

# COMMUNAL OPERATIONS

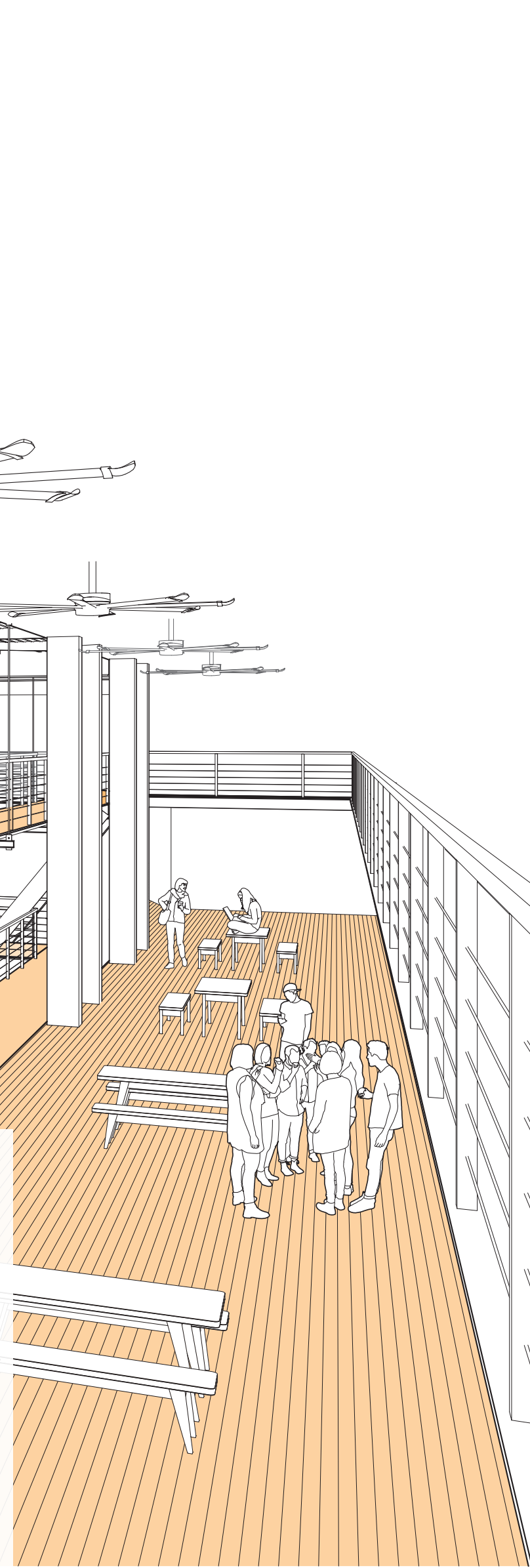
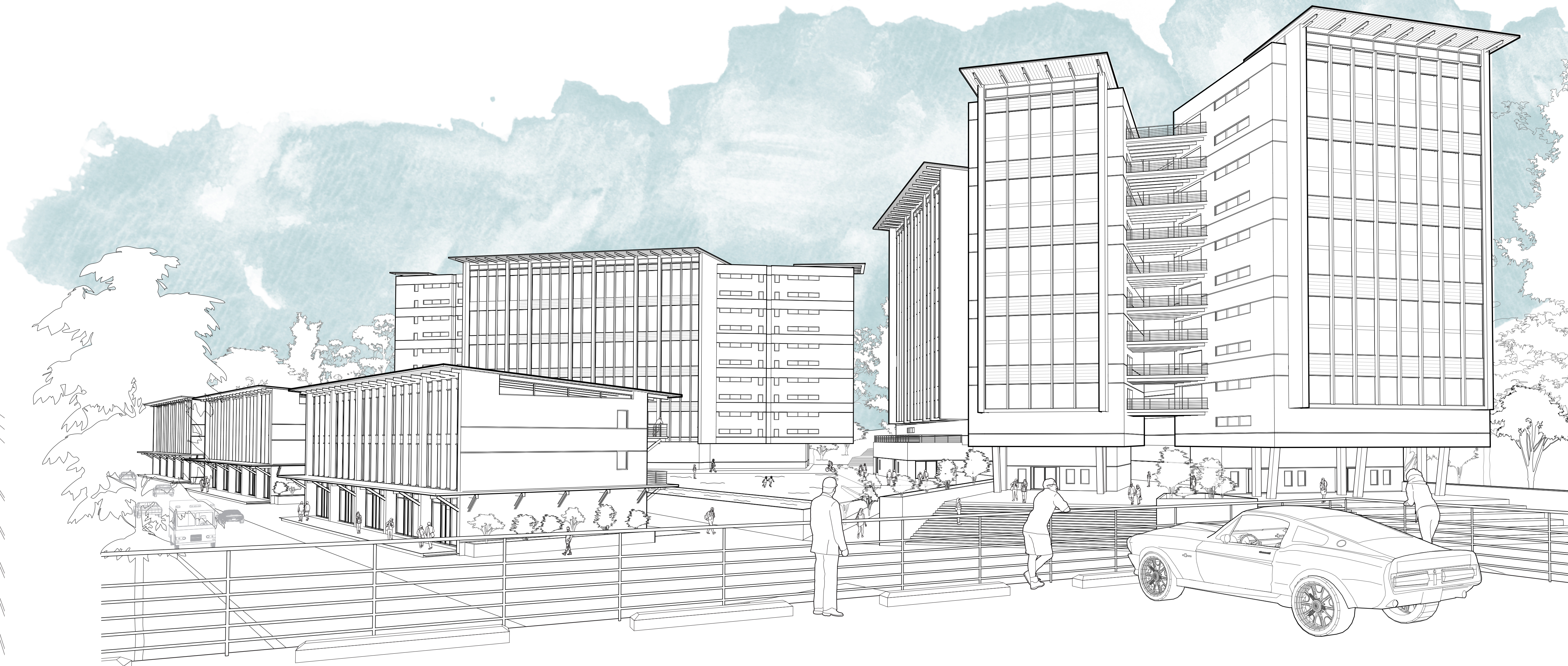
## ENGAGING COMMUNITY

In an effort to create a living building, the users and the architecture must both work in tandem. An architecture that lacks functional and experiential operations will, in turn, yield carefree users. **Communal Operations** seeks to offer means of comfort that appeal to a vast number of **diverse users** and challenge the conception of the dormitory hall and its relationship with **hall community**.

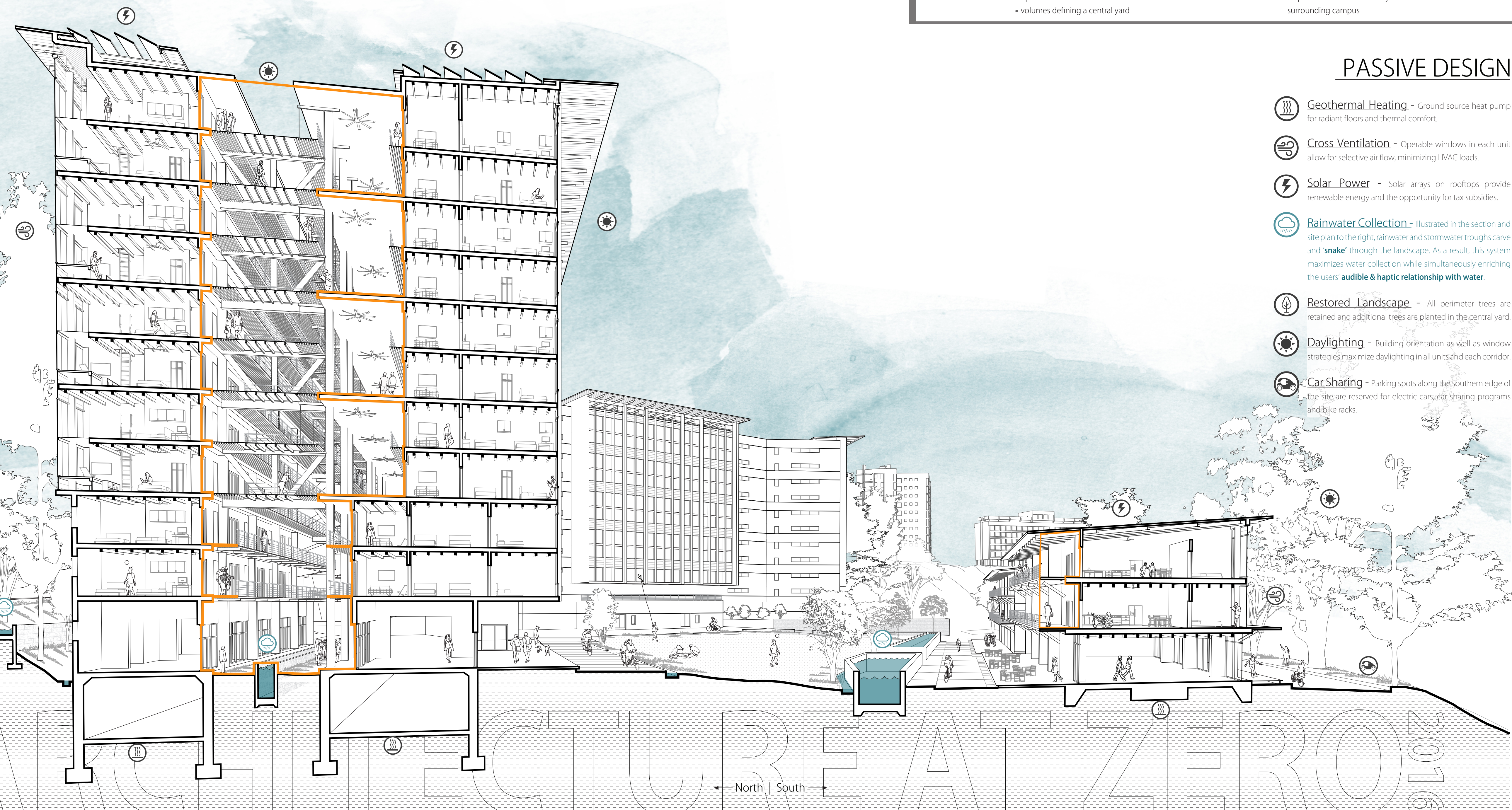
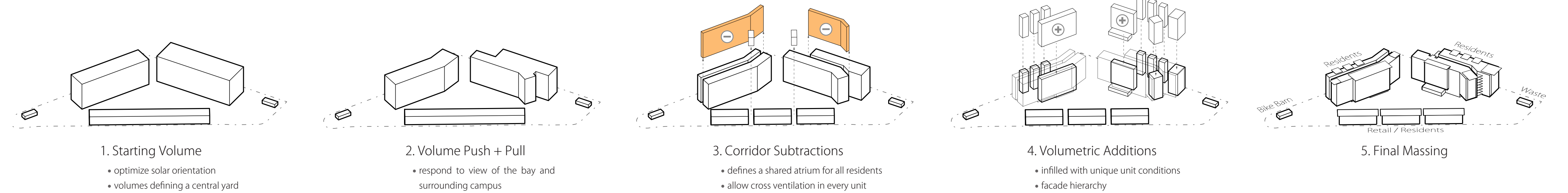
Today's typical dormitories are characterized by stacked volumes punctured by double loaded corridors with minimal isolated places for gathering and/or events. By altering the perception of the corridor, this design brings forth a lively experience by means of an **atrium corridor open to the elements**. Along this corridor, the variable path becomes a place for conversation and collaboration.

By distributing the program into five masses, the architecture is able to maximize passive design strategies such as cross ventilation, stack ventilation, direct gain and optimal daylighting conditions for all residents. In an effort to collect, filter, and use rainwater, the architecture and landscape function as a unified siphon in order to provide potable water for its residents and the people of San Francisco.

Illustrated in the section below and the interior perspective above, the atrium corridor transitions into a series of **double height porches**, providing residents with a **'flex-space'** for music, games, leisure, etc. Similarly, the central yard serves all residences, child care, and retail simultaneously. While within the central yard, users can anticipate picnicking, flying kites and ultimately, campus-wide events.



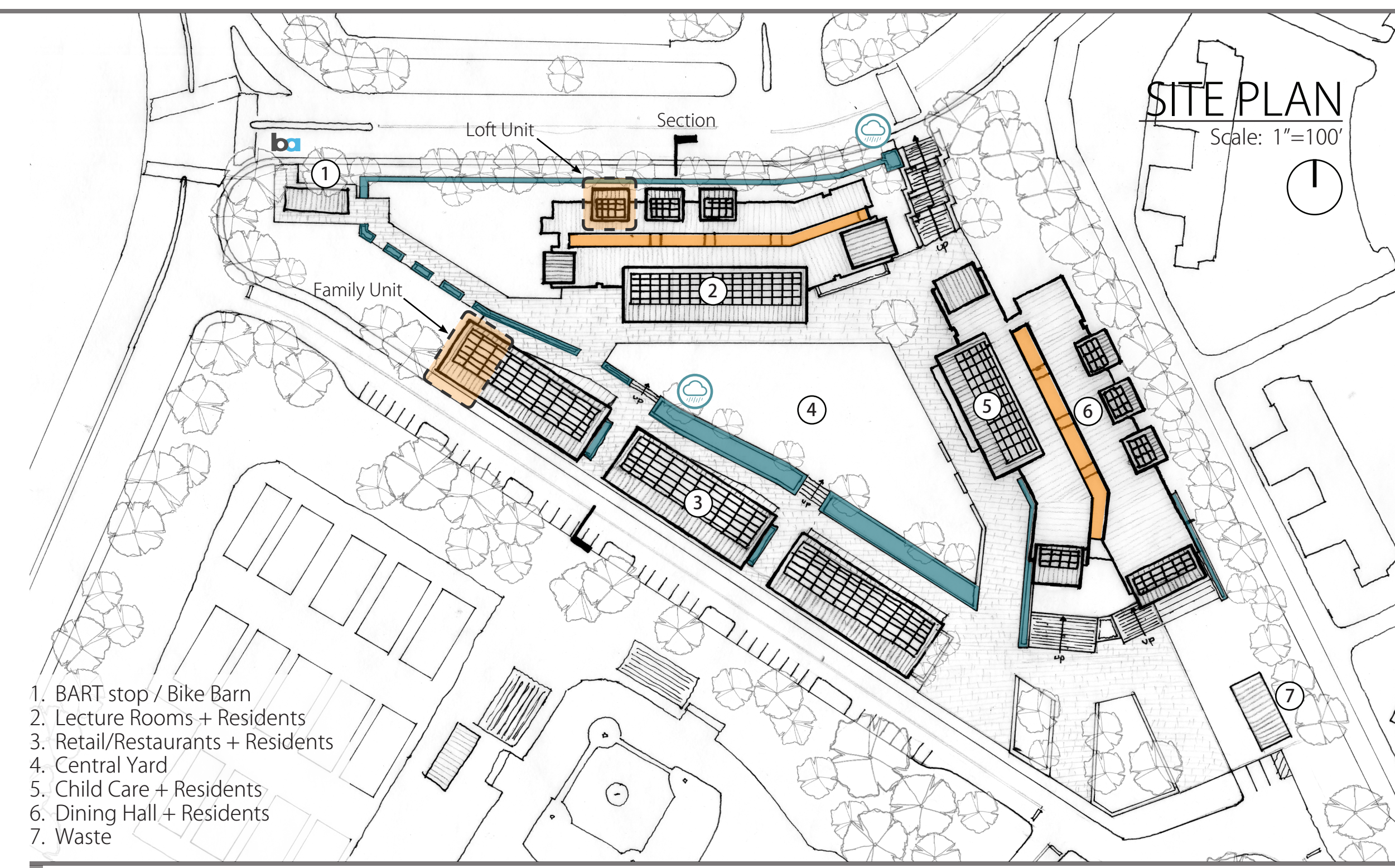
## MASSING STRATEGY



## PASSIVE DESIGN

- Geothermal Heating** - Ground source heat pump for radiant floors and thermal comfort.
- Cross Ventilation** - Operable windows in each unit allow for selective air flow, minimizing HVAC loads.
- Solar Power** - Solar arrays on rooftops provide renewable energy and the opportunity for tax subsidies.
- Rainwater Collection** - Illustrated in the section and site plan to the right, rainwater and stormwater troughs carve and 'snake' through the landscape. As a result, this system maximizes water collection while simultaneously enriching the users' **audible & haptic relationship with water**.
- Restored Landscape** - All perimeter trees are retained and additional trees are planted in the central yard.
- Daylighting** - Building orientation as well as window strategies maximize daylighting in all units and each corridor.
- Car Sharing** - Parking spots along the southern edge of the site are reserved for electric cars, car-sharing programs and bike racks.

## SITE PLAN



## UNIT COMPOSITION

