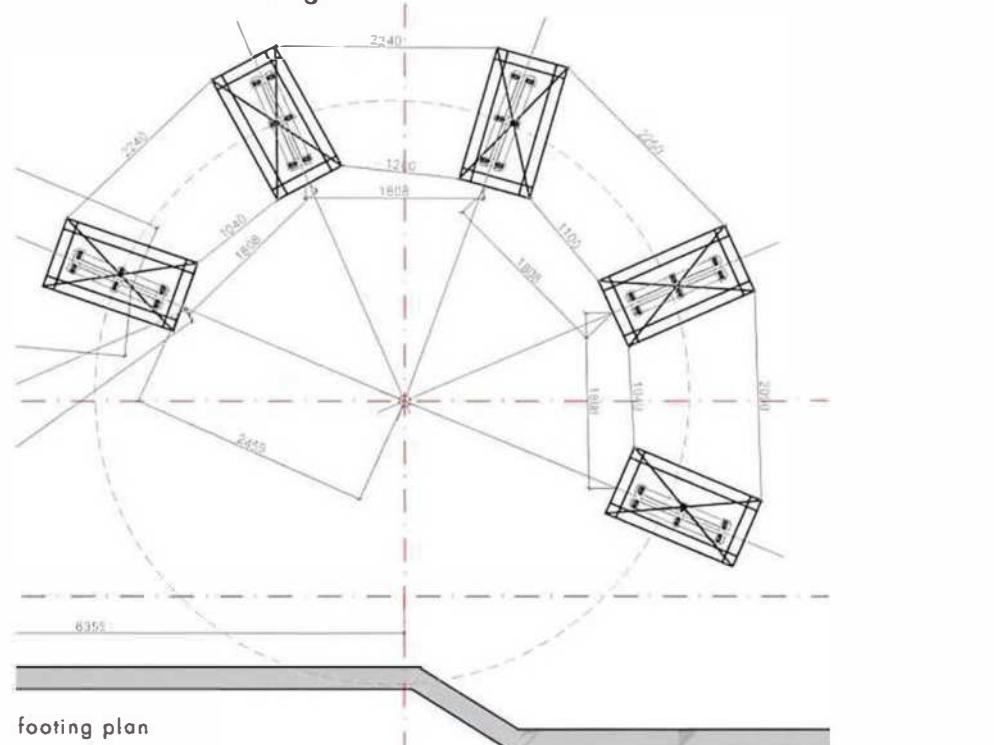
The bamboo pavilion, designed as part of a Meraki workshop, draws its inspiration from the distinctive curvature of a Pringle chip. A section of this iconic form is repeated four times, crafting a roof that resembles half a semicircle. This rhythmic repetition creates an elegant canopy that provides natural shade to a semicircular seating area beneath. The use of bamboo as the primary material speaks to sustainability and adaptability, blending seamlessly with the environment while ensuring structural resilience.

As part of the design and structure team, the collaboration among 20 students emphasizes innovation, craftsmanship, and attention to form. This project not only showcases the versatility of bamboo but also highlights the inspiration of the form that the roof can evolve into using a simple understanding of forces.

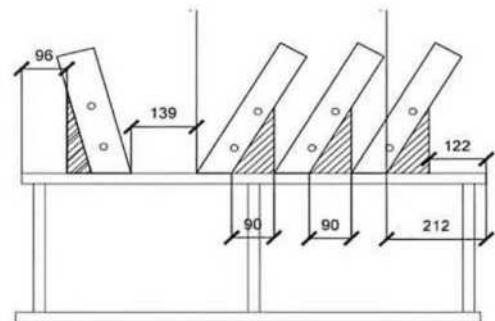




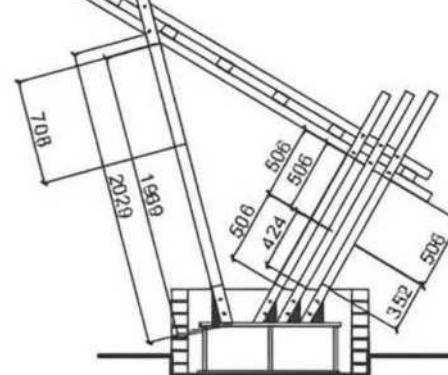
construction drawings



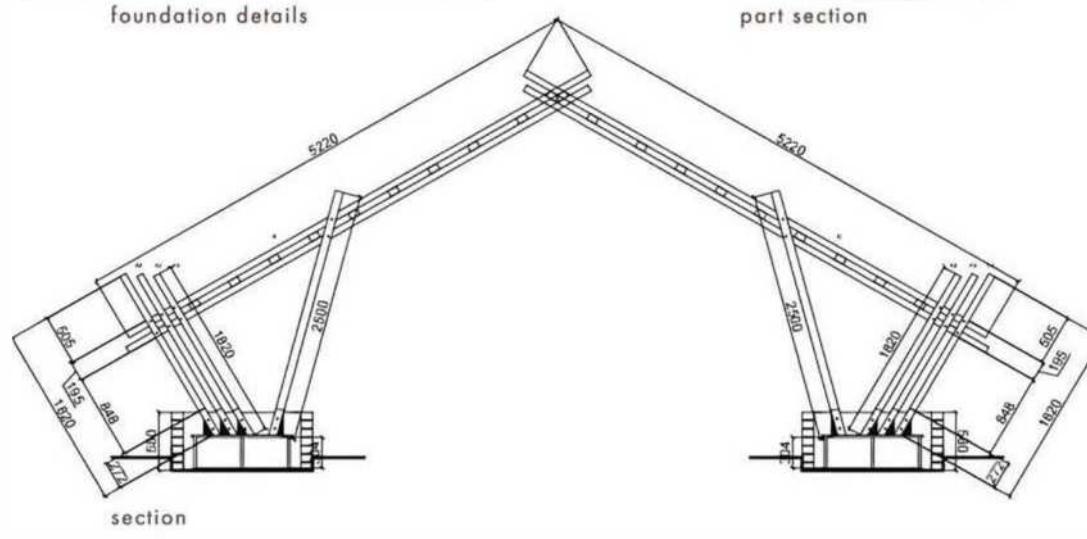
footing plan



foundation details



part section



section



hands on

arches, vaults, domes

location : Auroville, India | type : non academic workshop

the AVD course covered the structural design and construction of vaulted earthen masonry. It offered an in-depth understanding of various methods of stability analysis for arches, vaults and domes following the principles of Limit Analysis of Masonry. It is one of the courses which combine structural design of AVD with integrated principles of construction. The course focused on the use of Compressed Stabilised Earth Block (CSEB) as a building material and vault construction methods developed by AVEL even professing on long free spanning structures.

the course intensified on the stability and neutralization study of a given arch specified with the applicable brick size and specifications. Following the calculations, a hands-on masonry in which we studied constructive principles and techniques, and build various types and scales of arches, vaults and domes.

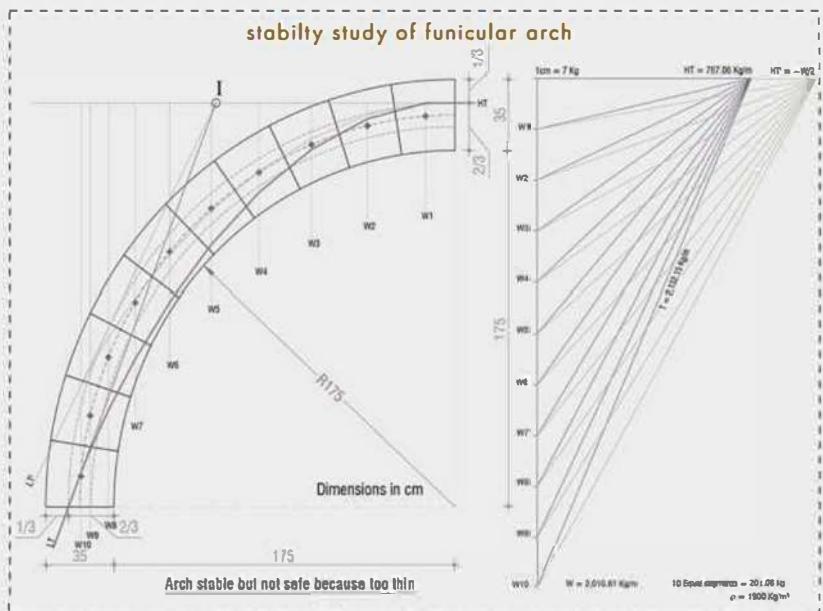


understanding masonry of arches, vaults and domes

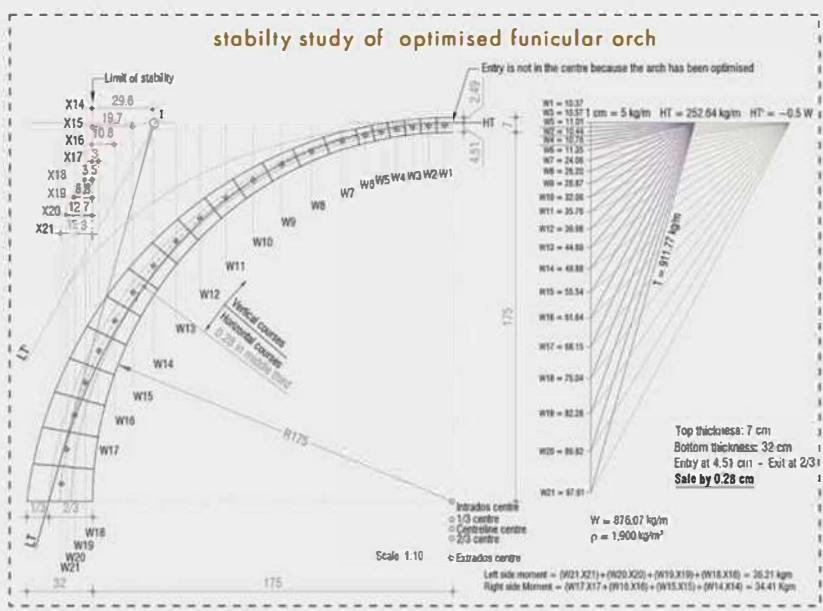
the structural design of vaulted masonry along with integrated principles of construction, and includes hands-on sessions on the construction of arches, vaults and domes. It focuses on the use of compressed stabilised earth block (CSEB) as a building material and vault construction methods developed by AVEI -construction principles for building arches vaults and domes, building various arches with centring, building various vaults without centring (learning basics), building various vaults without centring (creative work), building various domes without centring ,masonry pattern for on optimised arch, construction principles, building techniques, binder quality.



arch



vault



dome

good for construction drawings

professional work | reference working drawings

