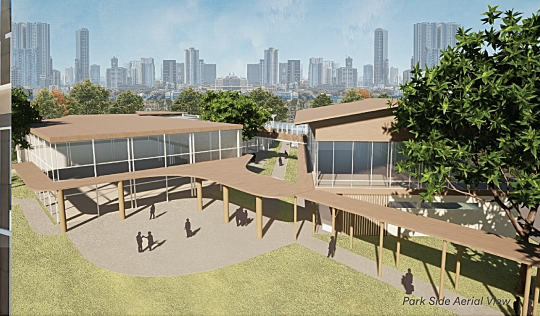




Site Aerial View



Site Aerial View



Park Side Aerial View

Integration of Urban Agriculture into Community Development for Residential Areas of Pasig City

Project Background



The residents of Pasig have been greatly affected by the recent pandemic in regards to food security due to the closing of markets and limited transport. Pasig is also experiencing a growth in population and their residential areas are becoming more dense because of urbanization and its location in the metro being in between Rizal and central business districts.



The local government and the residents have taken an interest in urban agriculture, most especially community gardens as a way to mitigate the difficulties in sourcing food. But due to the limitations to initiate the activity, the popularity of urban agriculture has been very slow. Actions towards solving the issue have been limited to small initiatives that incentivise residents to build community gardens.



More bottom-up methods and community-driven initiatives have also become more essential but are shown to be underutilized despite their growing need in the pandemic. The issue of food insecurity and the necessity of more community-driven initiatives is worsening in Pasig and will only continue after the pandemic because of the growing needs of urban residents. A cultural shift is necessary to significantly mitigate these issues in residential communities.

Project Goals

How can community-centered urban agricultural spaces provide residents an avenue to enhance food security and at the same time promote sustainable community practices?

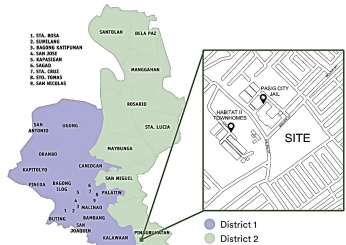
The study also looks into architectural solutions to integrate urban agriculture into urban communities to tackle the issues of food security and the need for community development efforts for the existing communities affected by the pandemic and for future residential developments.

Site Description

PINAGBUHATAN, DISTRICT 2, PASIG

The site chosen for this project is located in Brgy Pinagbuhatan of district 2 of Pasig City. This neighborhood is almost purely residential with R-3 type of housing and a few institutional establishments within the area. Pinagbuhatan is known for its dense expanse of residential communities and holds mostly residential activity.

PASIG CITY



The site is a clearing in a dense part of the neighborhood, away from the main road and commercial spaces. The site is already planned to become a park and evacuation area for the surrounding neighborhood.

Site Analysis

Notable Structures



Adjacent establishments are Pasig City Jail and Habitat for Humanity Community. The general land use of the neighborhood is residential.

Existing Structures

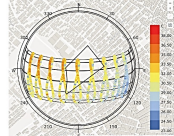


Vehicular Movement

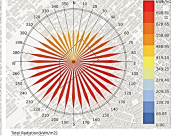


The site is surrounded by access roads and residential buildings directly across it. Small to medium sized trees and shrubs are found within the site. The community has already set up small gardens for food production and plant cultivation at the perimeter of the site.

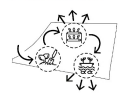
Sun Path



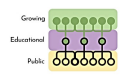
Radiation Rose



Design Approach



- Teaching new technologies and activities as users explore the site
- The adaptation of new farming methods could be brought to their own homes and potentially become common in their community



- To engage the residents to participate in urban agriculture.
- Spaces should encourage engagement in the activities and give opportunities on how residents can directly lead the development of the initiatives.



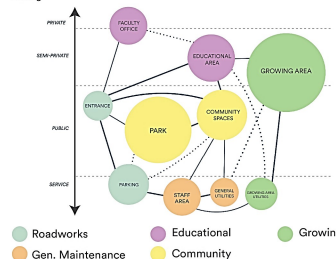
- Units that can be arranged based on needs of the community
- Replicable spaces using standard growing furnitures

Main Spaces and User Groups

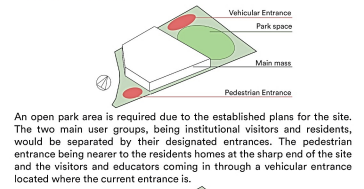
Spaces	User Group
Educational Areas	
- Demo Growing Areas	- Students
- Study Areas	- Volunteers
- Faculty	- Teachers
- Research Office	- Technicians
- Researchers	- Researchers
Community Areas	
- Multipurpose Areas	- Residents
- Park	- Visitors
- Gathering spaces	
Growing Areas	
- Traditional farming	- Residents
- Hydroponics modules	- Technicians
- Aquaponics modules	- Volunteers

Spatial Analysis

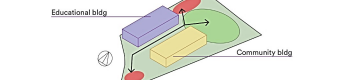
Zoning



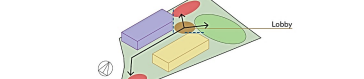
Massing Development



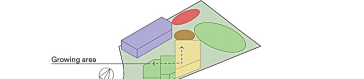
An open park area is required due to the established plans for the site. The two main user groups, being institutional visitors and residents, would be separated by their designated entrances. The pedestrian entrance being nearer to the residents homes at the sharp end of the site and the visitors and educators coming in through a vehicular entrance located where the current entrance is.



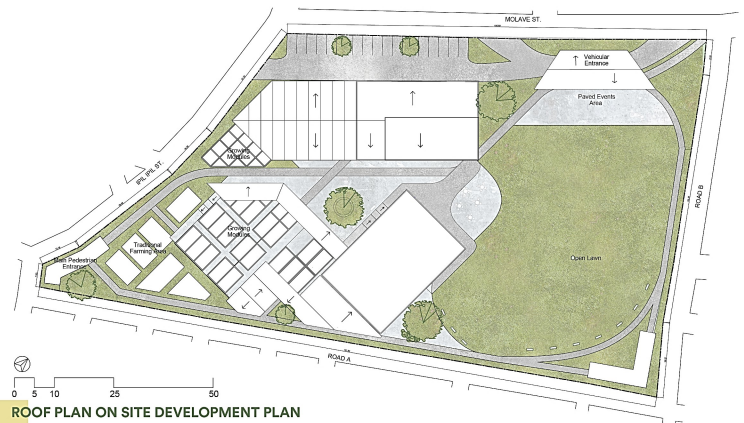
The mass would be divided into two main buildings for growing and community spaces, and the other for educational, administrative, and service spaces.



A central lobby where the buildings and park intersect would be made to act as a buffer between open space and built structure.

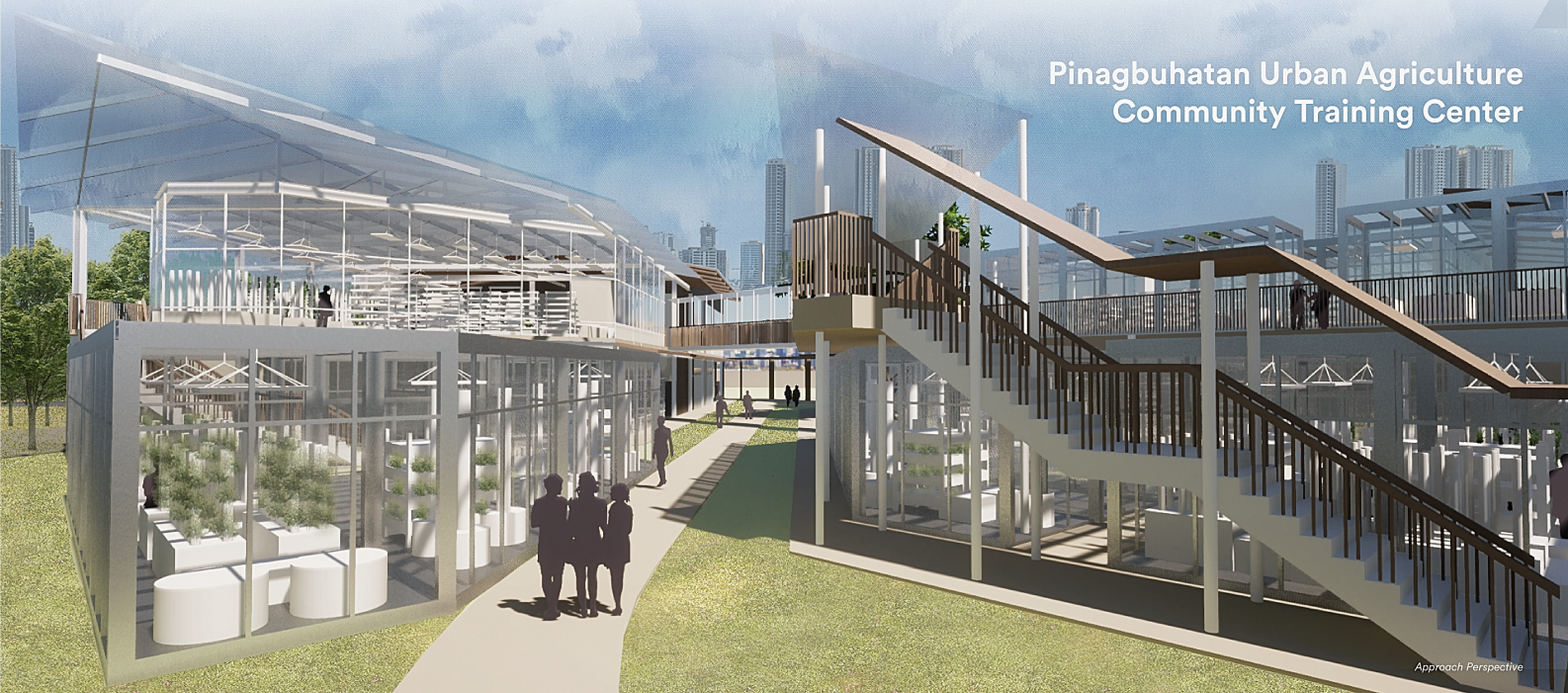


The difference of the institutional building and community and growing spaces should be more defined for better wayfinding and to make the difference of functions clear. The flexibility of the gathering spaces and the growing modules allow a less rigid arrangement, which led to a slanted orientation made up of permanent structure and repeated modules.



ROOF PLAN ON SITE DEVELOPMENT PLAN

Pinagbuhatan Urban Agriculture Community Training Center



Approach Perspective



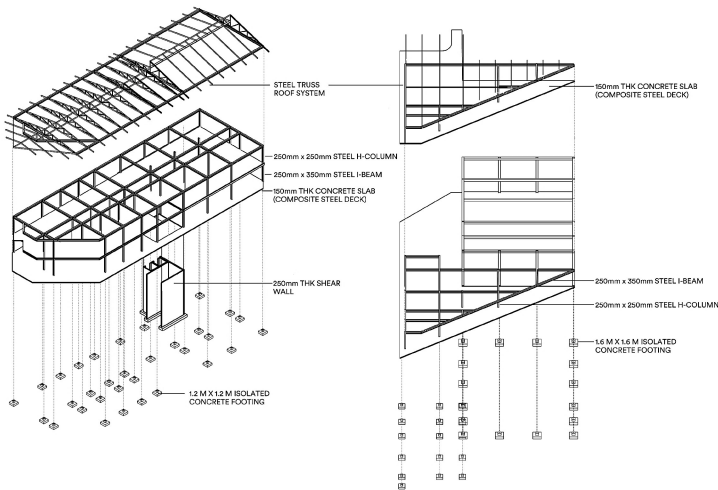
GROUND FLOOR PLAN



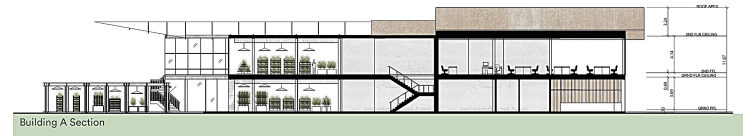
SECOND FLOOR PLAN



STRUCTURAL DETAILS



ELEVATIONS



SECTIONS



MODULE DETAILS

