

# ECOPATCH COMMUNITY CENTRE



## Narrative

*ECOPATCH Community Centre is a creative and recreational hub nestled within the greenery of Taman Wawasan Recreational Park. The three-story structure aims to reconnect urban dwellers with nature through nature-based activities, such as gardening, cooking, and education. Serving a broad and diverse community—from children and families to elders and local hobbyists—the space fosters indiscriminate learning and ecological awareness. More than just a building, it is a living system where architecture, nature, and community grow together.*

## Design intention

*The design of the community centre aspires to cultivate a meaningful relationship between people, nature, and place by integrating gardening, food, and shared experiences into a cohesive architectural language. Rooted in the themes of growth, interaction, and sustainability, the building is conceived not only as a space for activity but as an ecosystem of connection, where architecture and environment are intertwined. A key intention is to integrate a public pathway as part of the architecture, allowing the surrounding park to flow seamlessly through the structure. This pathway invites both visitors and locals to move freely through the building, encouraging spontaneous engagement with its diverse programs. The existing greenhouse and adjacent mini garden are seen as an extension to the building as they serve as catalysts for the centre's core functions: learning, growing, cooking, and sharing.*

## Design concept

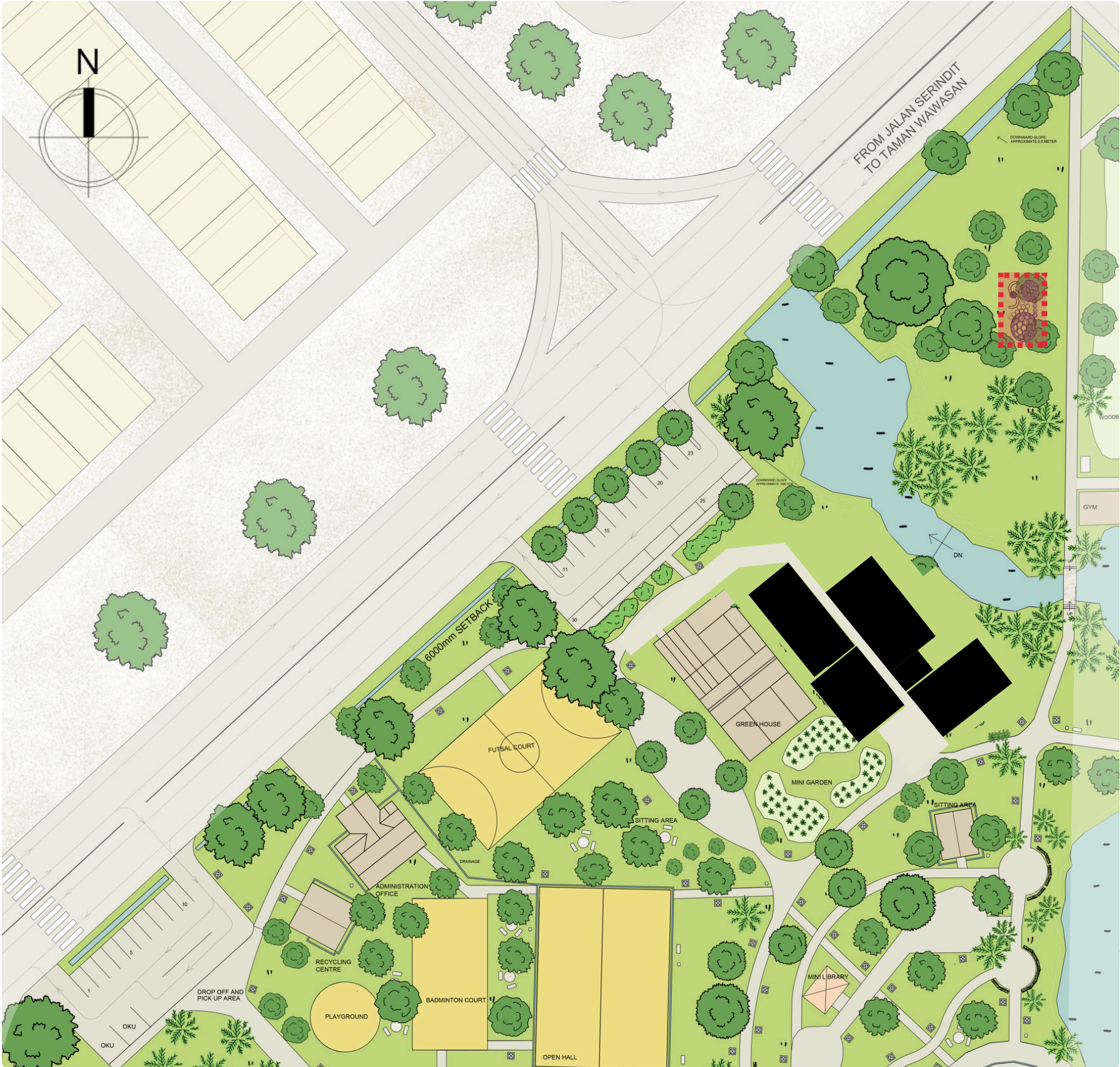
*Inspired by the structure of a forest, “Canopy and Roots” organizes the building vertically and thematically. The roots represent the connection to the ground, symbolizing the community, engagements. The canopy symbolizes openness, lightness, and collective elevation. This is a space for pause and reflection. The building's vertical spatial organisation is based on this concept, creating layers of shelter that define hierarchy across public and private and transitional zones*

## Program

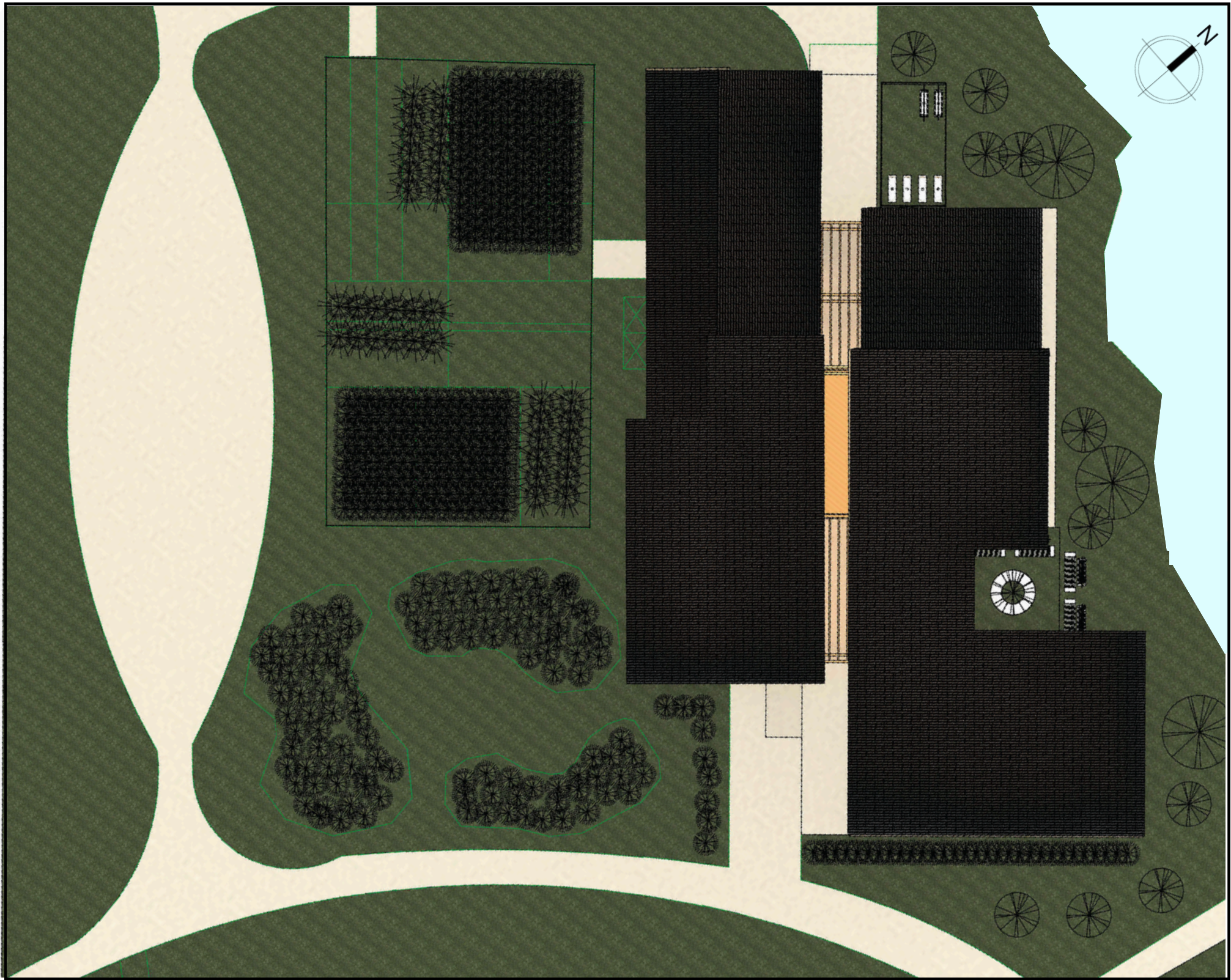
*The farm-to-table program is designed as a hands-on, cyclical journey that brings people of all ages into direct contact with nature, food, and one another. Users can engage in communal gardening, which fosters a sense of responsibility, patience, and shared purpose. As produce matures, users can harvest and clean what they've grown, reinforcing the value of effort and sustainability.*

*These ingredients then become the focus of group cooking sessions and food preservation workshops, where children, adults, and elders learn from each other, sharing traditional recipes, nutrition tips, and food heritage. This informal, indiscriminate learning environment builds skills, bridges generations, and nurtures a deeper appreciation for what we eat. .*

*Meals are shared in communal settings, creating opportunities for storytelling, cultural exchange, and social bonding. Leftover scraps and garden waste are returned to the compost system, teaching ecological responsibility and closing the loop. Through this ongoing process, the program encourages healthy living, community resilience, and environmental awareness, making food not just a necessity, but a tool for connection, education, and renewal.*



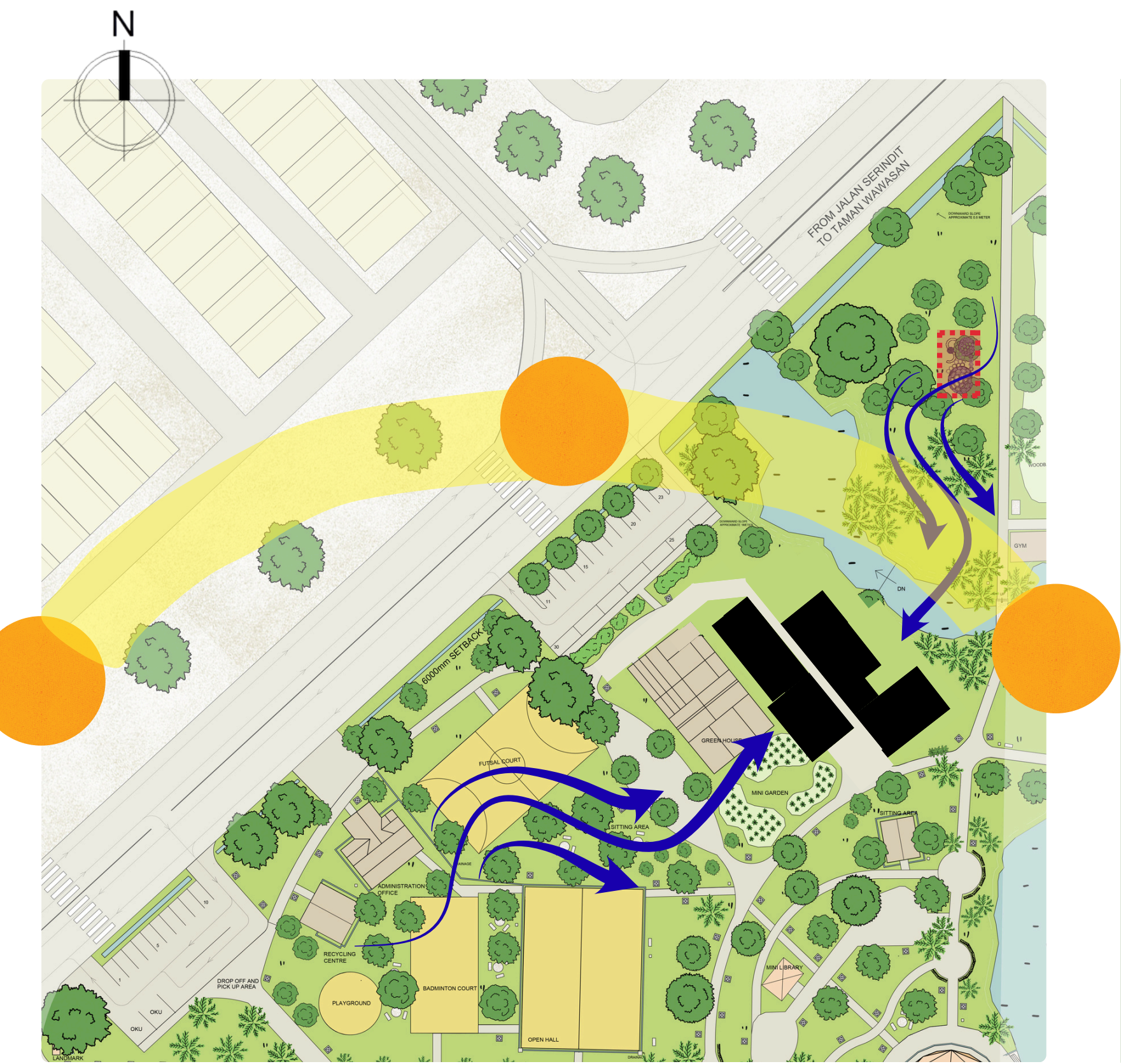
SITE PLAN (NTS)



ROOF PLAN 1:250



# DIAGRAMS

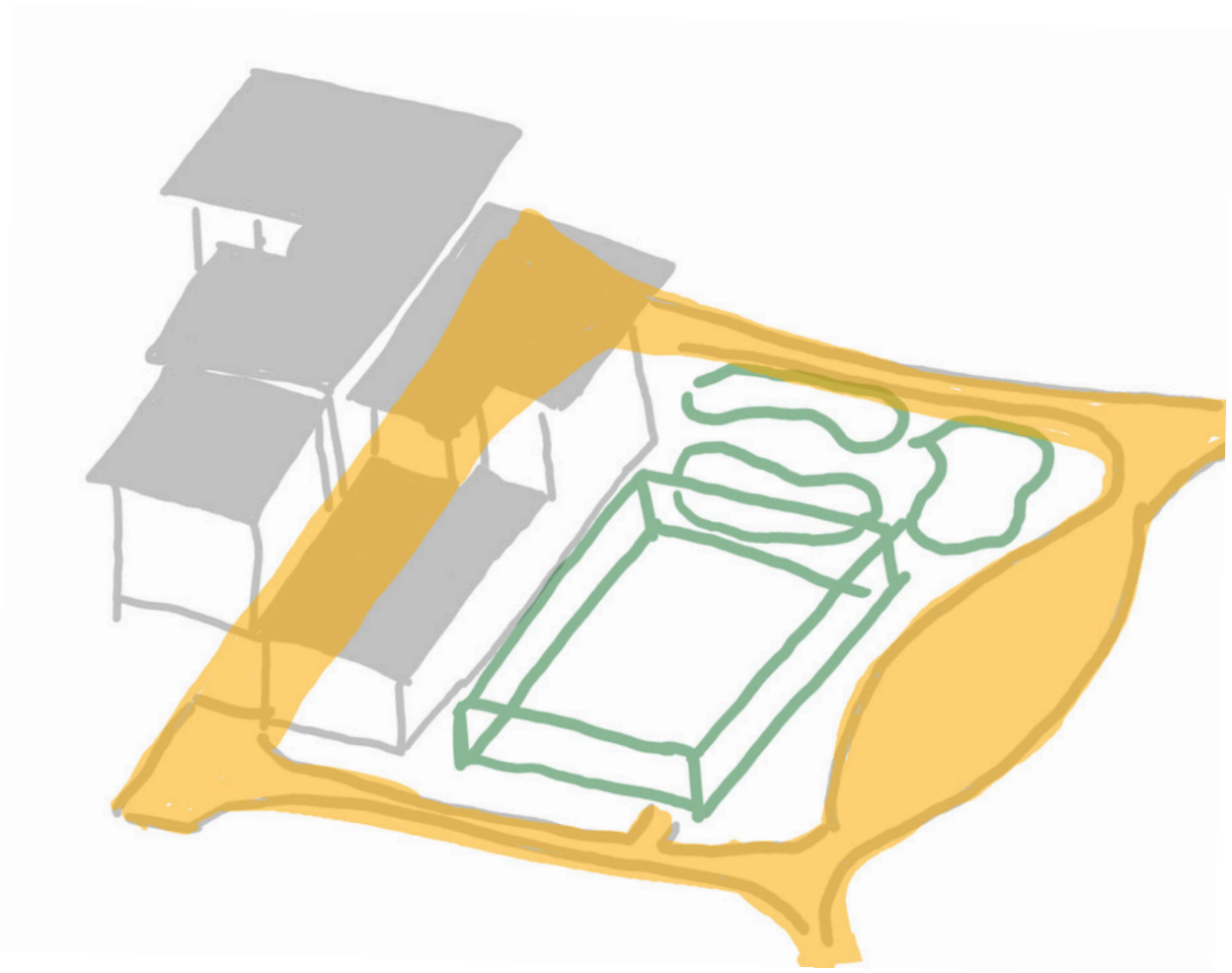


## SUN PATH

The building is oriented to optimize daylight exposure while providing self-shading throughout the day — allowing interior spaces to benefit from natural light without overheating, and casting shade onto adjacent outdoor areas for comfort.

## WIND DIRECTION

The building's facades are oriented toward the northeast and southwest, aligning with the prevailing wind directions of the Northeast and Southwest Monsoons. This orientation allows for effective cross-ventilation throughout the year, as natural wind flow enters from one side and exits through the other, reducing reliance on mechanical cooling and enhancing indoor air quality



## CIRCULATION

The public pathway running alongside the site is used as a key circulation axis, guiding pedestrian flow through the building and enhancing site accessibility.

## EXISTING STRUCTURES

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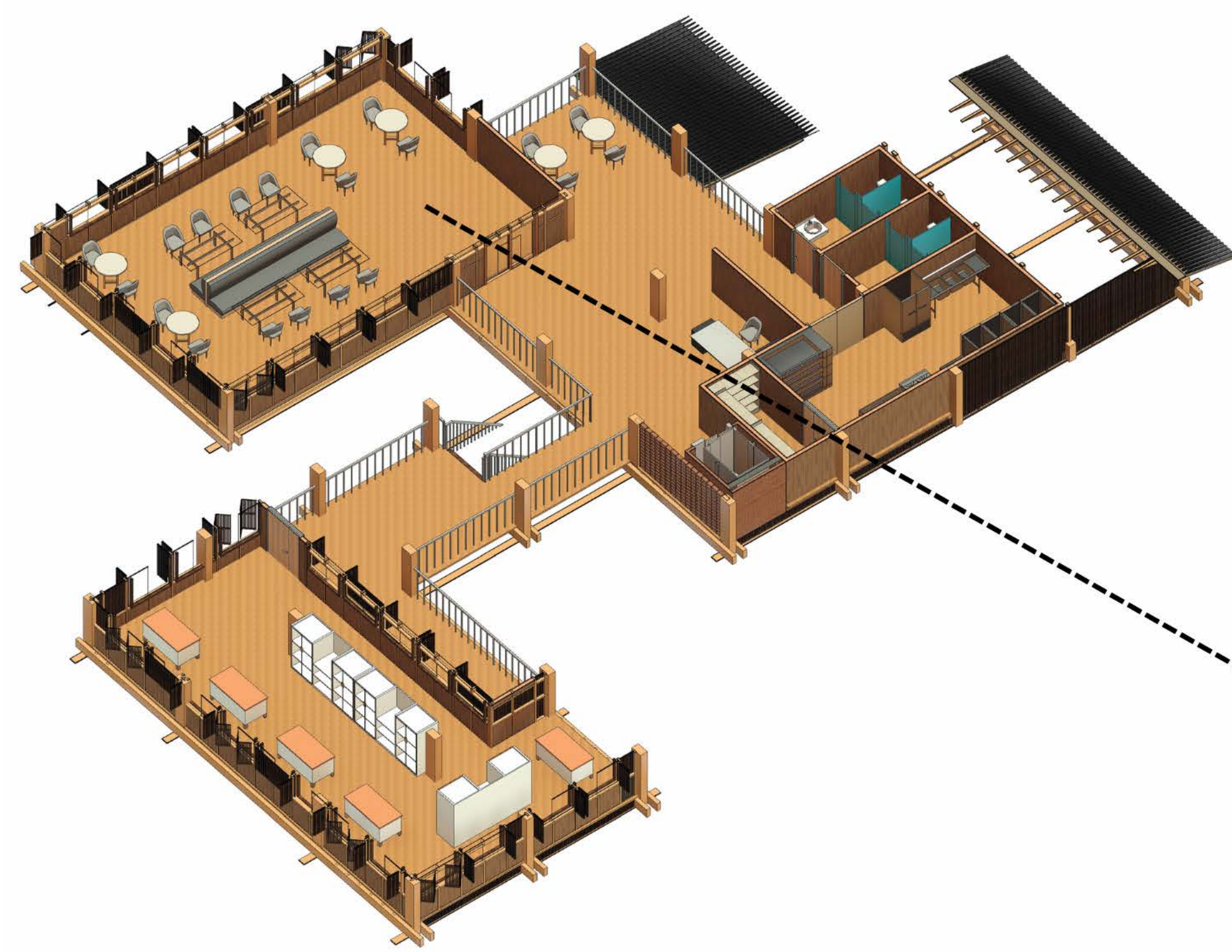
# PERSPECTIVES





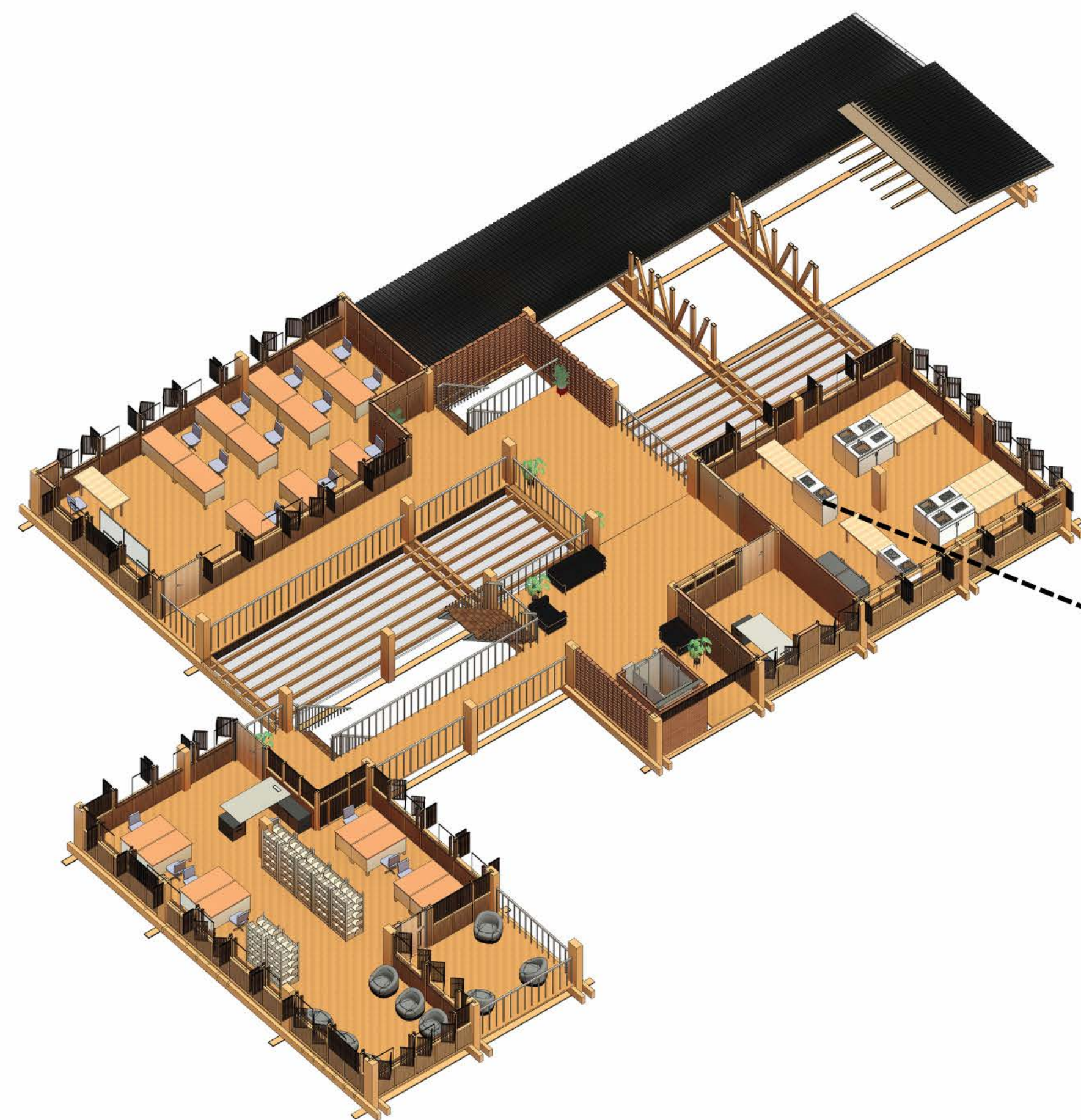






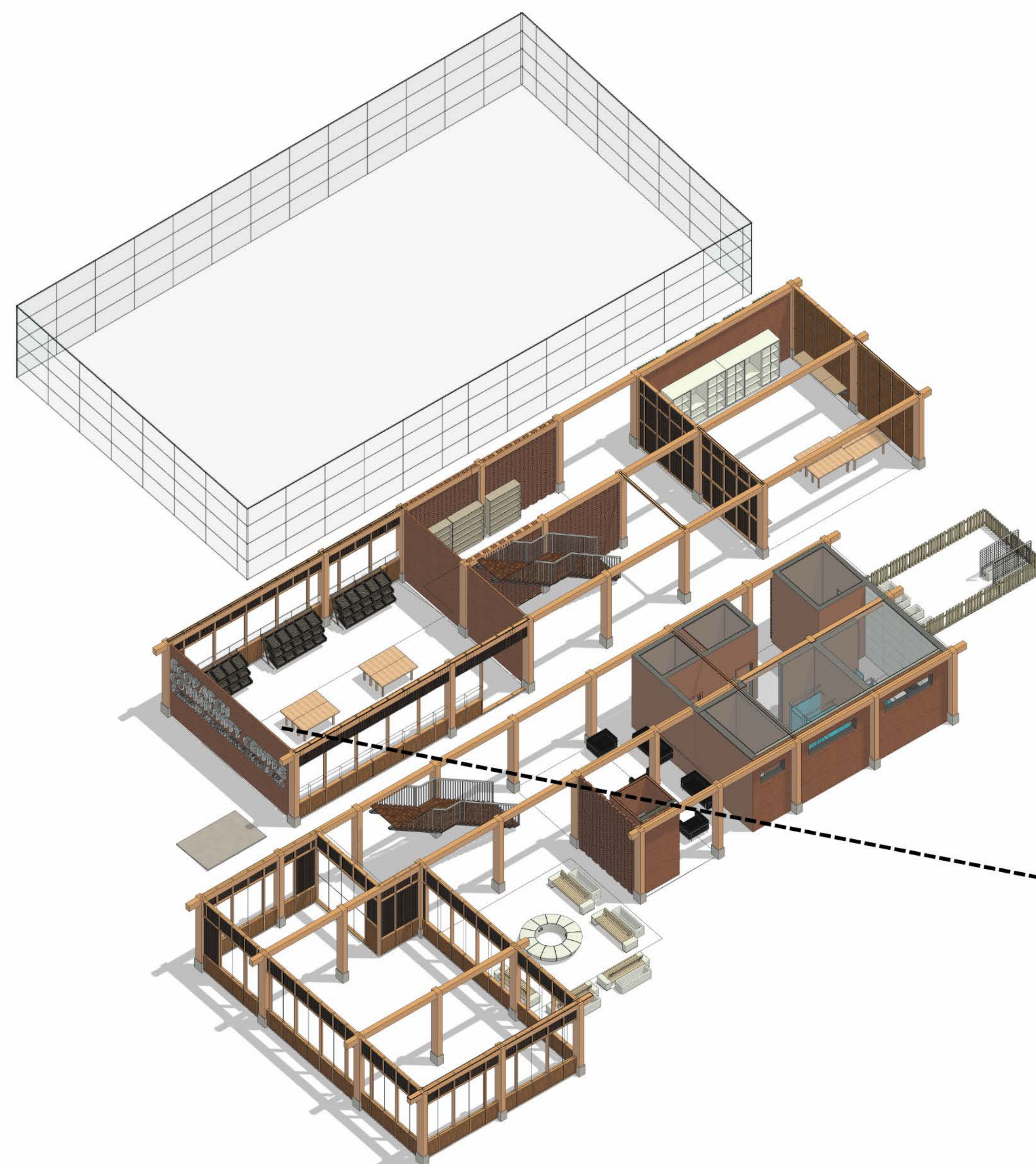
## CANOPY LAYER

The canopy layer defines the spatial character of the building, offering shelter, filtered daylight, and visual openness. It frames key communal zones like gathering areas and transitional spaces, guiding users through light, shadow, and rhythm throughout the day.



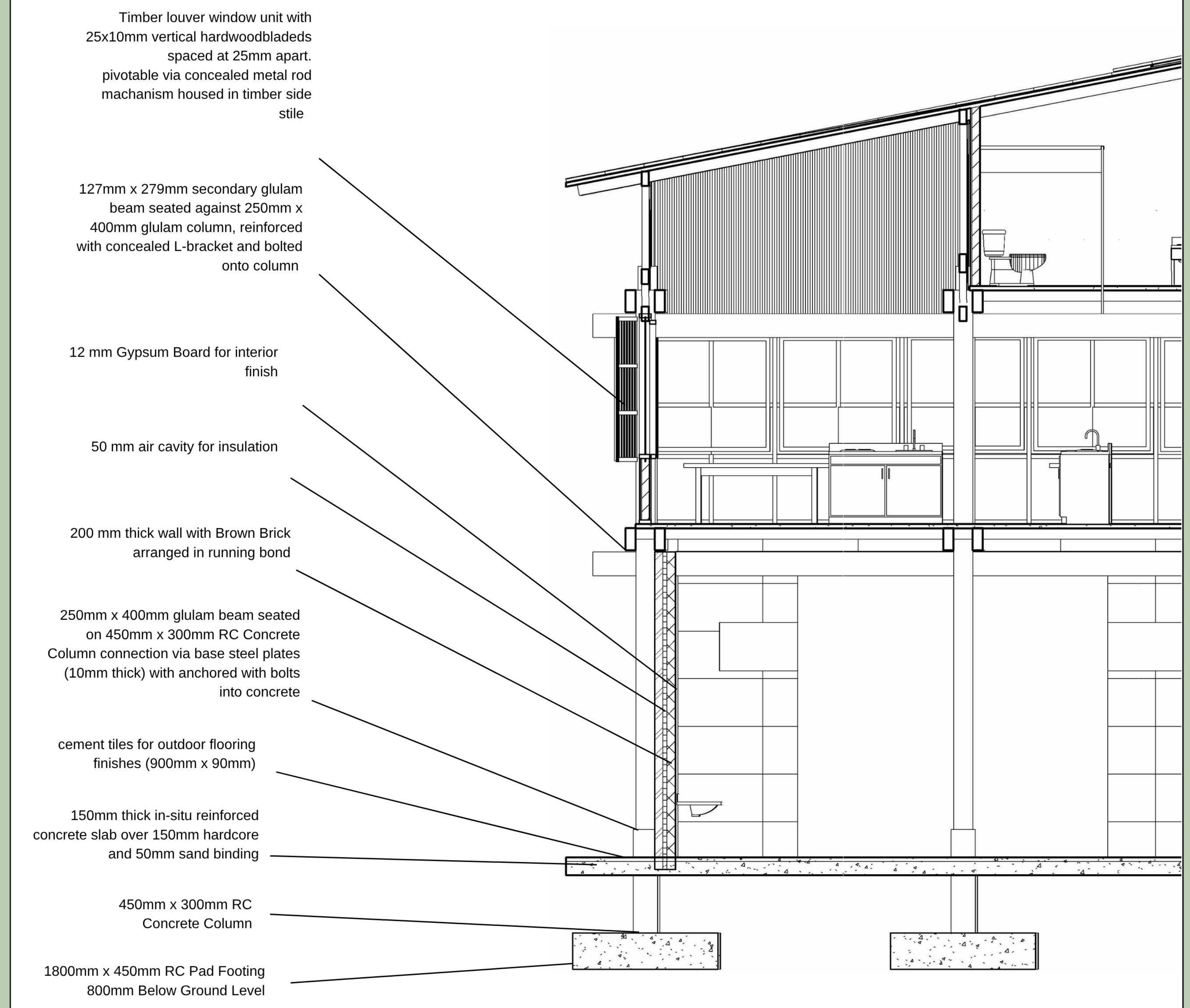
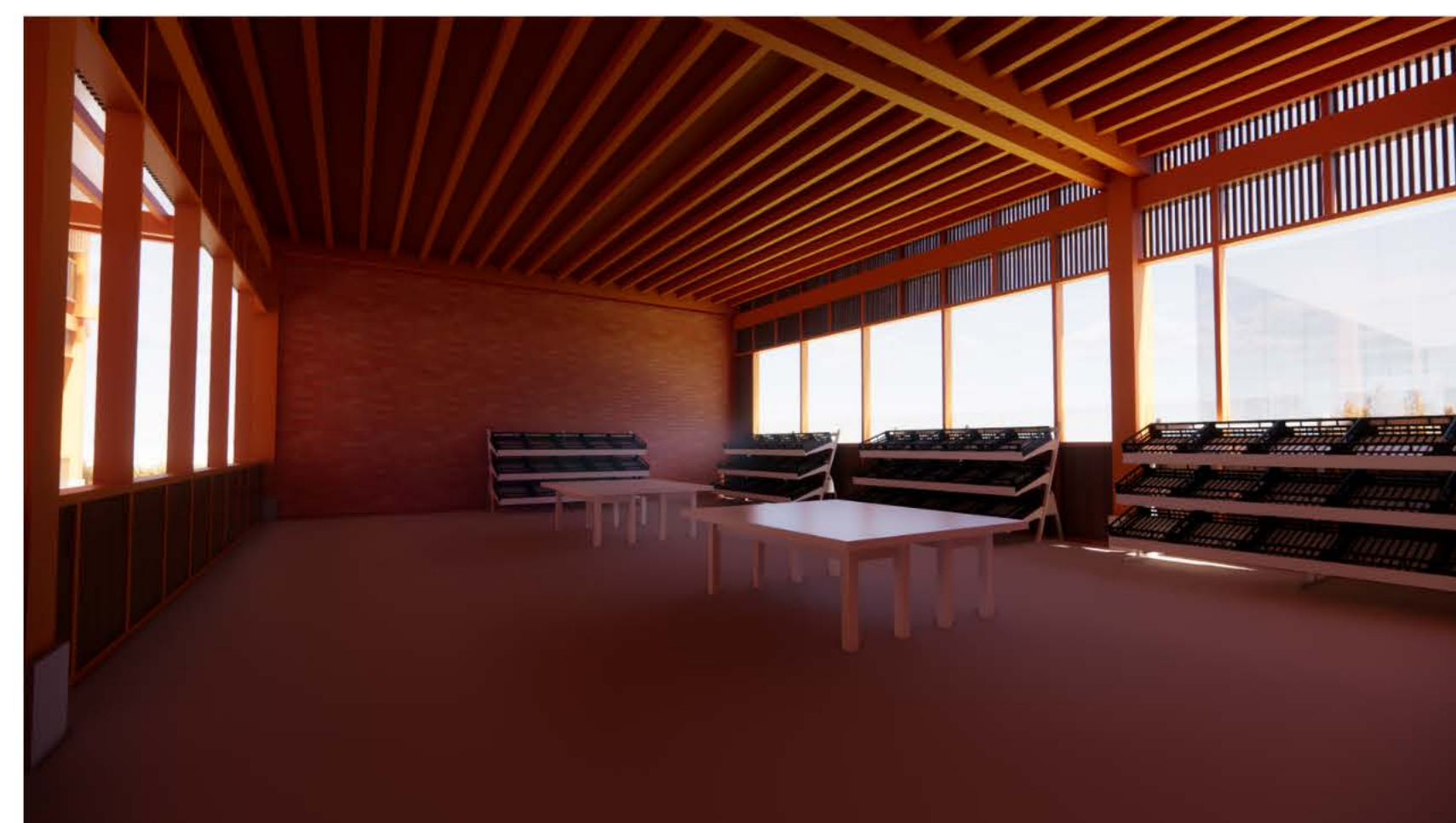
## TRUNK

The trunk layer contains structural elements and vertical circulation, acting as the spine that connects spaces across levels. It supports movement between public and private areas, anchoring activities such as workshops, wellness rooms, and informal interactions.

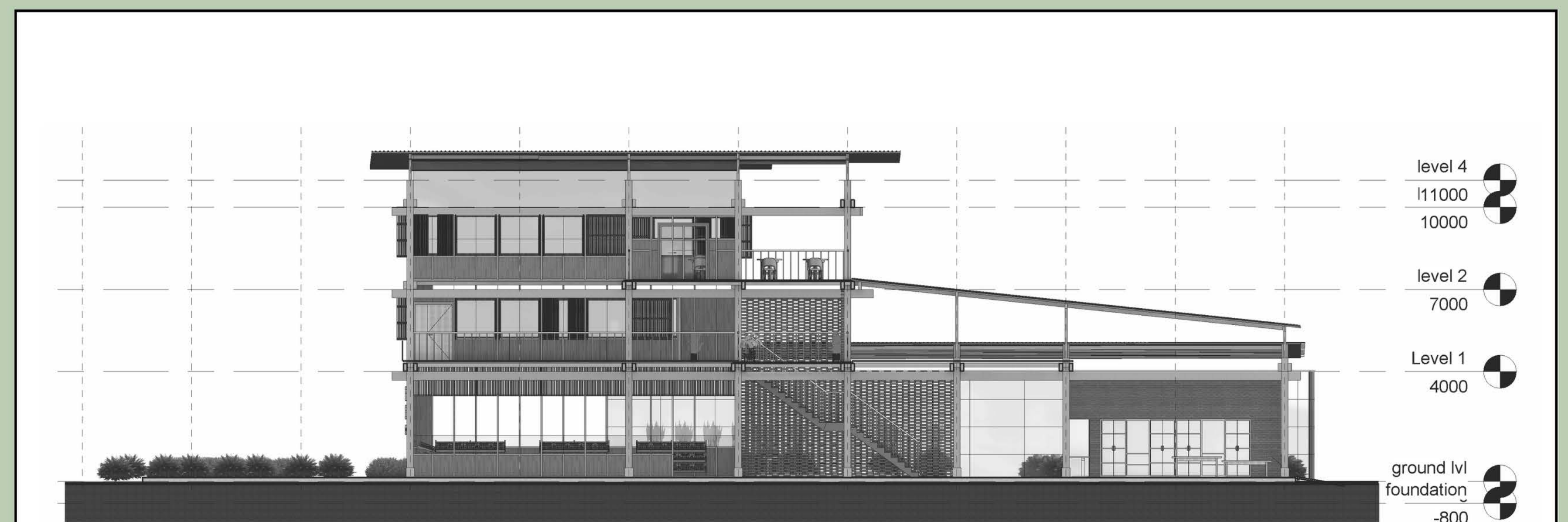


## ROOTS

The root layer embeds the building into the site by linking it with the public pathway and adjacent greenhouse. It houses accessible entry points, gardens, and outdoor seating — inviting the public in and fostering interaction, pause, and engagement with nature.



DETAILED SECTION B-B 1:30



SECTION A-A 1:150

NORTH EAST ELEVATION 1:150



SOUTH WEST ELEVATION 1:150





