

2018 FIRST PLACE

Leslie Finnie

LYCEUM

A traveling fellowship in Architecture

Guelph Living City Market



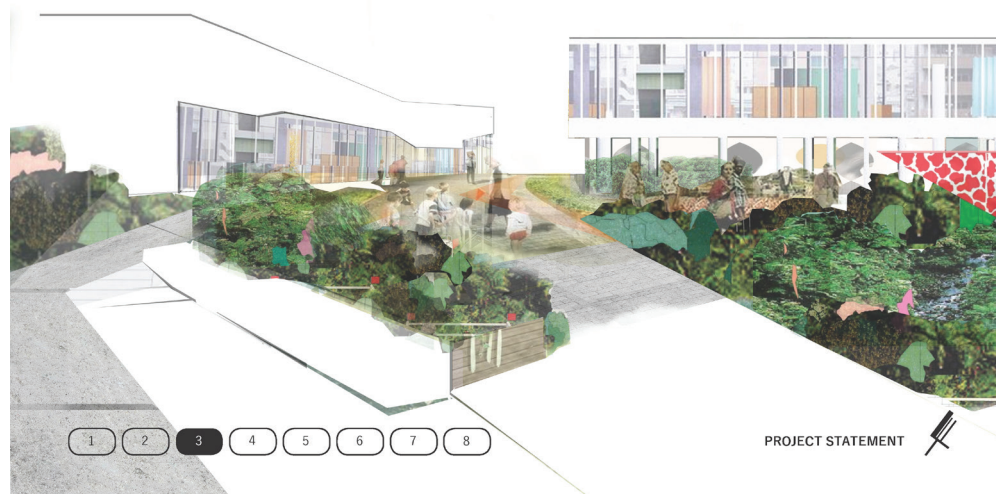


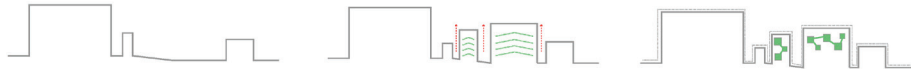
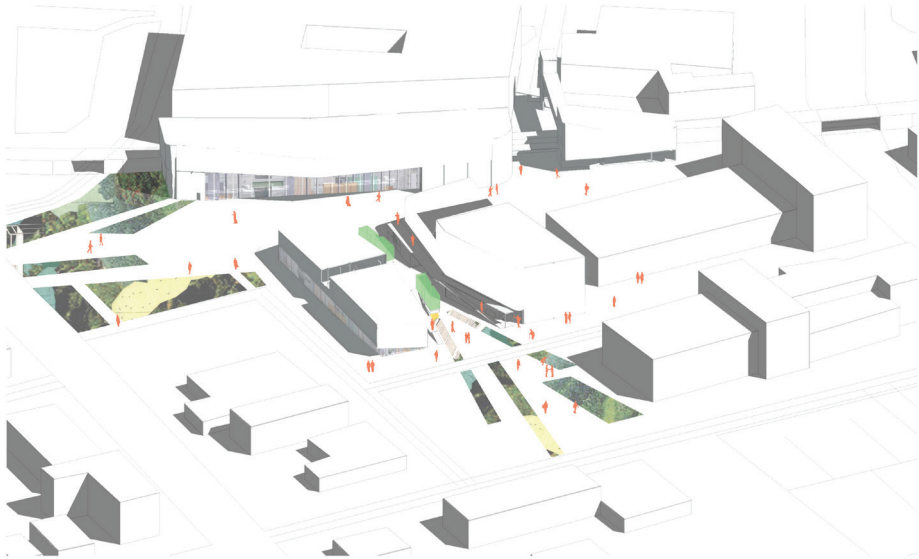
Urban Metabolism



By viewing cities metaphorically as a **metabolism**, we can begin to conceptualize the input-output nodes of all transformation processes into categories of people, food, resources, energy emission, products, and wastes. We can gain insight on the relationships between food consumption and social reproduction in various urban environments, including sustainable methods that will enhance the quality of life. The programmatic design for the market can generate awareness of the five types of sub-systems of food marketing: production, supply, distribution, and consumption of food. Users of all socioeconomic backgrounds will become knowledgeable about where their food comes from, how its being distributed and how it can be recycled back into the **urban community**. The design of the market will be transformed into an interactive environment for users to sell & trade goods, farm their own produce, and experience a unique culinary experience while dining under floating vertical gardens.

View From Gordon Street

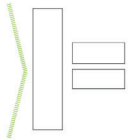




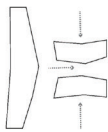
The first plans of the city were designed to help attract local farmers to the surrounding area.

Generating more agricultural land by building vertically. Food will be grown hydroponically

New structures provide food, save land, while contributing to the biodiversity of Guelph, ON



Mass



Pinch + Fold



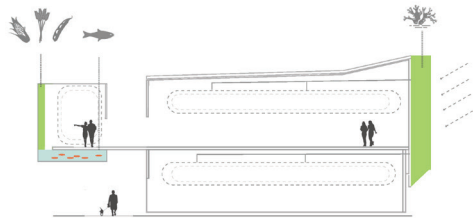
Program



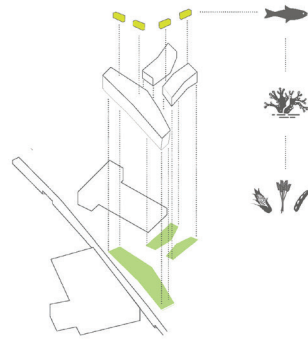
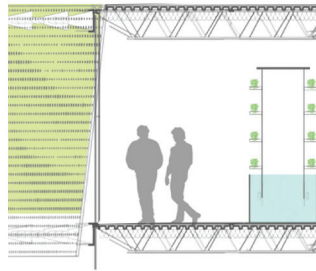
Spatial Adjacencies



Metabolic Process

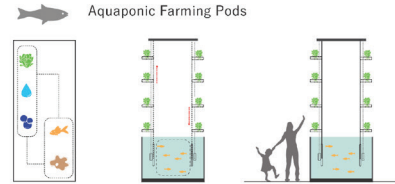


Metabolic Process Applied to Form

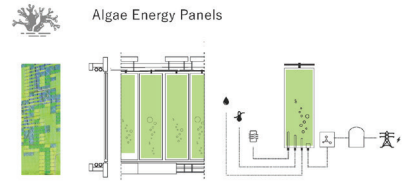


**Metabolic Processes :
Indoor Farming & Renewable Energy**

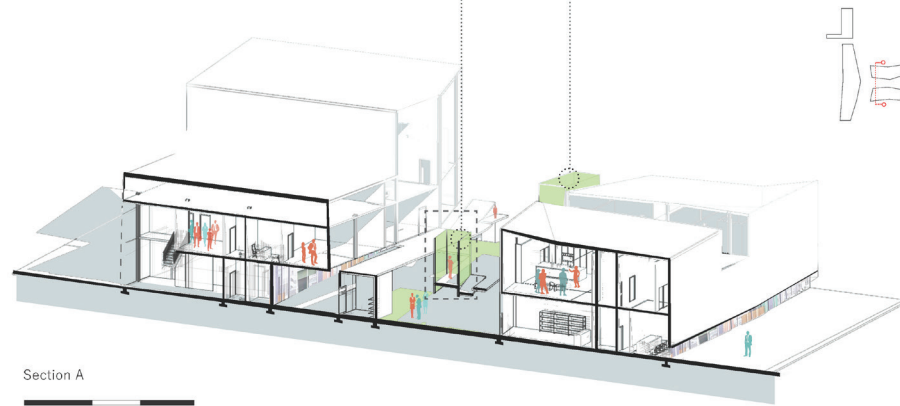
A technology-based approach toward food production and maintain optimal growing conditions within an enclosed growing structure such as a greenhouse or building. The fish waste provides an organic food source for the plants, and the plants naturally filter the water for the fish.

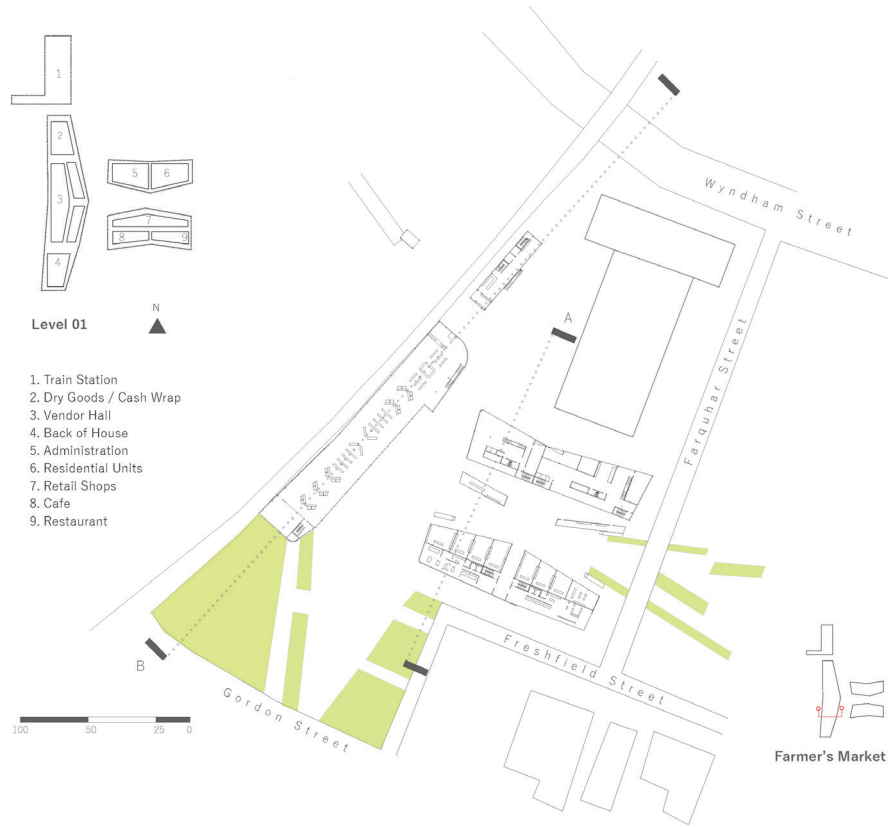


Aquaculture (raising fish) and hydroponics (the soil-less growing of plants) that grows fish and plants together in one integrated system.



As algae grows and becomes dense, it exits the bioreactor volume and enters a combustion chamber. The biomass is converted into electricity for use and carbon dioxide to be recycled in the growth process.



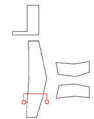


Level 01

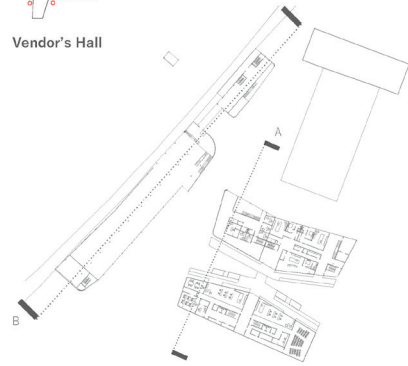
- 1. Train Station
- 2. Dry Goods / Cash Wrap
- 3. Vendor Hall
- 4. Back of House
- 5. Administration
- 6. Residential Units
- 7. Retail Shops
- 8. Cafe
- 9. Restaurant

Farmer's Market



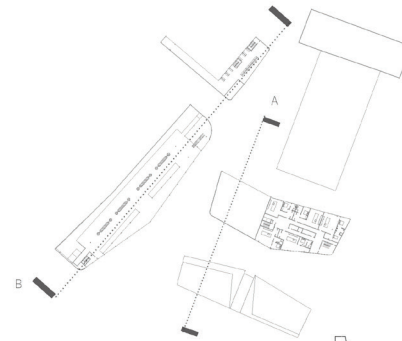


Vendor's Hall



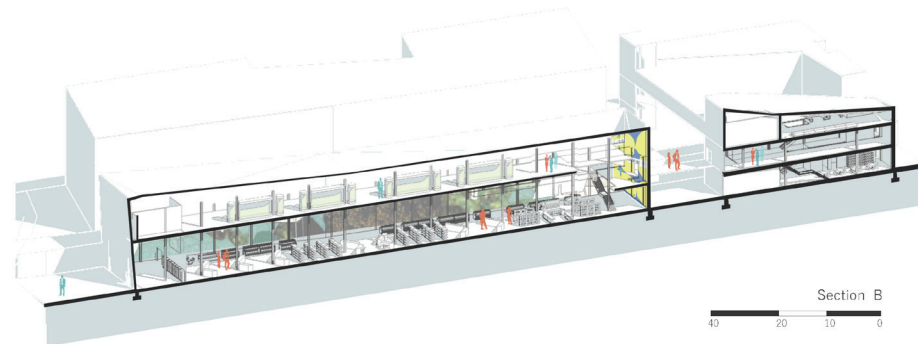
Level 02

- Residential, ● Office, ● Farming Pods,
- Support Spaces, & ● Auditorium



Level 03

- Residential & ● Aquaponic Farms

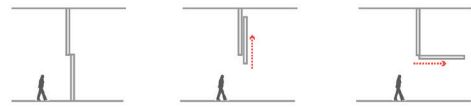


Section B





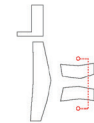
North Elevation



Farmer's Market Entry



User's Experience



Outdoor Event Space

