

# Table of Contents

## Major Design Projects

Pearl of Ottawa  
Paris Fortification Museum  
Inside the Lantern  
The Stage  
Dance of wall

## Minor Projects & Studies

## Drawings & Digital Works

Bizhou Qian's Portfolio

# Pearl of Ottawa

Temporary Housing Complex for New Immigrants

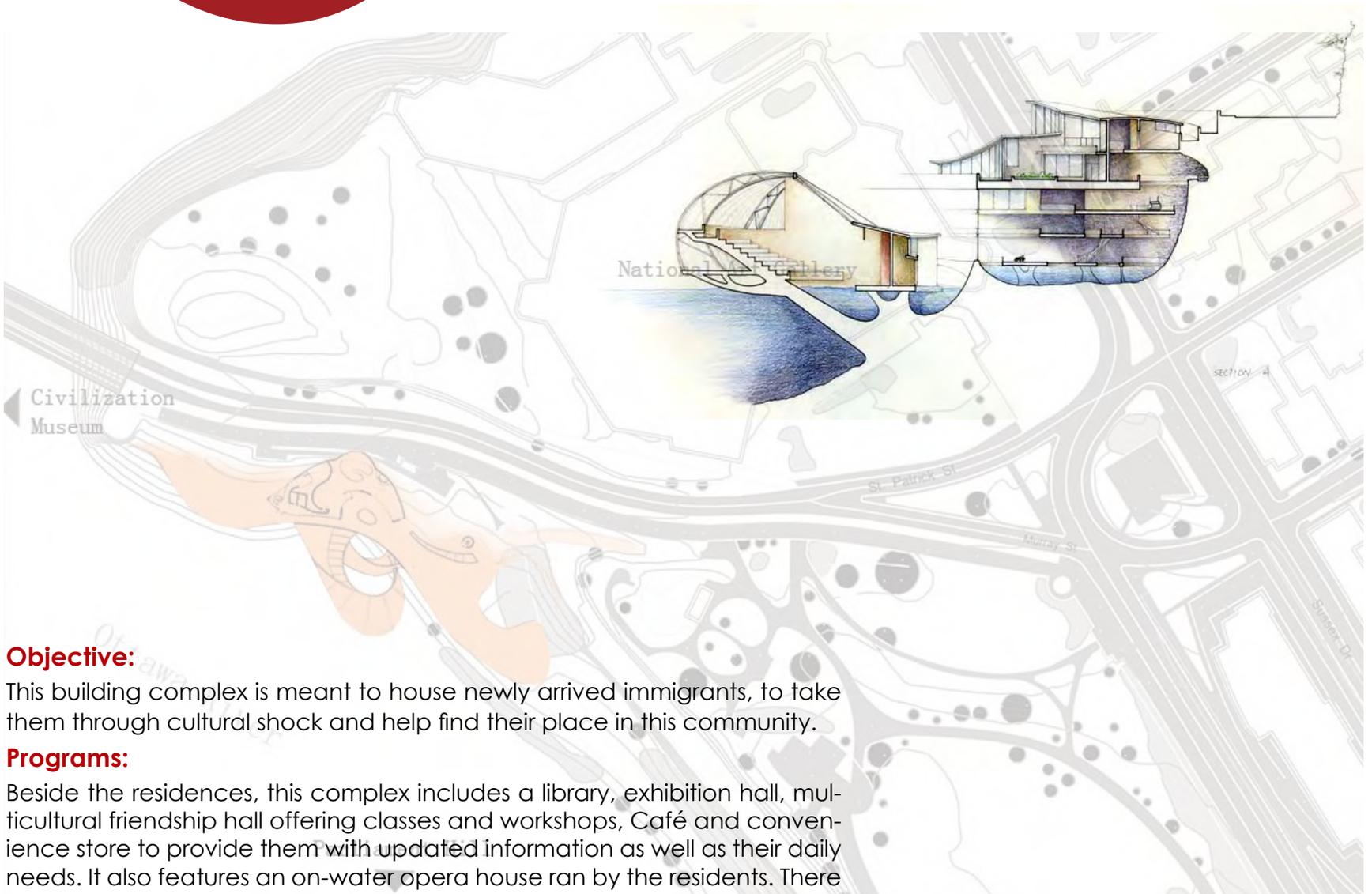


**Year of Study:** Fourth Year Undergraduate Study  
**School of Study:** Azrieli School of Architecture and Urbanism, Ottawa  
**Instructor:** Greg Andonian



**Site Location:**

Ottawa River Bank. Across from Parliament hill, next to Alexander Bridge & National Art Gallery. This is where the city of Ottawa began. Where history, culture and art of the city comes together. It is the perfect place for new immigrants to experience the city.



### **Objective:**

This building complex is meant to house newly arrived immigrants, to take them through cultural shock and help find their place in this community.

### **Programs:**

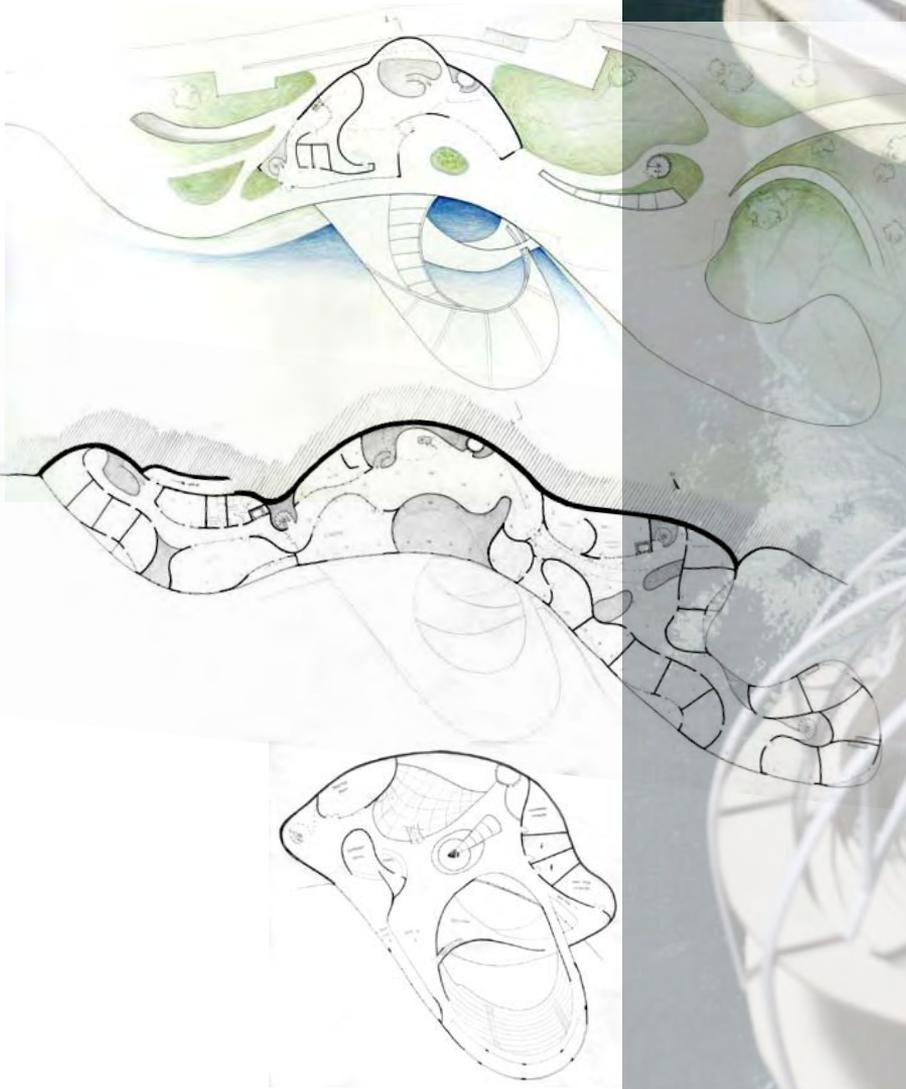
Beside the residences, this complex includes a library, exhibition hall, multicultural friendship hall offering classes and workshops, Café and convenience store to provide them with updated information as well as their daily needs. It also features an on-water opera house ran by the residents. There they design and perform to the public with their unique talents and culture.

### **Design:**

Since the project is located on a beautiful natural site along the shore, the design intended not to disturb but rather enhance the beauty of this natural site.

The building took its curved form from its site, a form of opened arms showing one precious pearl glittering in the middle. The main portion of the building is hardly visible from the road - half buried in the natural landscape, half hovering above the Ottawa river. Yet, the on-water opera house shines like a pearl, catching every eye passing by. Symbolically, this is the life of new immigrants. They are unknown to this community until they let their talent shine.

Left: Cross Section  
Top: Entrance Level  
Middle: Residence Level  
Bottom: Opera Theatre Level





# Paris Fortification Museum

New Home for Louis XIV's Fortification Models and Relief Plans



**Year of Study:**  
**School of Study:**  
**Instructor:**

Third Year Undergraduate Study  
Azrieli School of Architecture and Urbanism  
Janine Debanné

### Site Location:

On the south side of La Villette park in Paris, France.

### Objective:

To design a Museum for displaying the fortification models of France and foreign towns, built in the years of Louis XIV. They are currently displaced on the insignificant top floor of Hôtel des Invalides. These models were formerly military secrets since aerophotos were not available. Now they are an exceptional source of information for the history of the architecture, town planning and changes to the countryside.

### Programs:

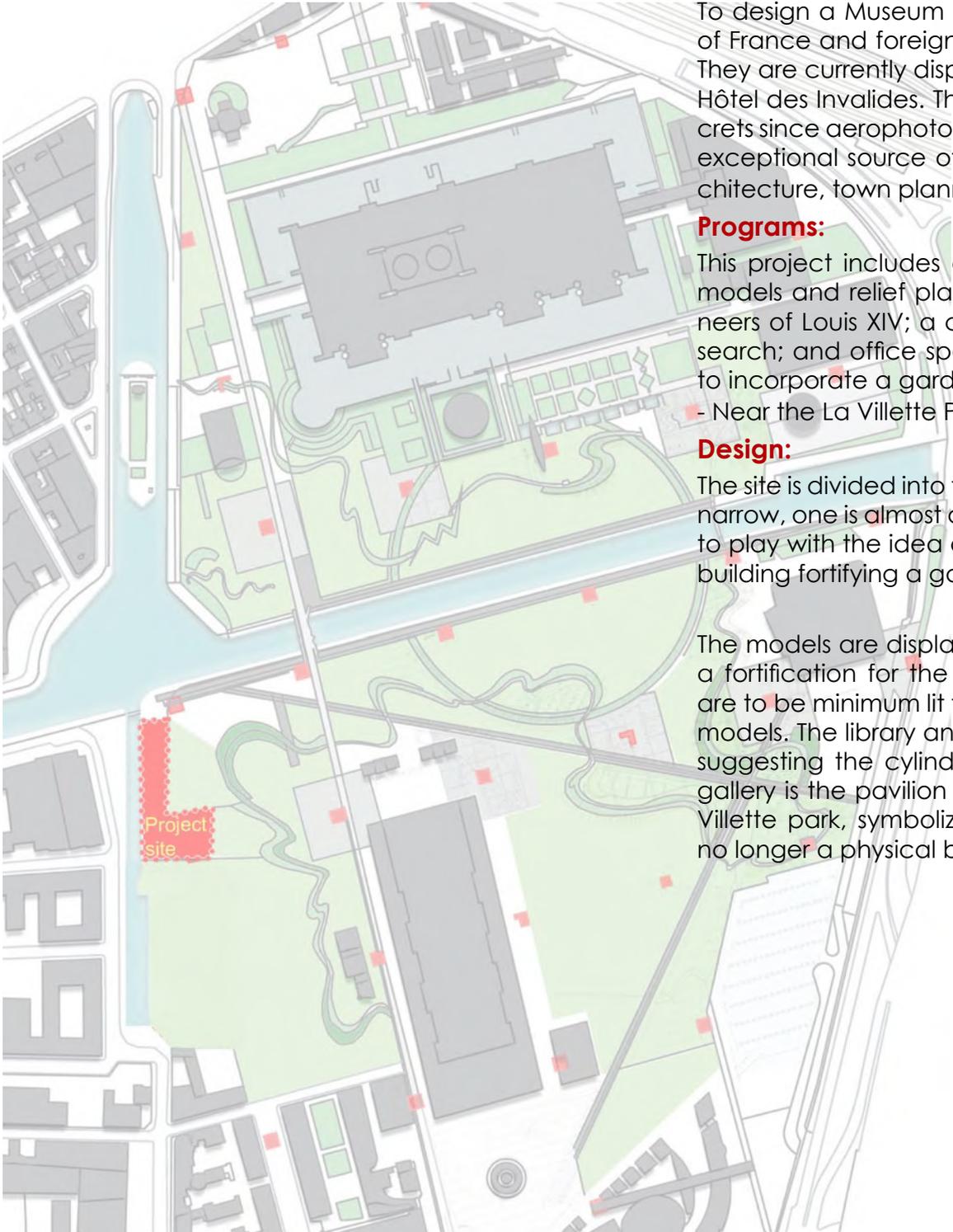
This project includes exhibition spaces for the fortification models and relief plans done in great details by the engineers of Louis XIV; a contemporary gallery; a library for research; and office spaces for the staff. The project is also to incorporate a garden to accommodate its environment

- Near the La Villette Park.

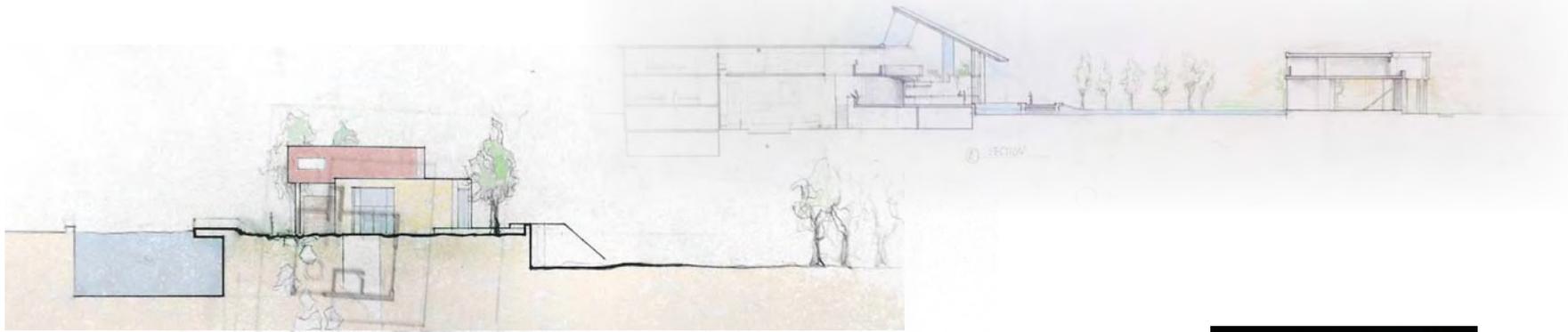
### Design:

The site is divided into two parts by its shape, one longer and narrow, one is almost a square. The concept of this project is to play with the idea of a garden fortifying a building vs. a building fortifying a garden.

The models are displayed in the building which is acting as a fortification for the cylinder garden inside. These rooms are to be minimum lit to avoid material deterioration on the models. The library and the offices are in the curved tower, suggesting the cylinder garden inside. The contemporary gallery is the pavilion in the long garden, echoing the La Villette park, symbolizing the now-a-days fortifications are no longer a physical barrier, but a connotation.



Project site



Top Right: Longitudinal Section  
Top Left: Contemporary Gallery Section  
Left Background: Entrance Level Plan  
Bottom Left: Museum Section



# Hotpot Inside The Lantern

Design - Build Dinner Pavilion



**Year of Study:** Third Year Undergraduate Study  
**School of Study:** Azrieli School of Architecture and Urbanism  
**Instructor:** Honorata Pienkowska

**Site Location:**

Carleton University, bank of Rideau River, Ottawa,  
There is a large tree on site offering a canopy creating a semi-protected and tranquil pocket of space.

**Objective:**

This is a 6 weeks long design & build pavilion along the river bank in a group of seven students. A cooking festival is held after the completion. The objective is to work with material and structure details in full scale and get a better understanding of architecture.

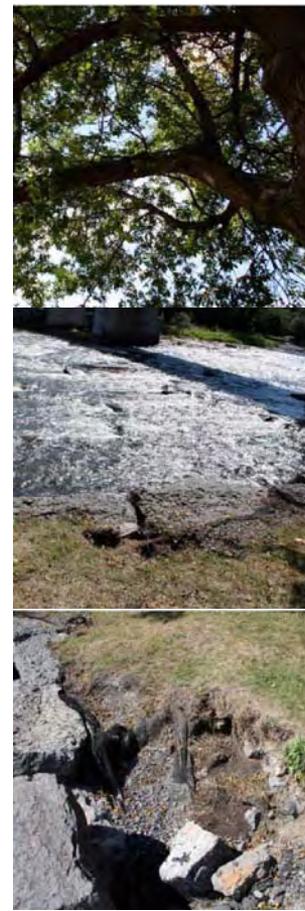
**Programs:**

Hotpot for nine people

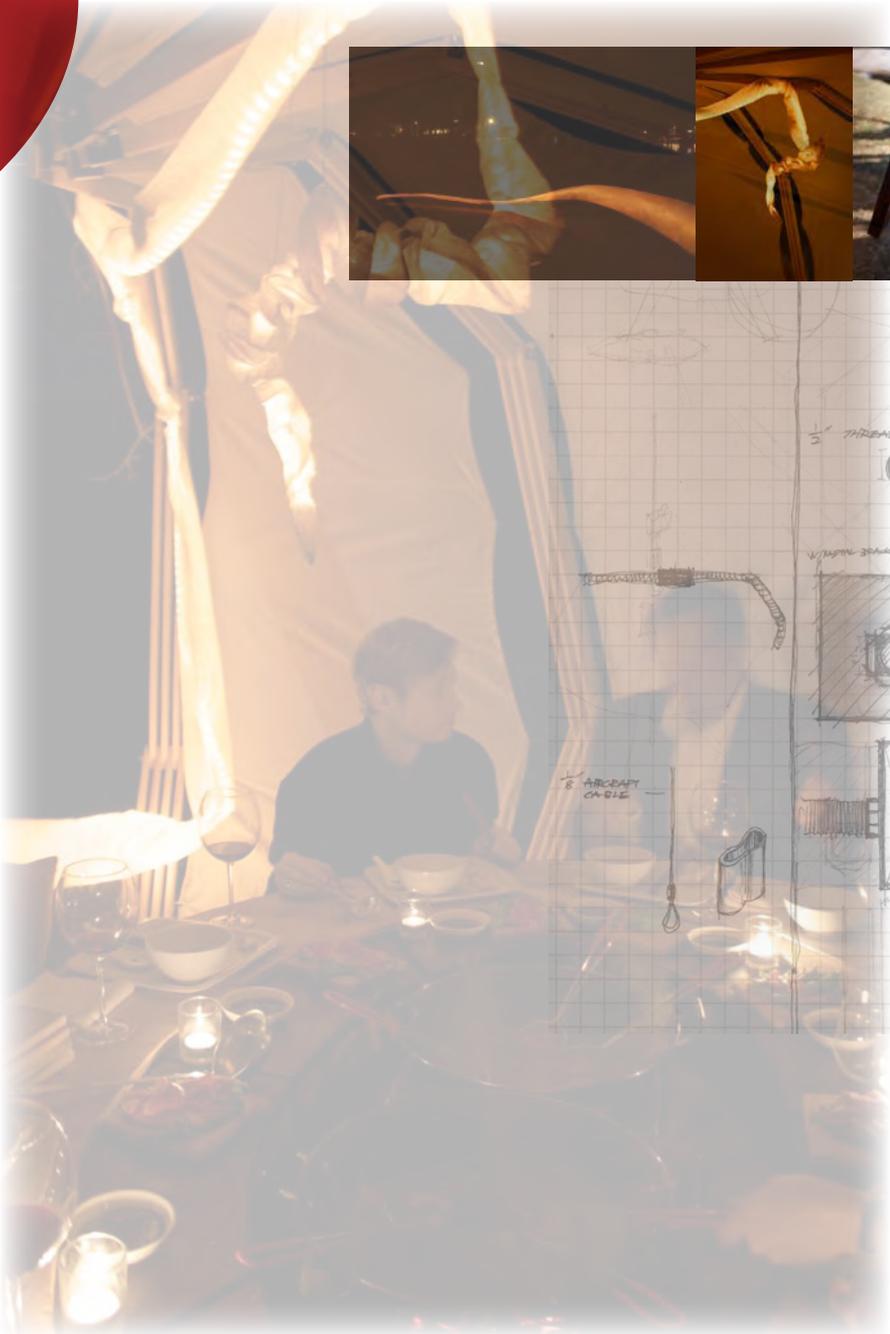
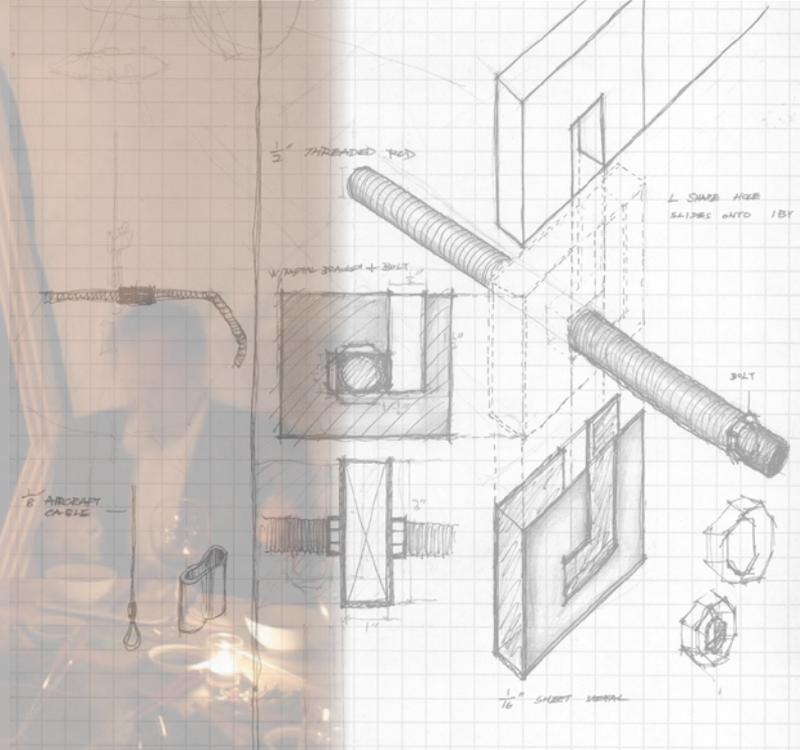
**Design:**

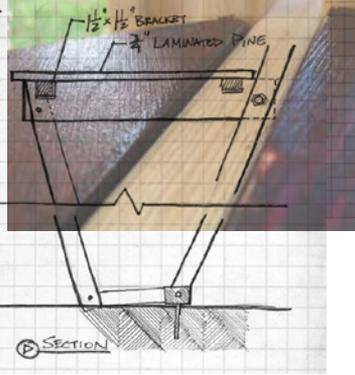
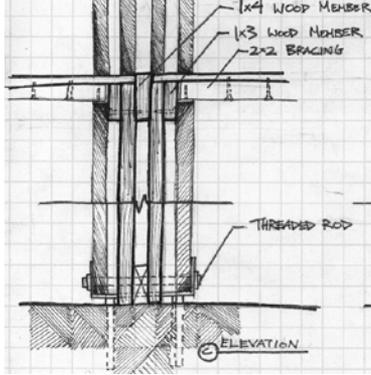
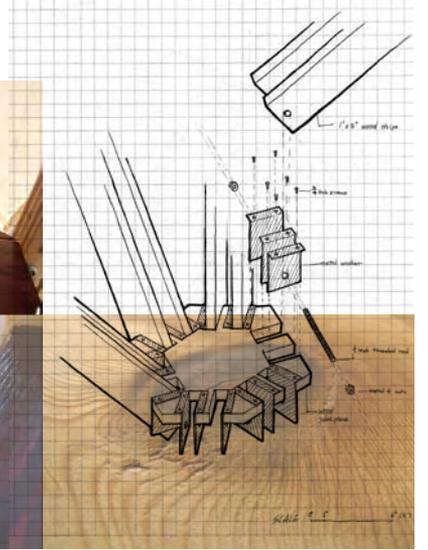
Our group has decided work with the form of the tree to establish an intimate experience for our pavilion. The inspiration for our design is a glowing lantern, providing warmth and intimacy.

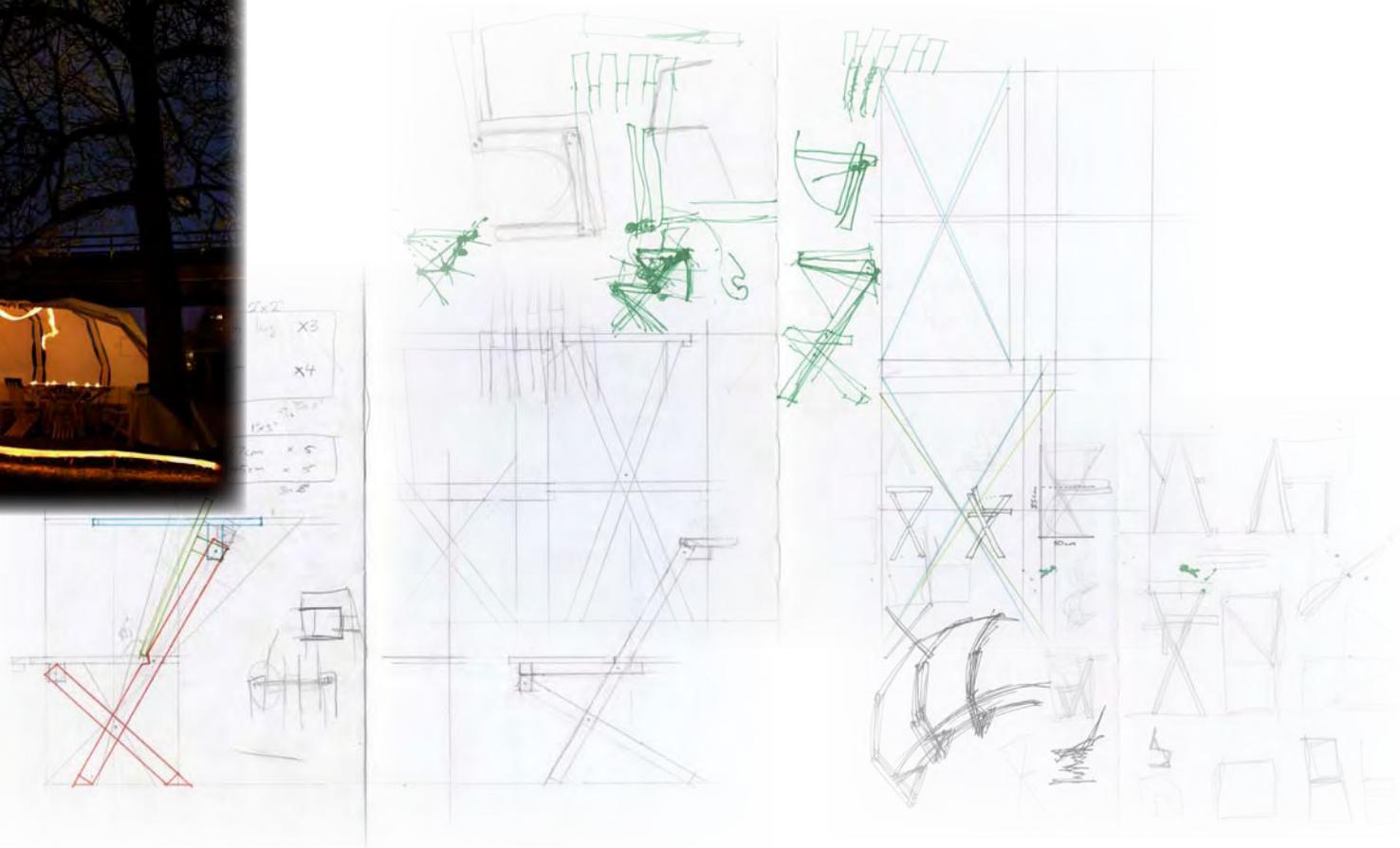
The orientation of the pavilion responded to the direction of the prevailing winds and the concerted attempt to focus the occupants' visual attention down stream towards the most favourable view. The temporary pavilion is designed be easily reassembled elsewhere after the festival. The entire structures can be loosen and folded to fit into a car trunk.



The design proposed a tapered elliptical plan, partly covered by a dome structure that sprouts from the base of the tree. This sheltered element is contrasted by a thin glowing ribbon rising from the ground and becomes the light in the half-dome. The ribbon would provide a subtle entry into the site and help integrate the heavier dome structure with the tree.







# Bookstore - The Stage

History Specialized Bookstore



**Year of Study:** Second Year Undergraduate Study  
**School of Study:** Azrieli School of Architecture and Urbanism  
**Instructor:** John Cook

### Site Location:

Dalhousie & Clarence, Downtown Ottawa.

It is on a narrow site between two buildings located in downtown Ottawa, with one side against the store next door, and backed to a brick wall.

### Objective:

Design a bookstore selling specialized books on student selected topics. The objective is to gain better a understanding of architecture design through thorough site studies and to work with both public and private spaces in design.

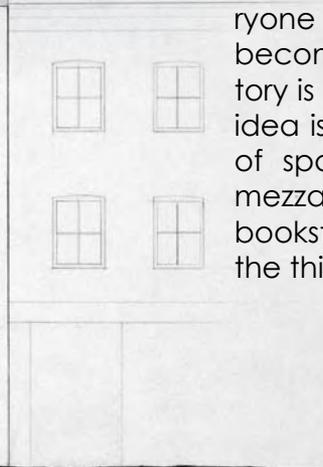
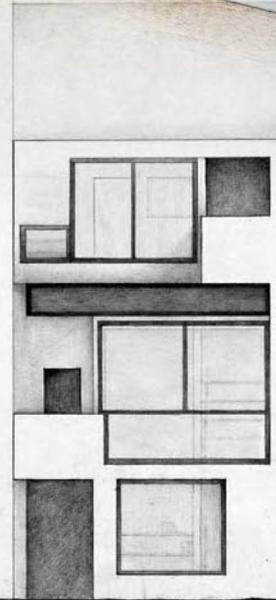
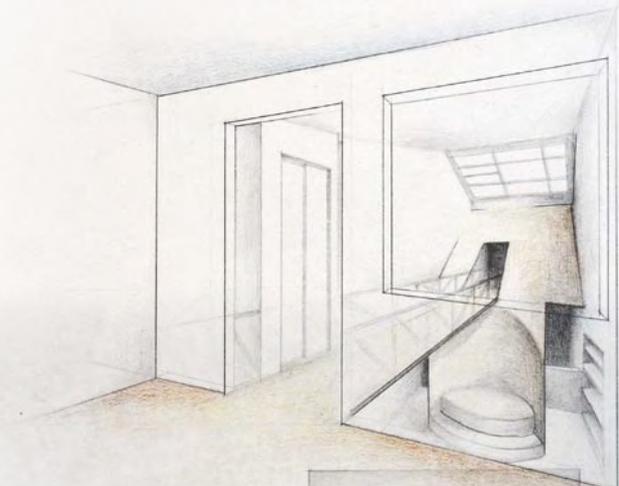
### Programs:

This design is a small bookstore for historical books and a private house for the store owner, with a studio.

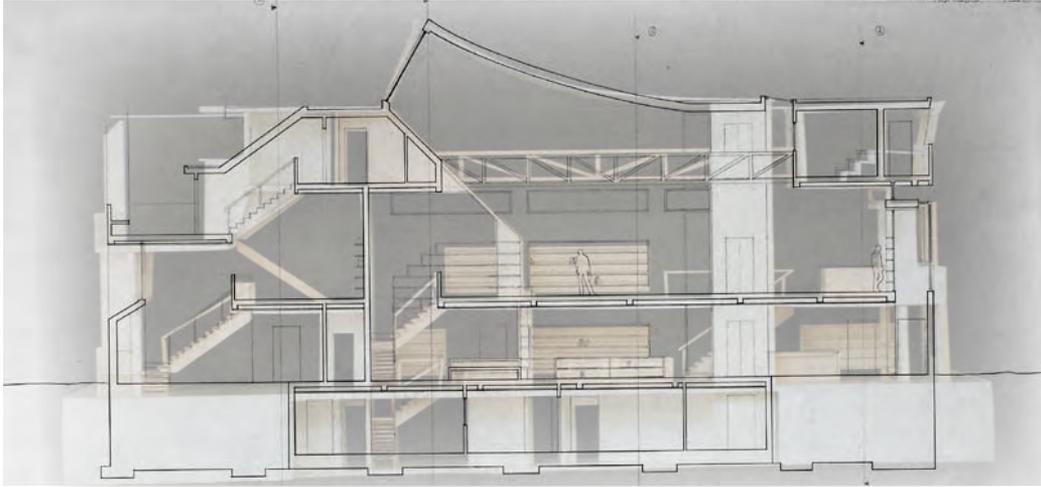
### Design:

This project is located in the oldest neighbourhood of Ottawa, with a dramatic history of immigrants, fires and political wars.

The approach of this design was to put the dramatic neighbourhood in a stage set, and everyone who enters here and animate the space becomes a player in the play. It is the idea that history is a drama, and everyone has a role in it. This idea is carried out through designing relationship of spaces: double-height spaces, over-looking mezzanine, balconies, and a bridge through the bookstore to connect the two private spaces on the third floor, the studio and house of the owner.



View From Studio To Bookstore



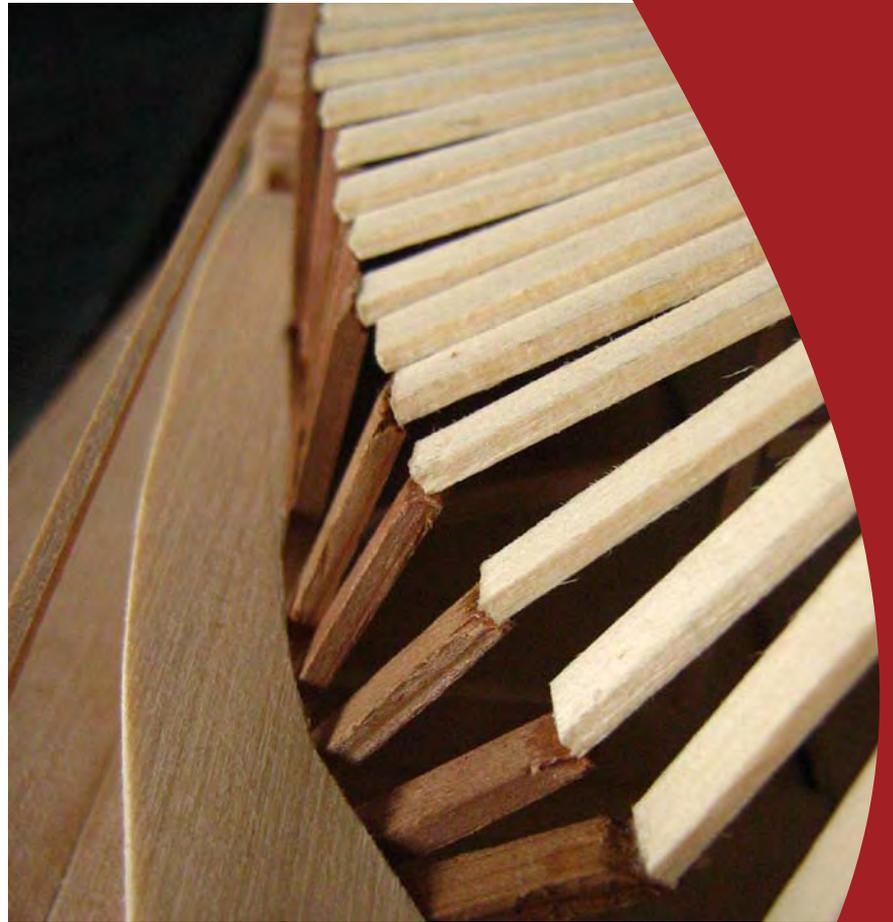
Top: Longitudinal Section  
Bottom: Model Details





# Dance of Wall

Waterfront House Design for a Musician



**Year of Study:**

Second Year Undergraduate Study

**School of Study:**

Azieli School of Architecture and Urbanism

**Instructor:**

John Cook



### **Site Location:**

Hypothetical site 5m wide by 60 m long, oriented north-south on a waterfront site with a slope of 3 m over the entire length

### **Objective:**

The goal of the Wall House exercise is to explore the role of the wall as an architectural element which acts as both barrier and connector, a plane that dictates the architecture of the house and the lives of those who dwell within.

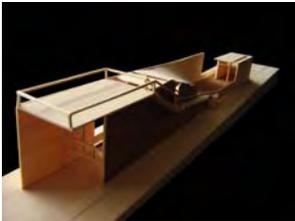
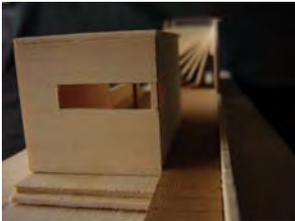
### **Programs:**

This design is private weekend retreat house for a musician. The project will also include a studio space for the musician to practice and compose.

### **Design:**

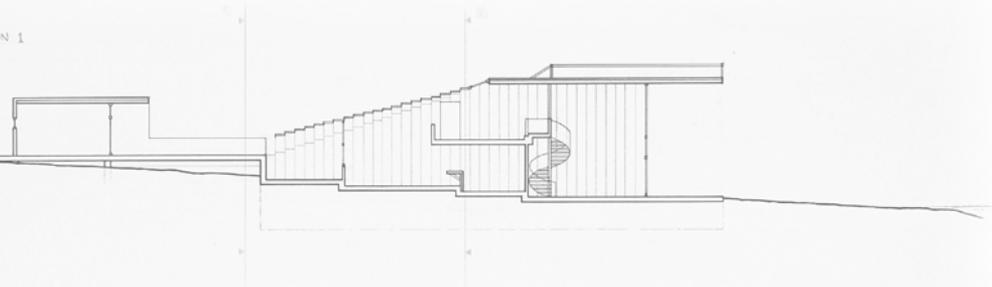
The house is designed to create a promenade experience, accommodating the shape of the site. The design challenges the definition of walls, floors and ceilings. With a gentle twist, the wall gradually turns into the ceiling and the floor turns into the wall as one proceeds into the promenade. This interesting feature acts as a smooth transition from the outdoor to the indoor spaces, and as a natural division of the public and private entrances of the house.





SECTION 1

1/1 Section 1

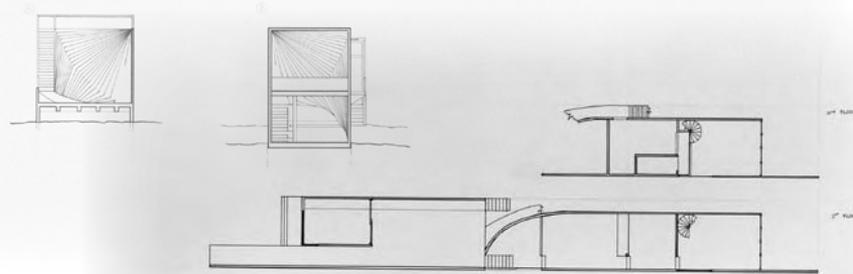


SECTION 2

2/2 Section 2



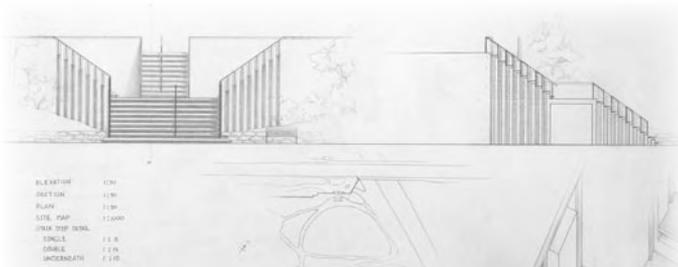
CROSS SECTIONS



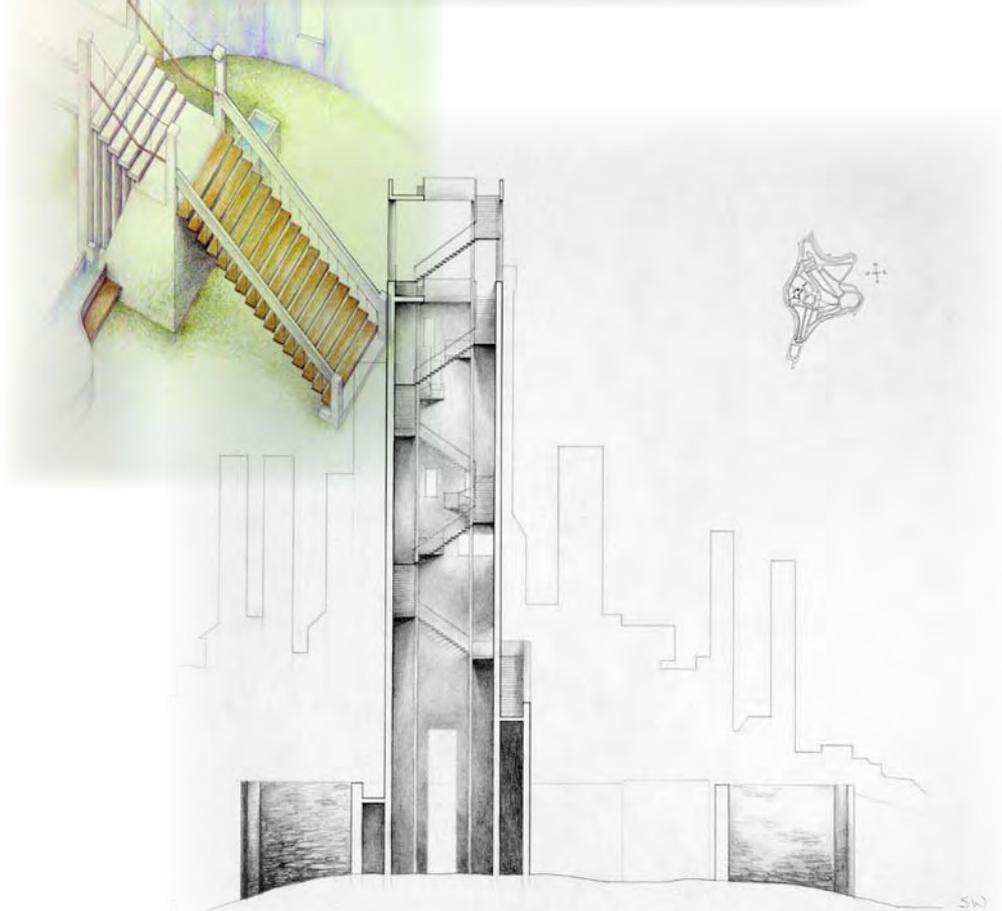
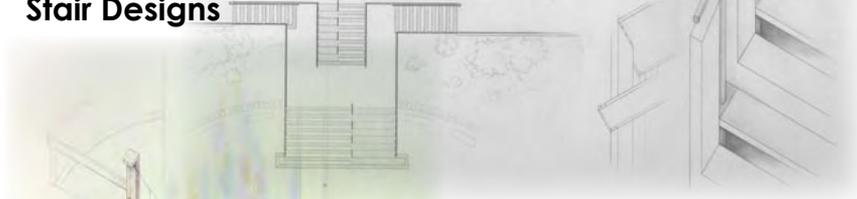
# Minor Designs & Studies



Ottawa Rideau Canal Water Taxi Station Design



## Stair Designs



## Tower Design

Sited in San Gimignano - The town of Medieval Towers

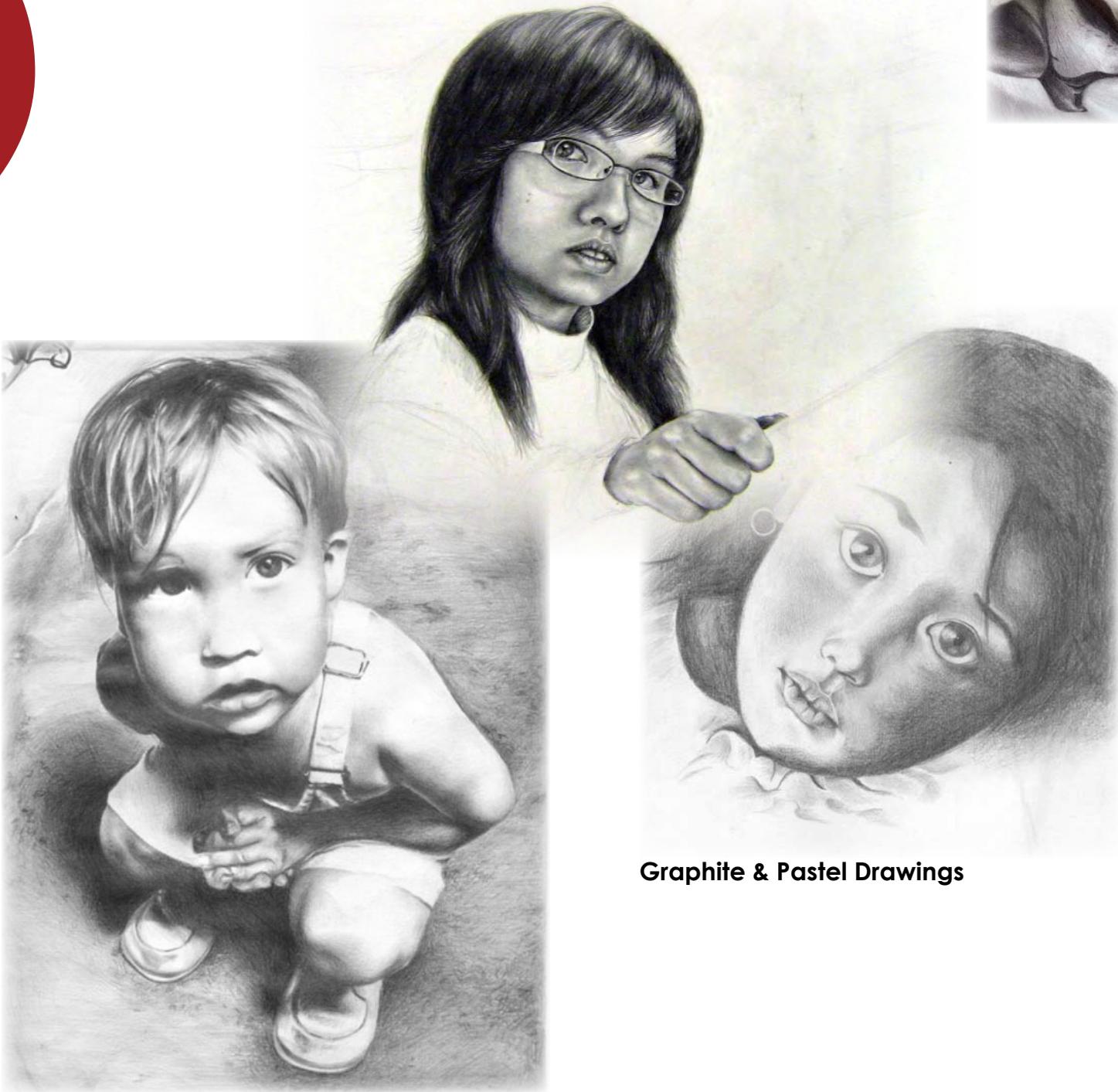


## House Design

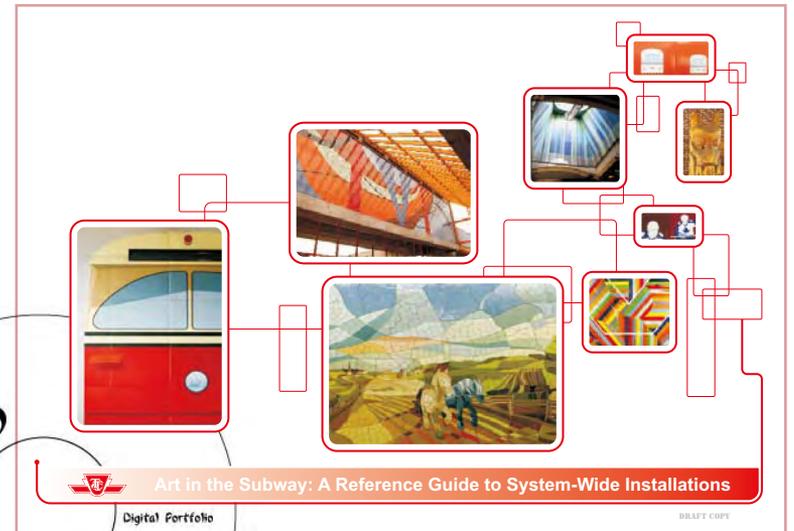
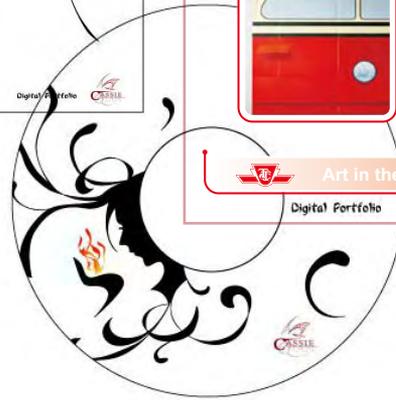
From a given sectional drawing

# Drawings & Digital Works





**Graphite & Pastel Drawings**



## Vector Layout Designs

Software: Illustrator & InDesign



## Image Manipulation

Software: PhotoShop & FormZ

