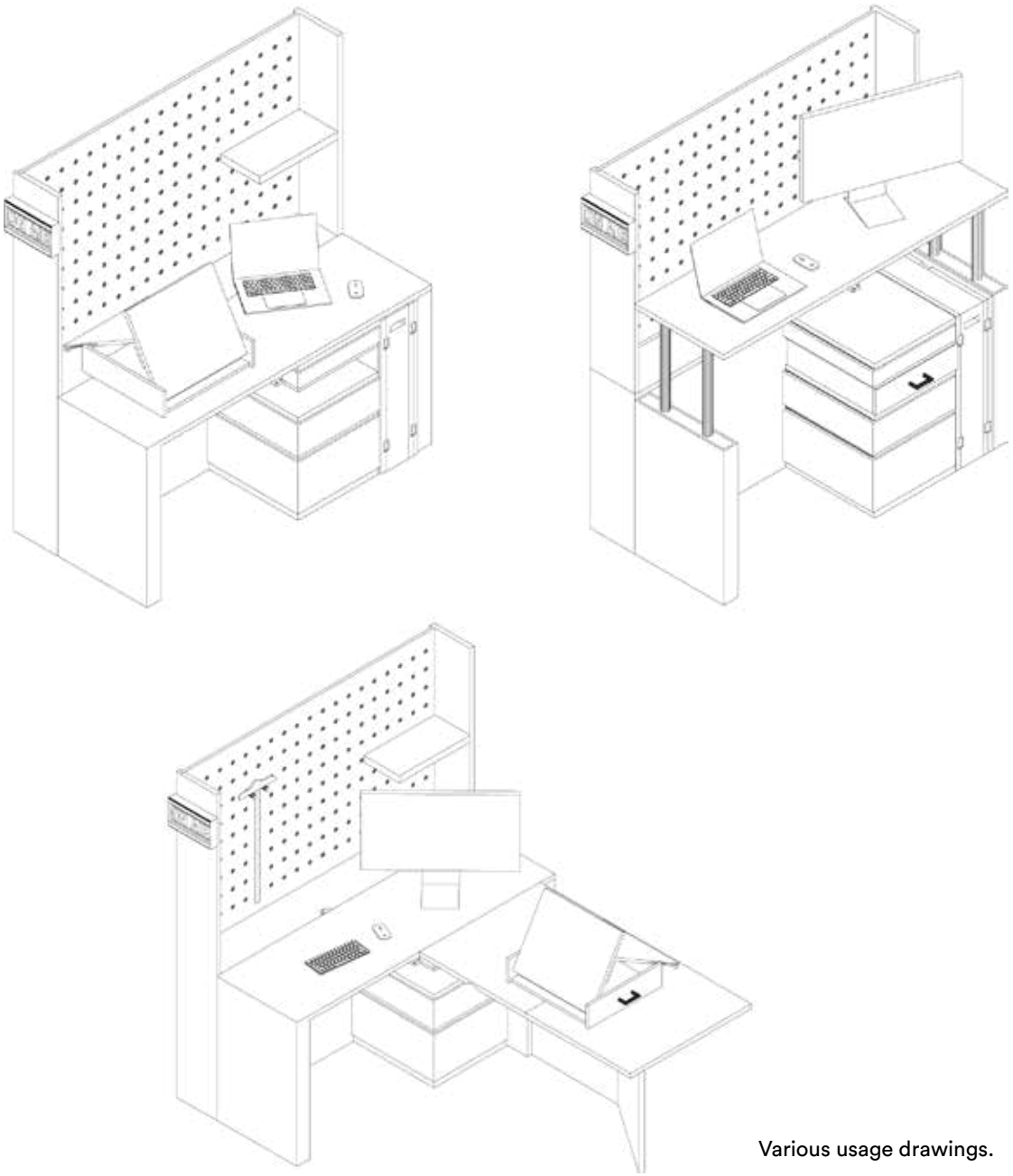
Richard He
Selected Design Work
2018 - 2021

Architectural Design
Graphic Design
Visual Representation

A higher resolution version is available at
www.richardhe.ca/portfolio



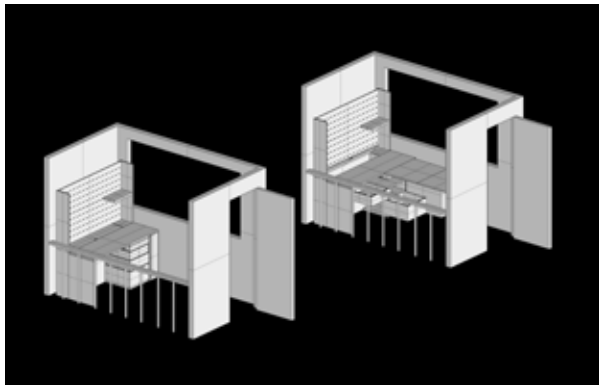
Various usage drawings.

Teknik Desk
AE100 Concepts Studio
University of Waterloo, Fall 2020

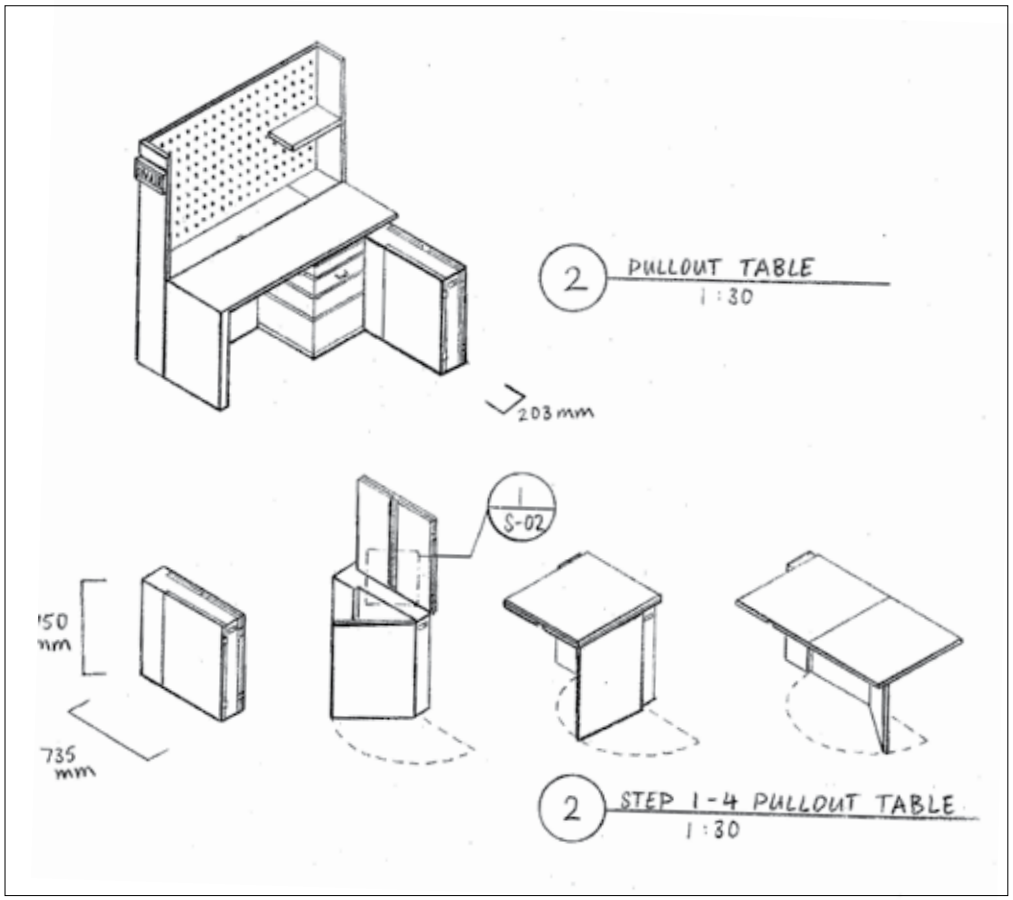
In a constantly evolving environment, architecture is challenged to be as flexible and adaptable as the people that inhabit it. This was a primary focus of *Teknik*, our workspace solution for the typical Architectural Engineering student.

Designed to allow for maximum comfort and productivity under multiple configurations, *Teknik* features an extendable desk, for additional workspace, a portable drafting box that can be stored as a drawer, and additional elements like an “On Air” sign, customizable pegboard shelving and a two-way drawer.

Designed with:
Ashten Fairhall, Athena So
and Emily Wong

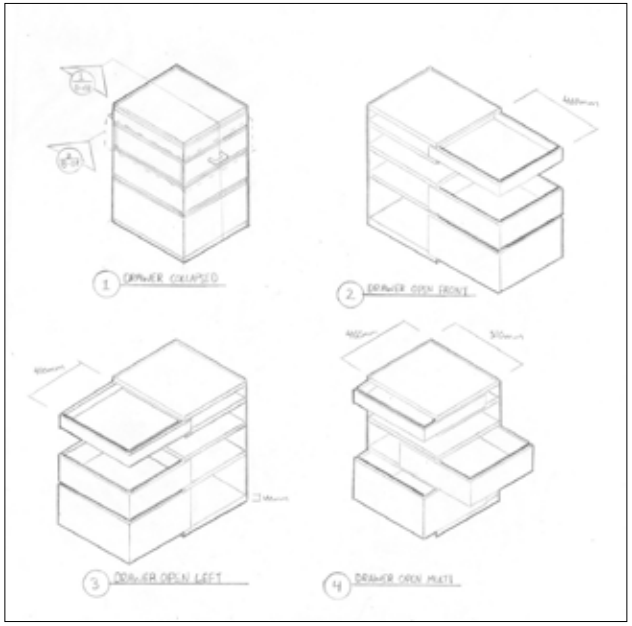


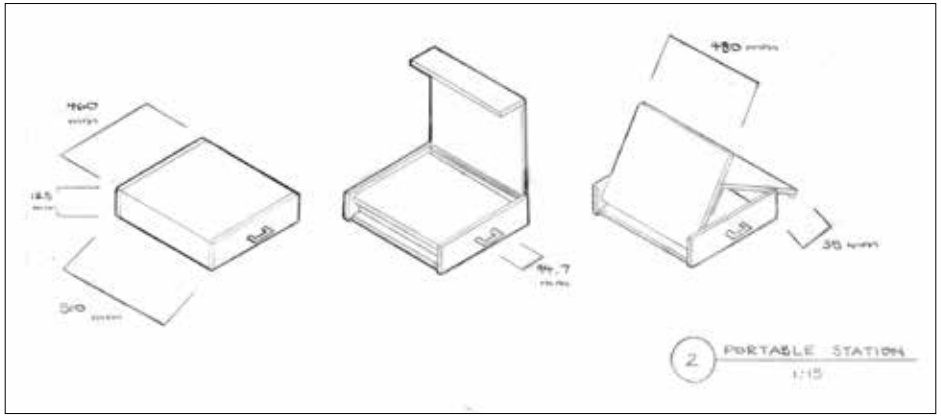
Working Rhino model screenshots, with site



Pullout Table Detail.
Layout and linework prepared by Richard He. Drawings traced and annotated by Athena So.

Below: Multi-directional Drawer Usage Detail
Layout and linework prepared by Richard He. Drawings traced and annotated by Emily Wong.



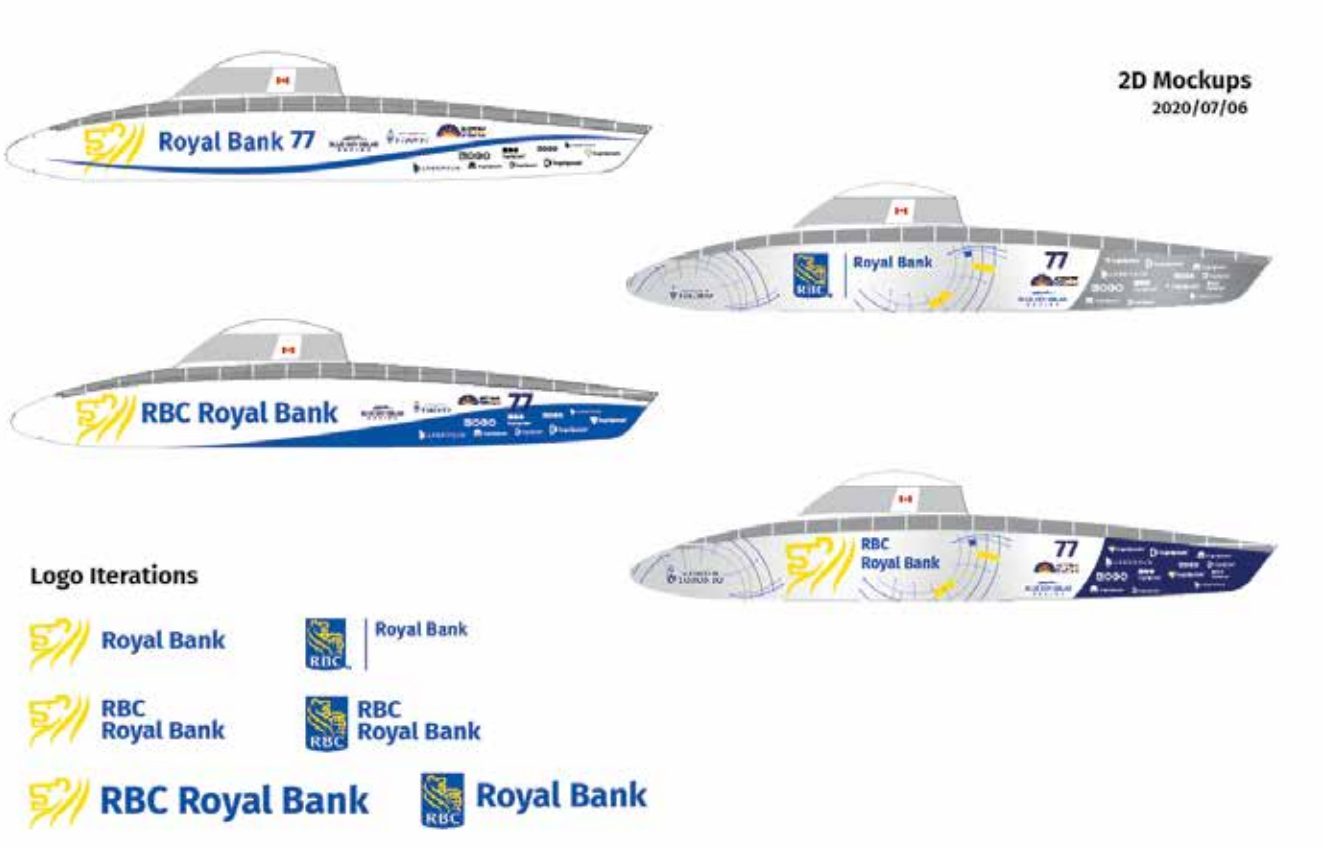


Portable Drafting Station Detail.
Layout and linework prepared by Richard He. Drawings traced and annotated by Ashten Fairhall.

Conceptual Livery Design

Blue Sky Solar Racing
Summer 2020 - present

In addition to my typical responsibilities, I also conceptualized and designed potential liveries for certain sponsorship proposals, using Illustrator and Rhino 6 to prepare mockups and renderings of possible title sponsor designs.



Design mockups of livery concepts for RBC, using a lion graphic variant of the shield logo of my own design

Hybrid rendering of a design for MNP

Various design mockups created using Illustrator, for various potential title sponsors

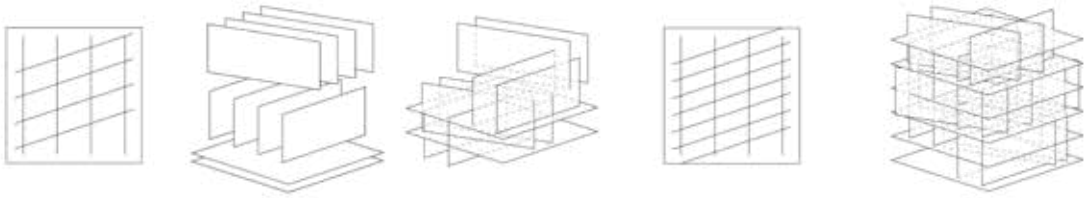
16 Column Grid

ARC201 How to Design Almost Nothing
University of Toronto, Fall 2019

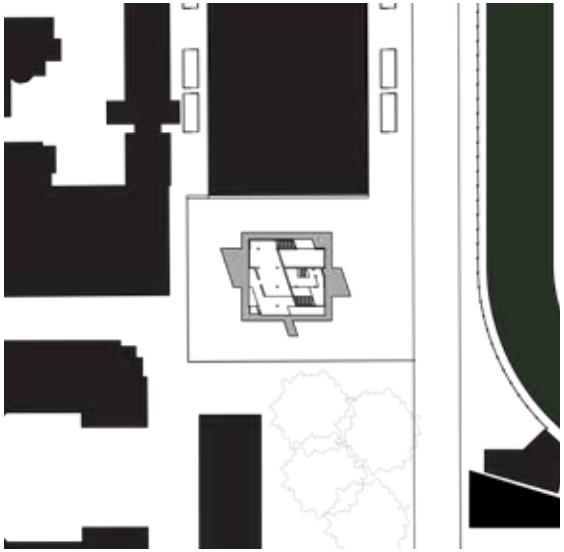
This semester long project explored various responses to the traditional 4×4 column grid question, culminating with a proposal for a study space on a given site within the University of Toronto St. George Campus. This approach in particular examines the way forms are revealed through the interference of two unique pattern systems.

Renders of final design completed using Rhino and Lumion.

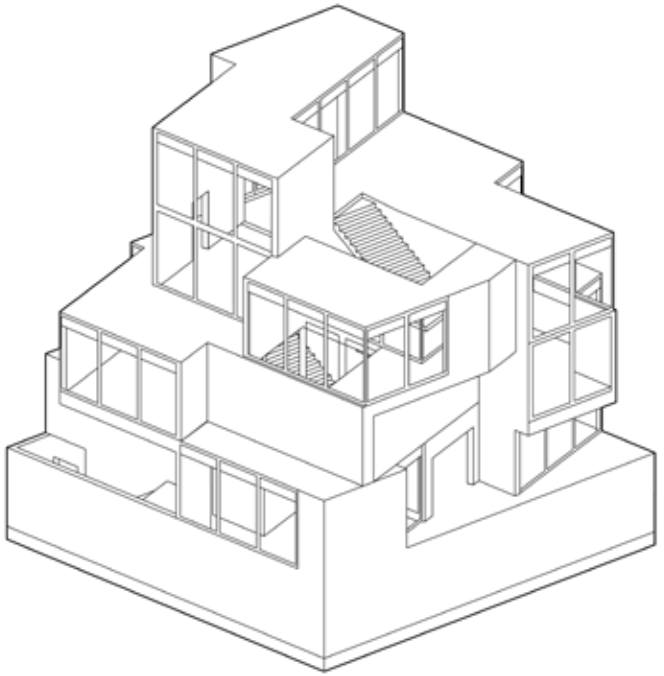
Parti sketches



Perspective Section



Nolli Map with Building Plan

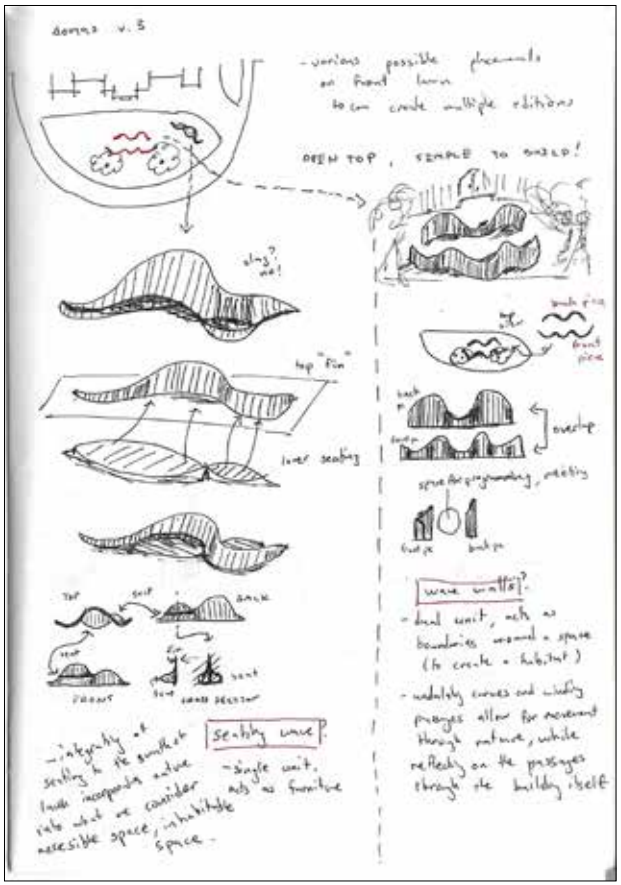


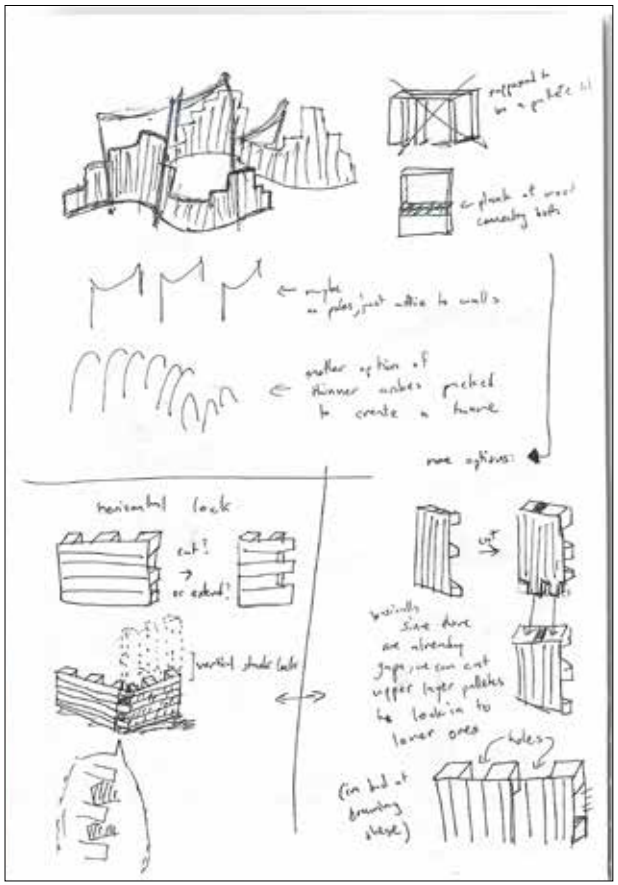
Isometric Drawing

DOMUS
Daniels Art Directive
Summer 2019

The DOMUS project was the inaugural summer installation proposal for the Daniels Building designed by Daniels Art Directive, an undergraduate design and fabrication art installation group.

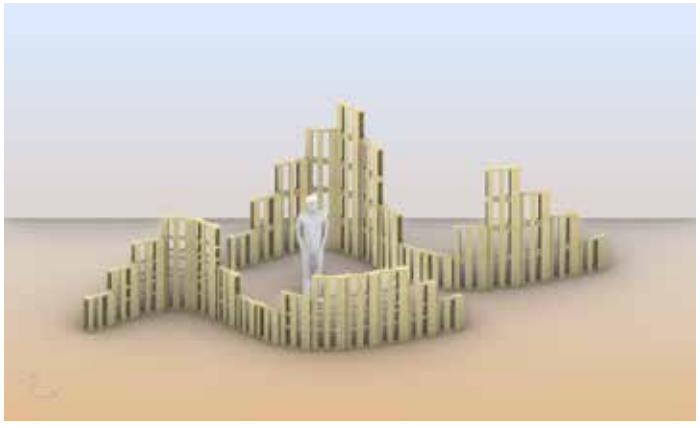
Working with many other student designers, I worked on early design iterations and wrote copy for the proposal, as well as helping fabricate the project after it was accepted by the faculty.

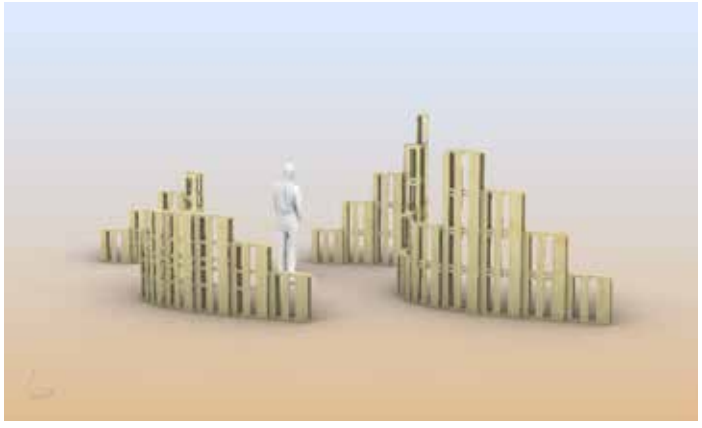




Early Sketches

Quick Rhino Renders, using a model generated in Grasshopper





Hybrid perspective render, within site

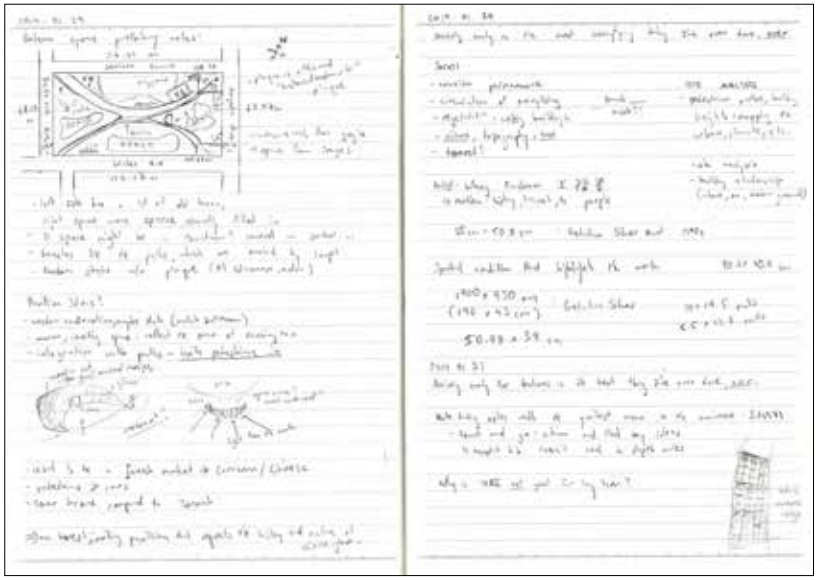
Bellevue Square Pavilion

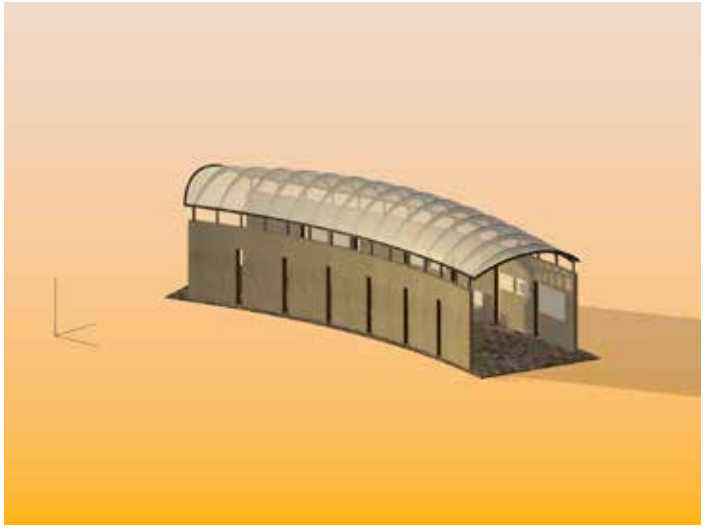
JAV101 How to Design Almost Anything
University of Toronto, Winter 2019

Designed as a theoretical art exhibit in Bellevue Square Park, Toronto, this project focused on the traversal nature of museums, incorporating it into the walkable nature of the surrounding community of Kensington Market.

In particular, this pavilion was designed to house the work of Wang Fu Chun, a Chinese photographer who has been documenting the lives of train passengers for decades, telling the stories of people in the midst of transit through both time and space.

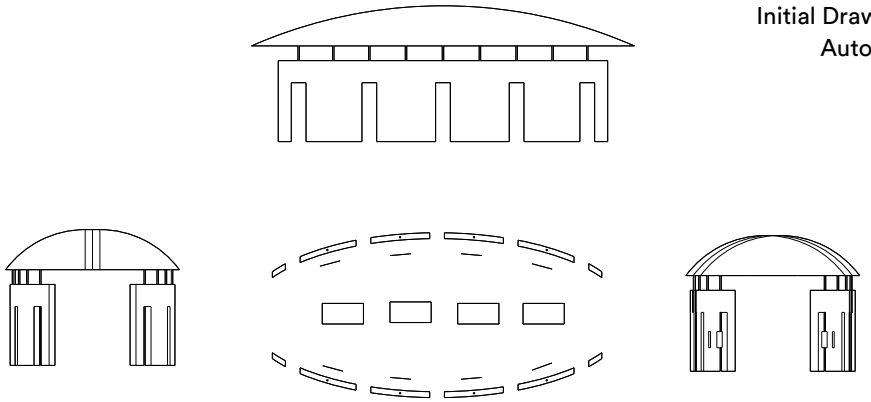
Site measurements and notes on Selected Artist and Brainstorming





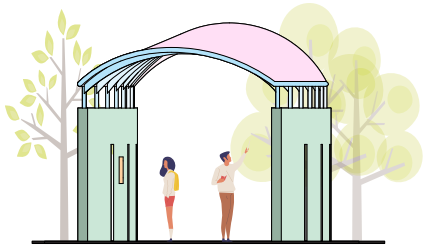
Rhino Render. The entire model was parametrically modelled, using Grasshopper.

Nolli Map
CAD, Illustrator

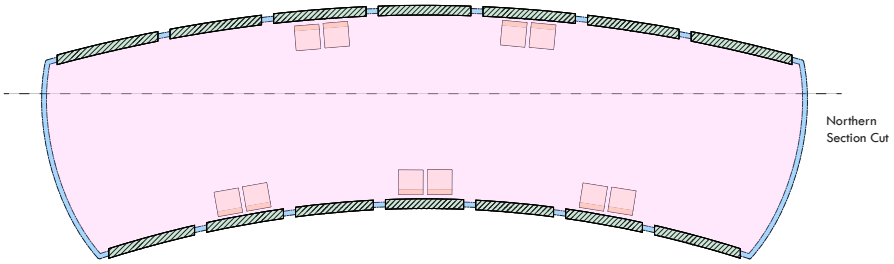


Initial Drawings
AutoCAD

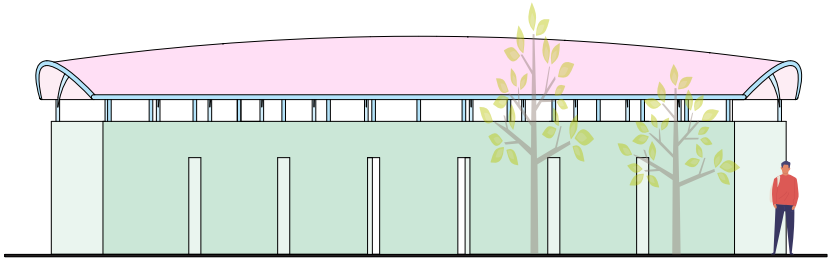
Final Drawings, completed using AutoCAD and Illustrator



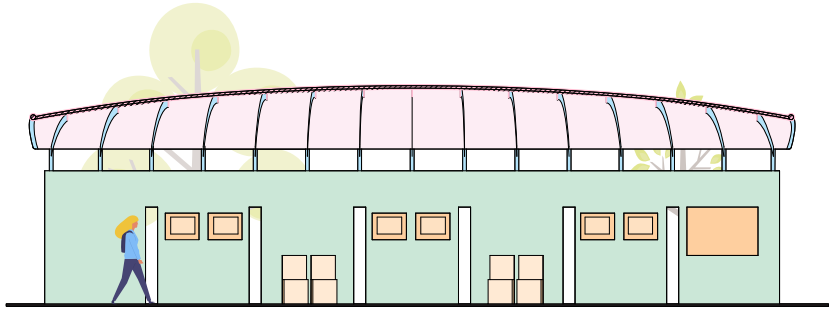
Western Elevation 1:50



Section Plan 1:50



Northern Elevation 1:50



Northern Section 1:50

Thank you!

Contact:
hello.richardhe@gmail.com
647-862-9362

www.richardhe.ca