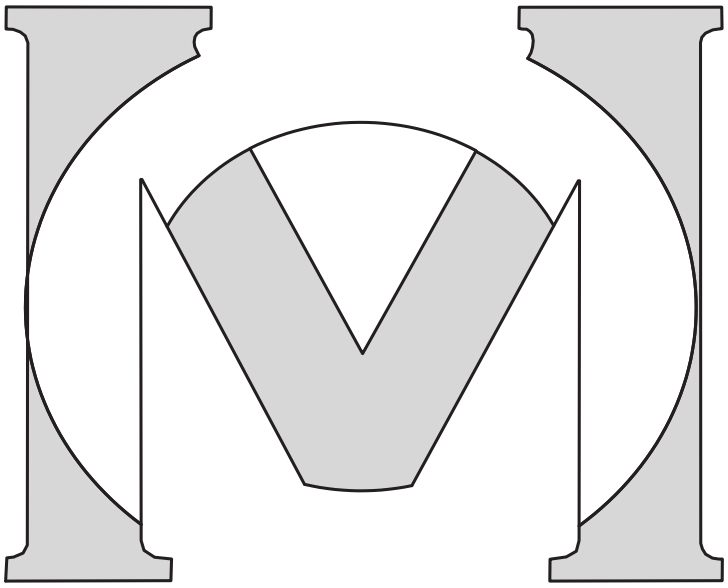


Marcelo Orrego

Bachelors Portfolio

Marcelo A Orrego Cuenca

CONTACT

347- 932-0398

marceloorrego14@gmail.com

Bronx, NY 10461

CAREER OBJECTIVE

CONTACT Motivated student with excellent communication and interpersonal skills looking to gain valuable experience in a professional setting. Reliable worker with excellent communication, time management, and computer skills. A driven and detail-oriented individual with a desire to use analytical and problem-solving skills to meet goals.

EXPERIENCE

December 2022 - February 2023
Construction Worker
Private Company, New York, NY

- I had the opportunity to work in the construction site, doing carpentry finishes such as cabinet building, as well as installing doors, locks and doing floor finishes.

June 2018 - September 2022
Lifeguard
New York City, Bronx, NY

- Worked as a City Lifeguard for 5 years making sure people safely enjoying of the city pool where was assigned
- Had the pleasure to interact with people, and make sure they felt safe and listen to.

April 2019 - June 2021
Iowa Sports Management, Iowa Sports, New York, NY

- Worked as a front desk worker as well as a Lifeguard for this company
- Made sure people swimming and using the facility felt safe, and had a clean environment to exercise.

EDUCATION

Expected Graduation May 2023
Bachelor Of Science (B.S.) In Architecture Candidate
University at Buffalo, Buffalo, NY

Completed coursework towards Coursework Construction TechnologyEnvironmental Systems
US

SKILLS

- AutoCad
- Measurement and Calculation Accuracy
- OSHA Standards and Codes
- Adobe Program
- Rhinoceros
- Revit
- Lumion

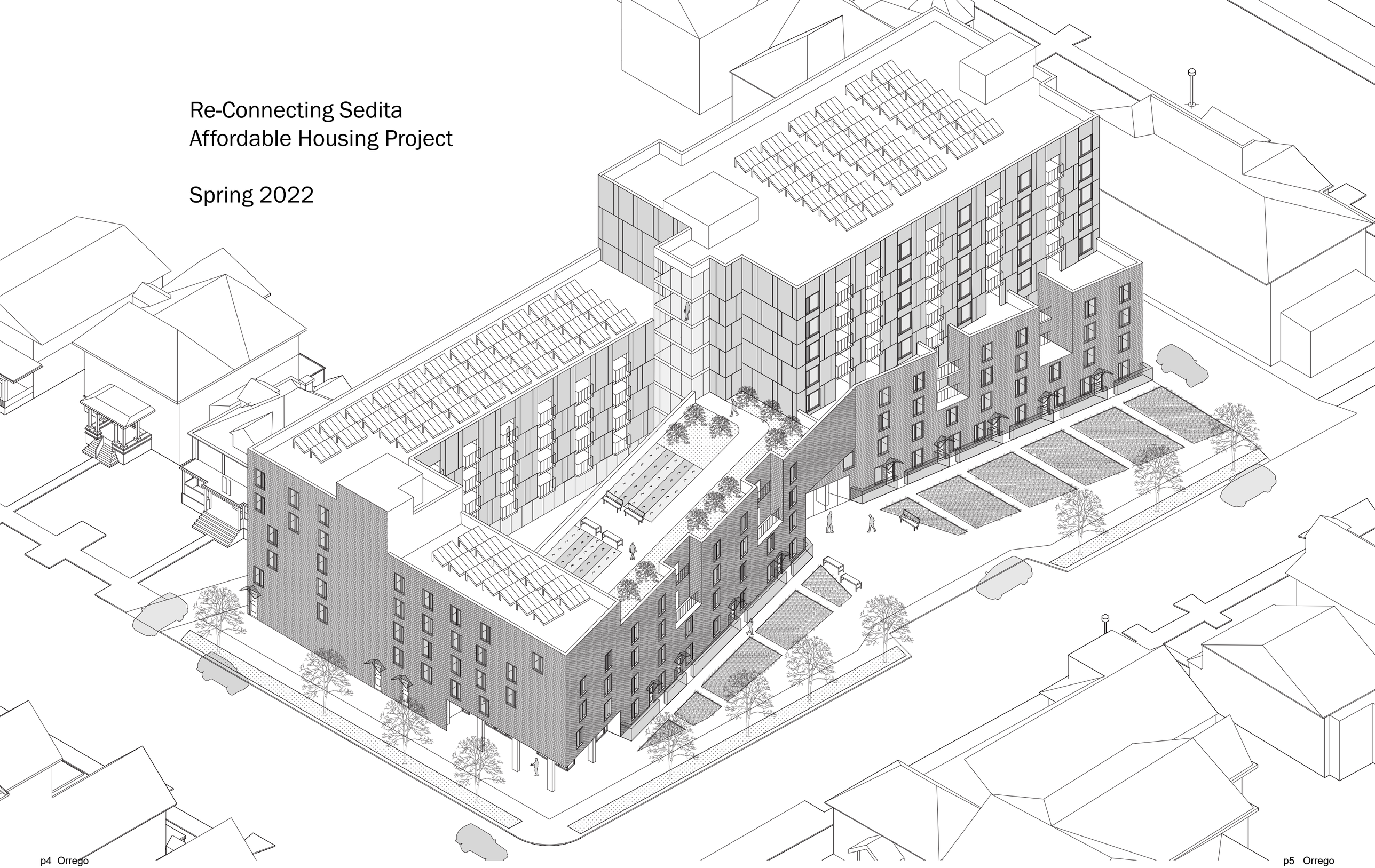
CERTIFICATIONS

- OSHA Safety Training 40 Hour Certificate

Table of Contents:

Re-Connecting Sedita
Affordable Housing Project

Spring 2022



Project 3: Re-Connecting Sedita

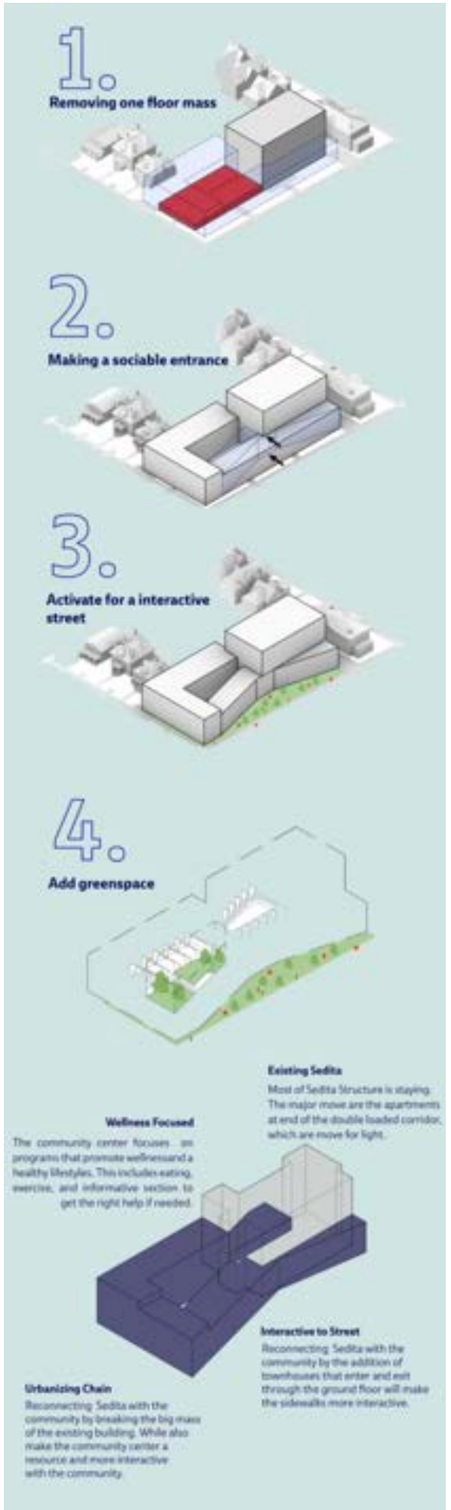
Fall 2022

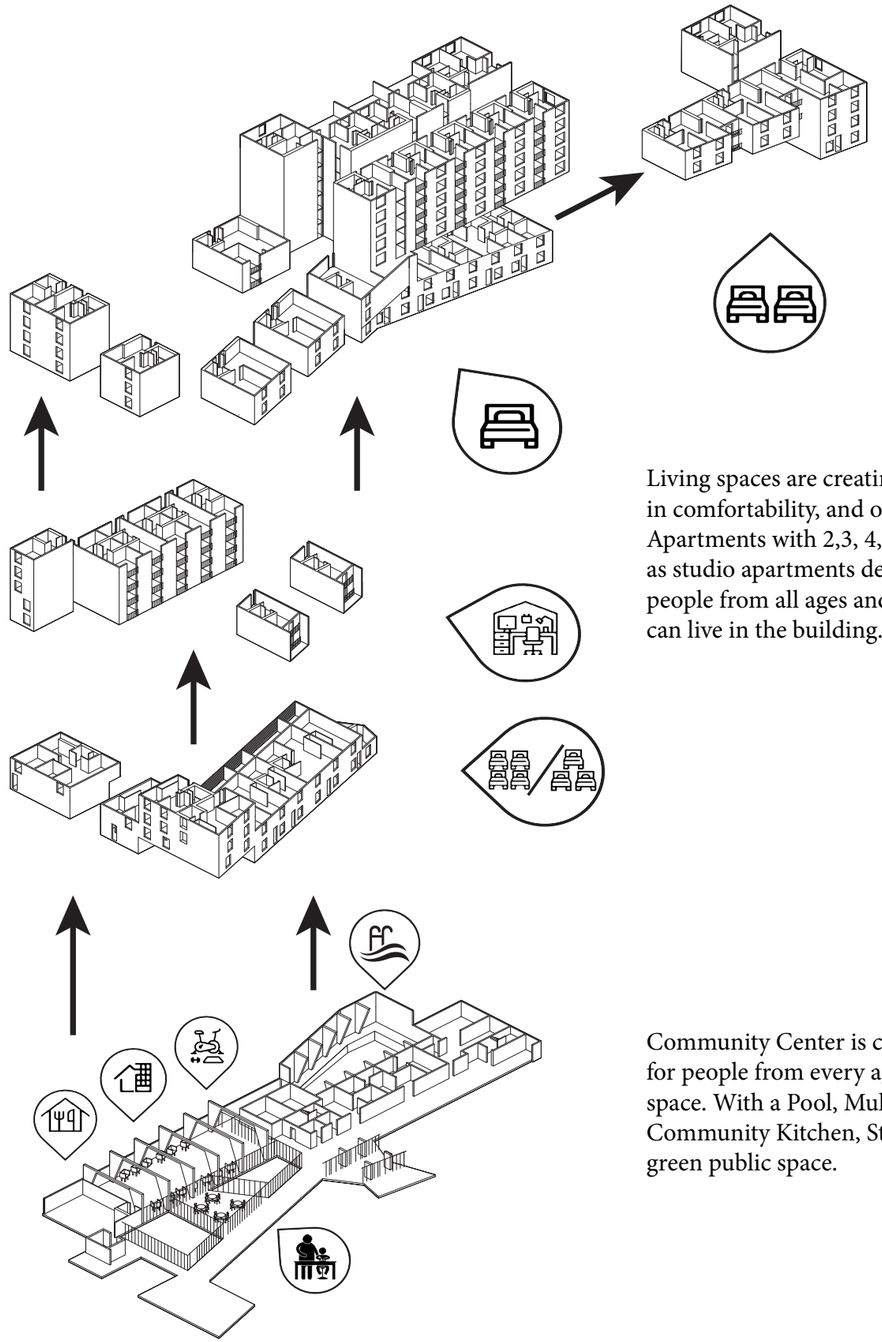
Professor: Erkin Ozay

Partner: Dariel Paulino

At the start of the semester, the studio as a group did a research on affordable housing coming to a conclusion that the Buffalo area lacks affordable housing. The group project Re-Connecting Sedita follows the idea that to make more affordable housing, there is no need to destroy what is already there.

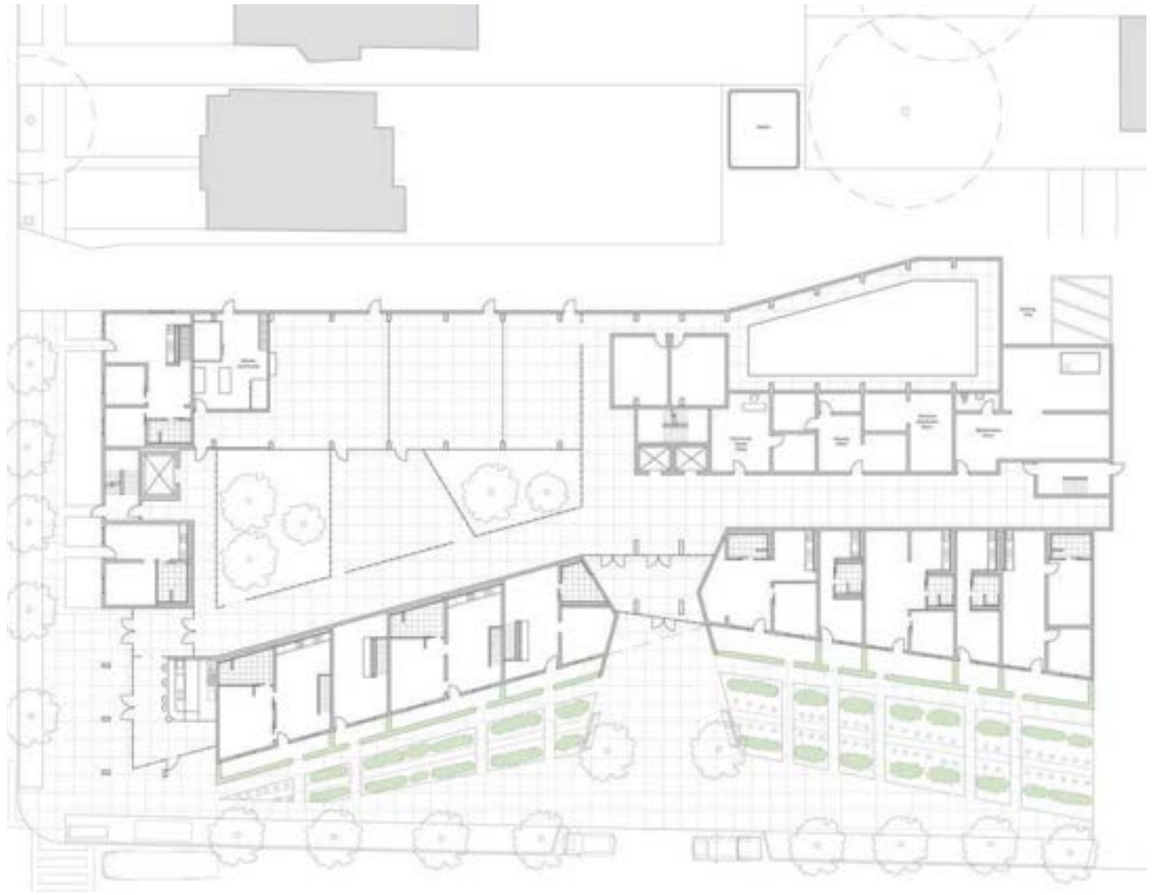
During the semester, we fix Sedita which is a existing housing project, we made sure major issues were solved and added 100 extra apartments considering the inclusion of more public areas to bring residents together, as well as addition of green spaces, better suited egress and more comfortable spaces for the people. Different unit types as well as the introduction of activities in the space where there was once a community center allow for a more active community. Lastly the addition of solar panels, a water collection system, gardening and spaces that are exposed to sunlight make this a housing which is both affordable to the Buffalo Community as well as comfortable and better for people of all age groups.



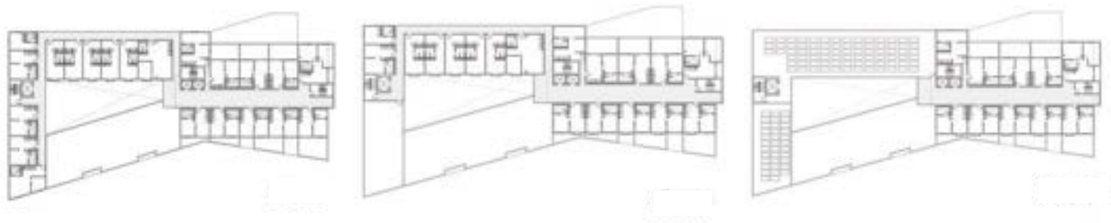


Living spaces are creating while thinking in comfortability, and opportunity. Apartments with 2,3, 4, bedrooms as well as studio apartments design to make sure people from all ages and all size families can live in the building.

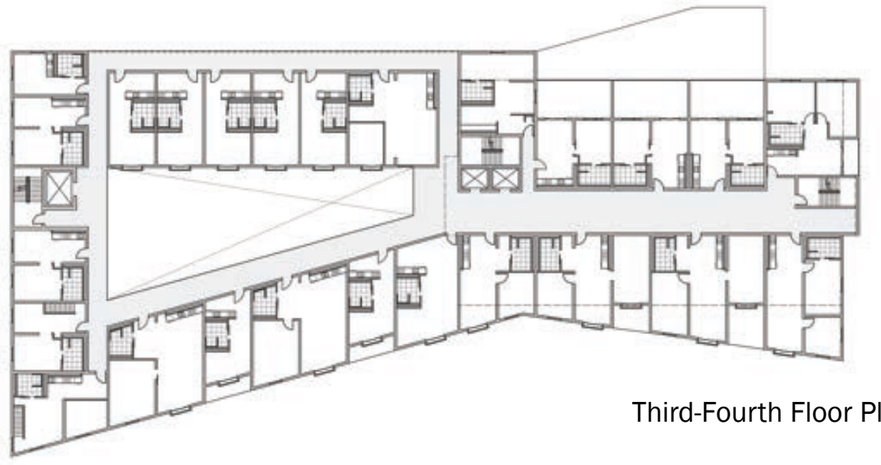
Community Center is created as a space for people from every age to use the space. With a Pool, Multi-Purpose gym, Community Kitchen, Study Space and green public space.



Site Ground Floor Plan

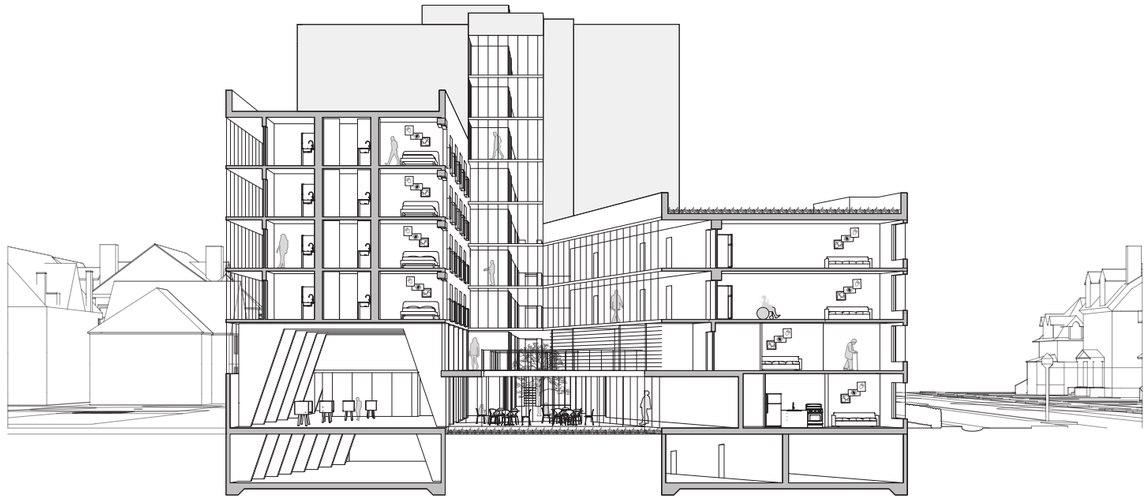


Fifth-Seventh Floor Plans



Third-Fourth Floor Plans

Second Floor Plan

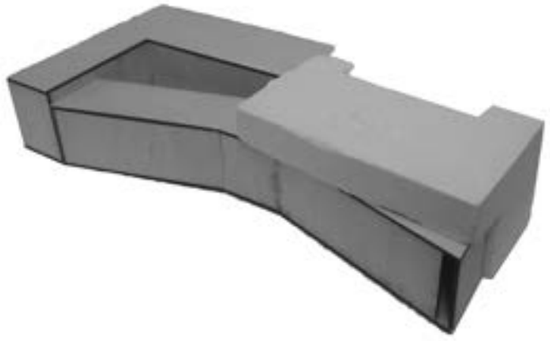


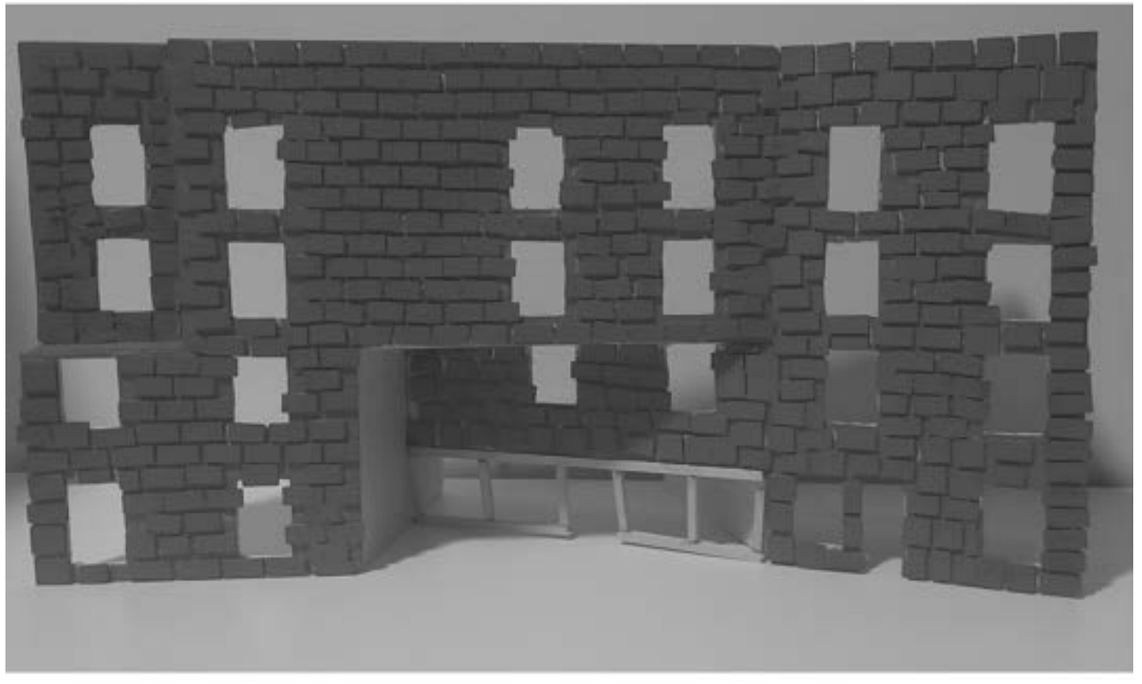
Section Perspective Drawing

Street Elevation

Street View Summer ST.

Street View Richmond Ave.





Sports Community Center
Spring 2022

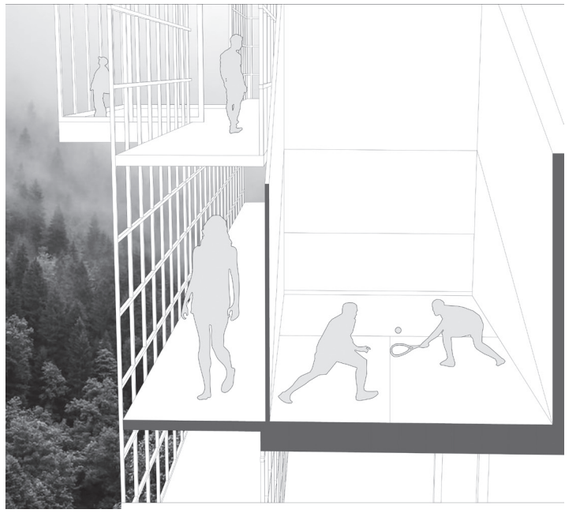
Project 1: Sports Community Center

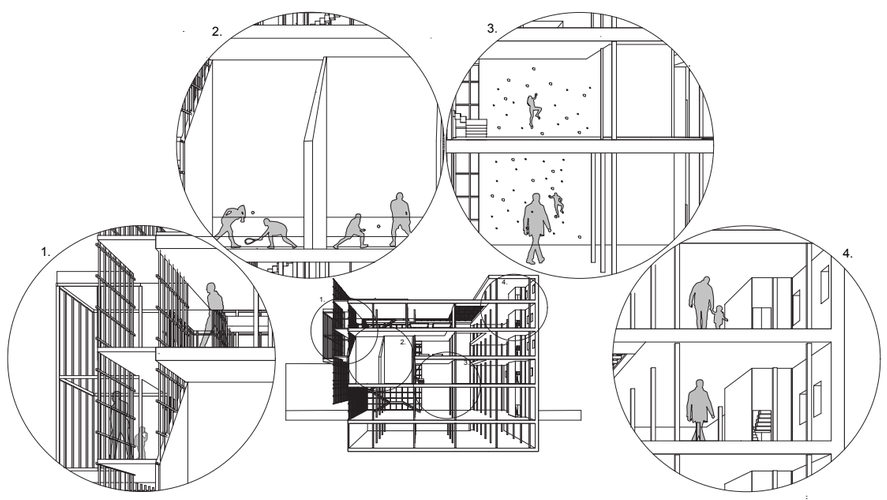
Spring 2022

Professor: Bradley Wales

The Sports Community Center is a project focused on the idea of attracting people to the space with the introduction of Sports. The grid system that takes part of the project allows for different types of sports to bring themselves into different spaces.

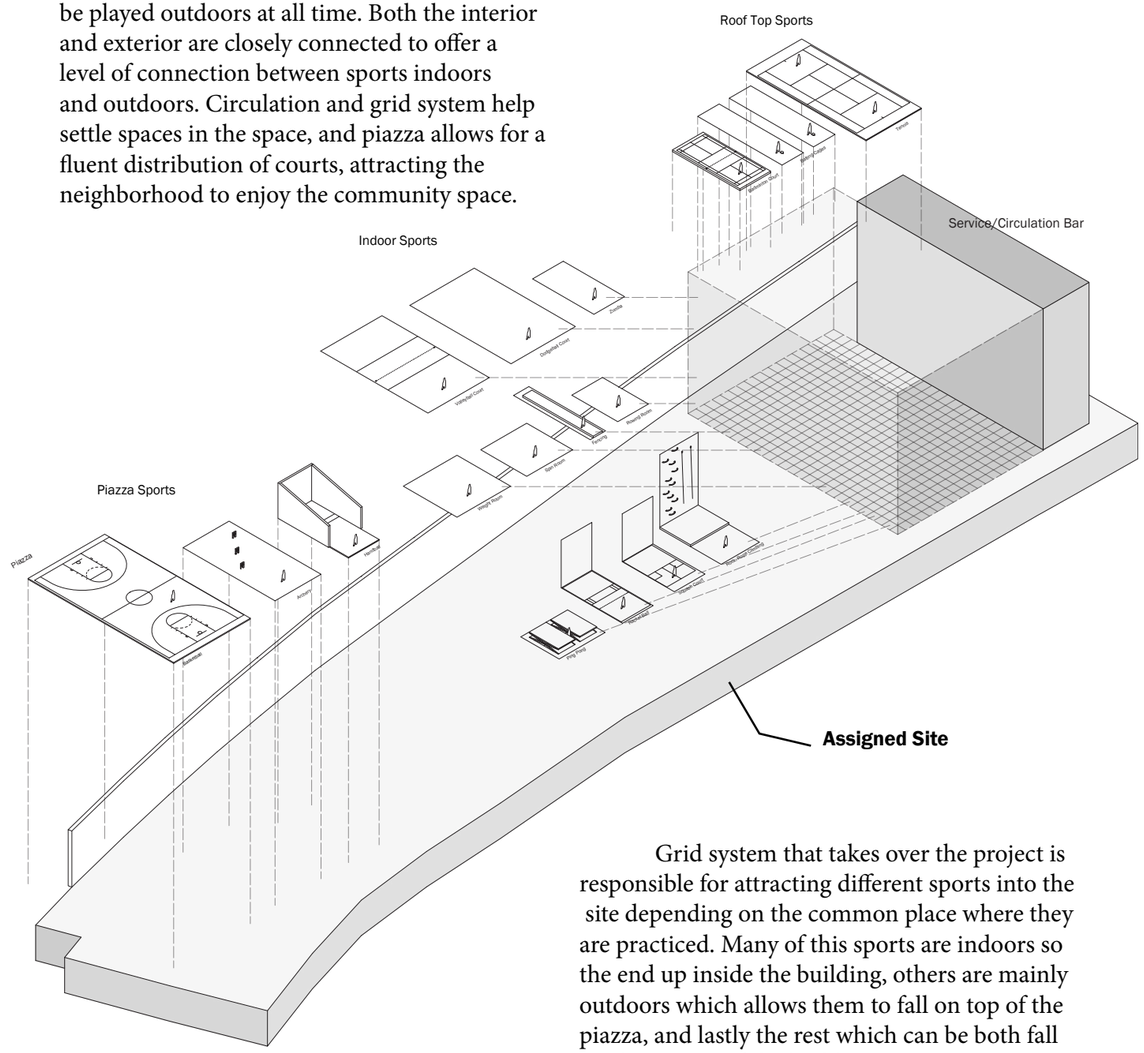
Following the 120 foot limitation set by the faculty, the interior space brings in sports that allow people to participate in them no matter the weather. The rest of the site is used to encourage people to use the exterior space left in the project. And the idea of introducing a service block is to allow for a separation between activities and private spaces such as egress and bathrooms. Lastly, a double skin facade is created to allow for easy circulation for the people in the interior as well as a clear view to the outdoors piazza.





Sports Organization Diagram

Site gives a limit of 120 feet for building space, in result, sports are distributed in terms of what needs to be indoors and what could be played outdoors at all time. Both the interior and exterior are closely connected to offer a level of connection between sports indoors and outdoors. Circulation and grid system help settle spaces in the space, and piazza allows for a fluent distribution of courts, attracting the neighborhood to enjoy the community space.

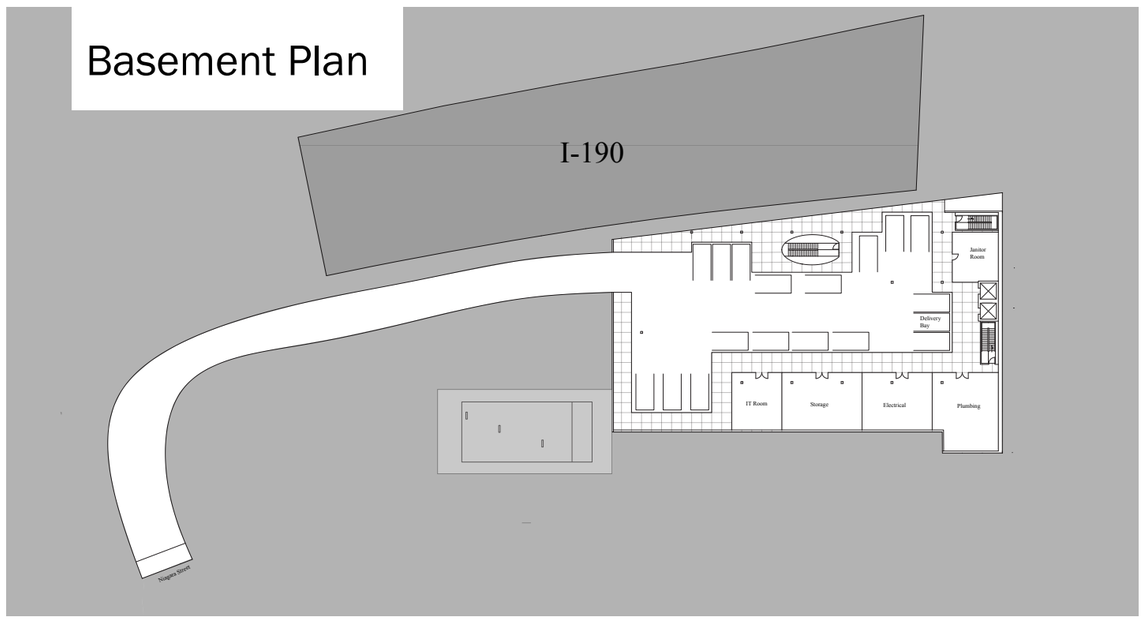


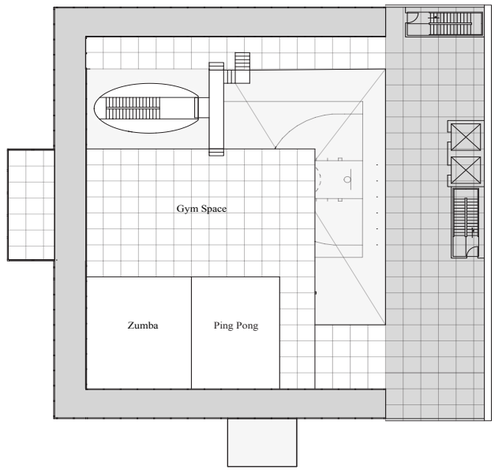
Grid system that takes over the project is responsible for attracting different sports into the site depending on the common place where they are practiced. Many of this sports are indoors so the end up inside the building, others are mainly outdoors which allows them to fall on top of the piazza, and lastly the rest which can be both fall in the terrace of the building.

Key:

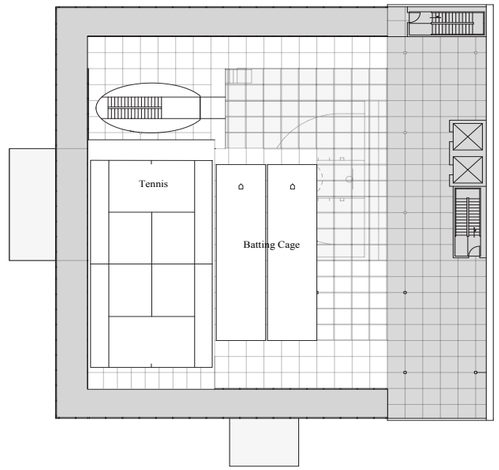
1. Basketball Field
2. Archery Field Underground
3. Lap Swimming Pool
4. Sprinklers
5. Safe
6. Main Core Stair

Site Ground Floor Plan

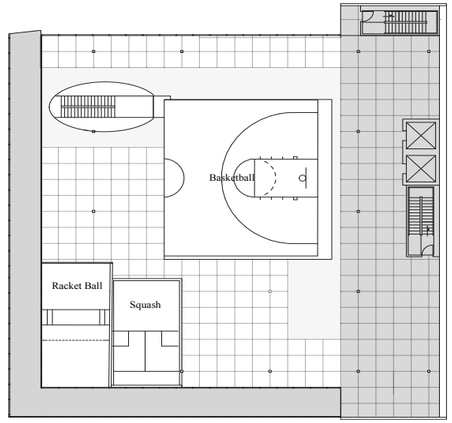




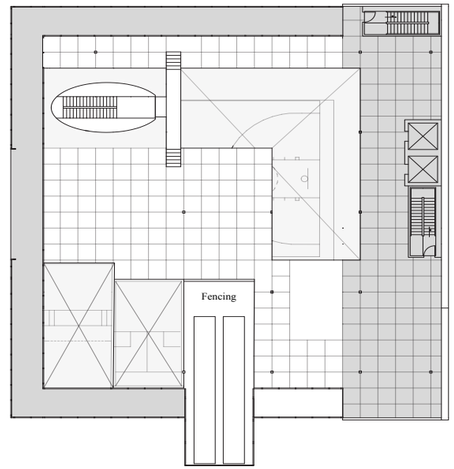
Fourth Floor Plan



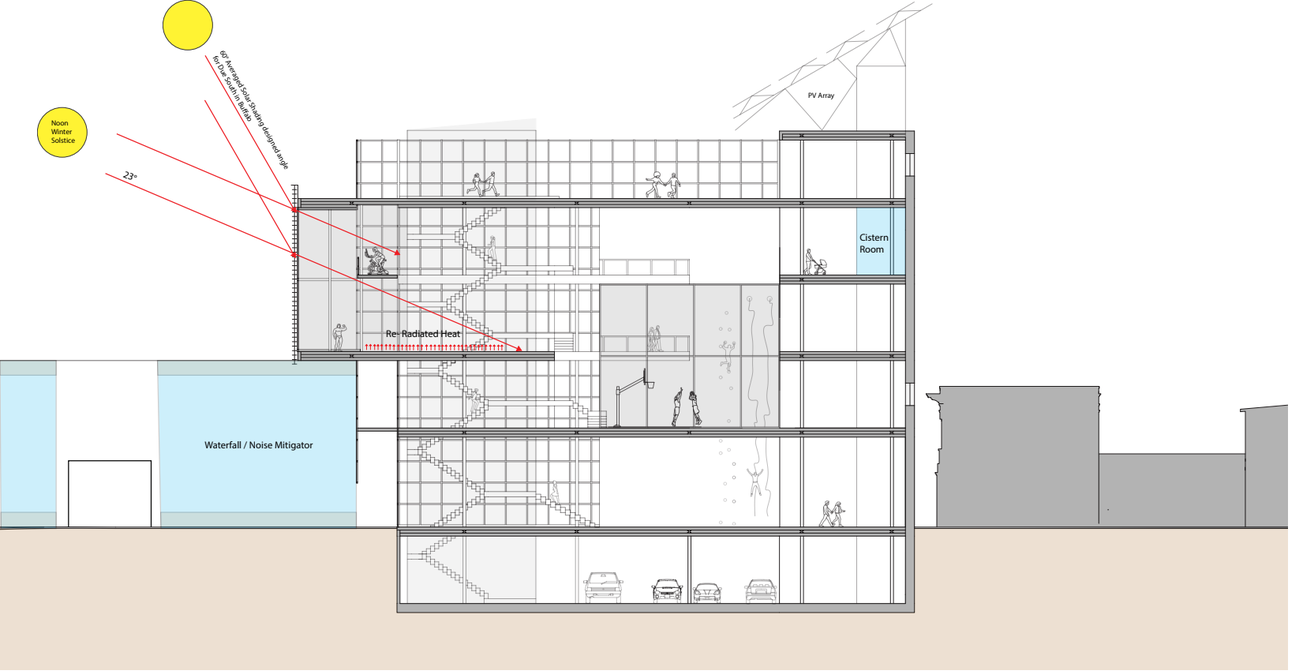
Fifth Floor Plan



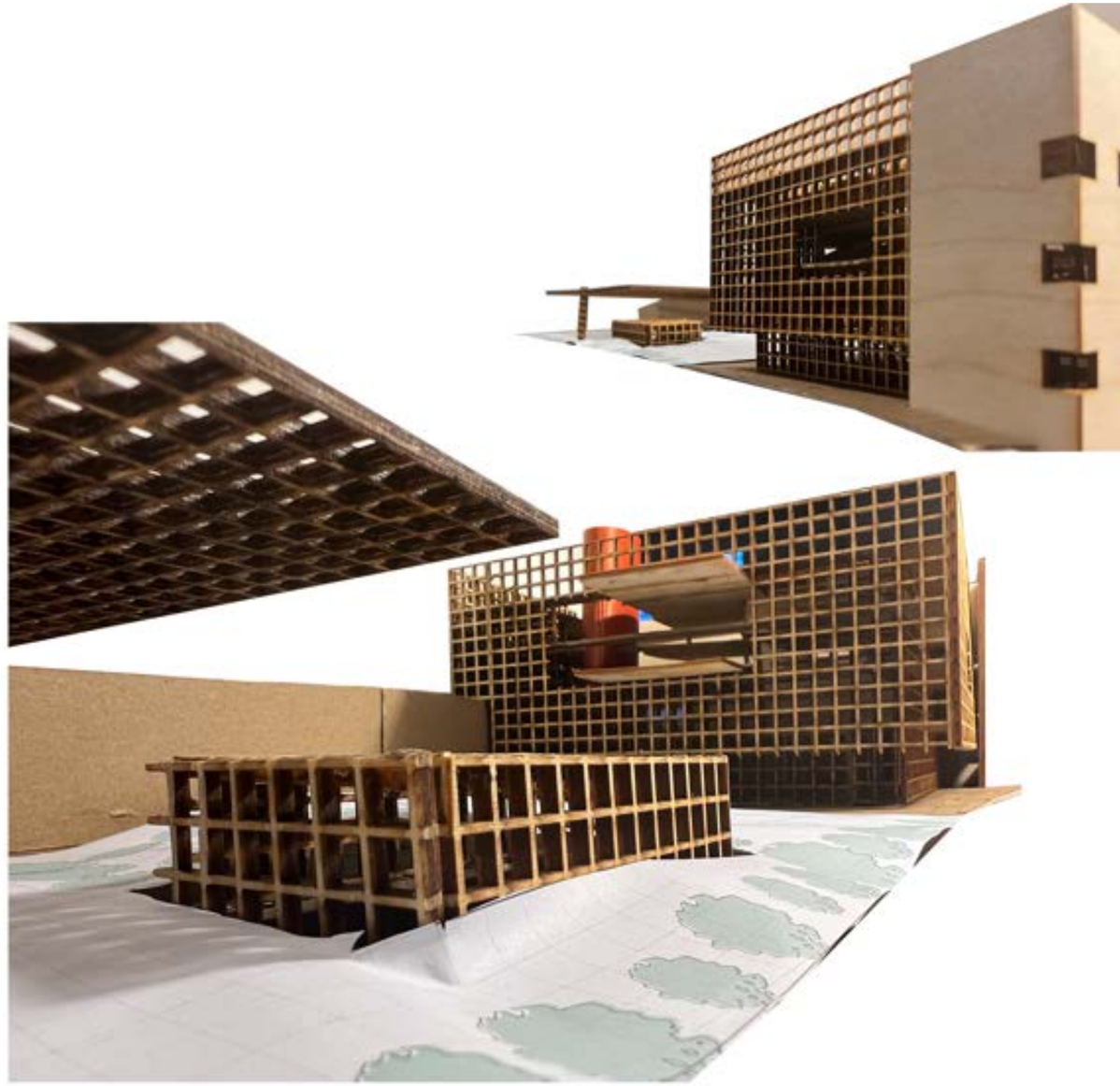
Second Floor Plan

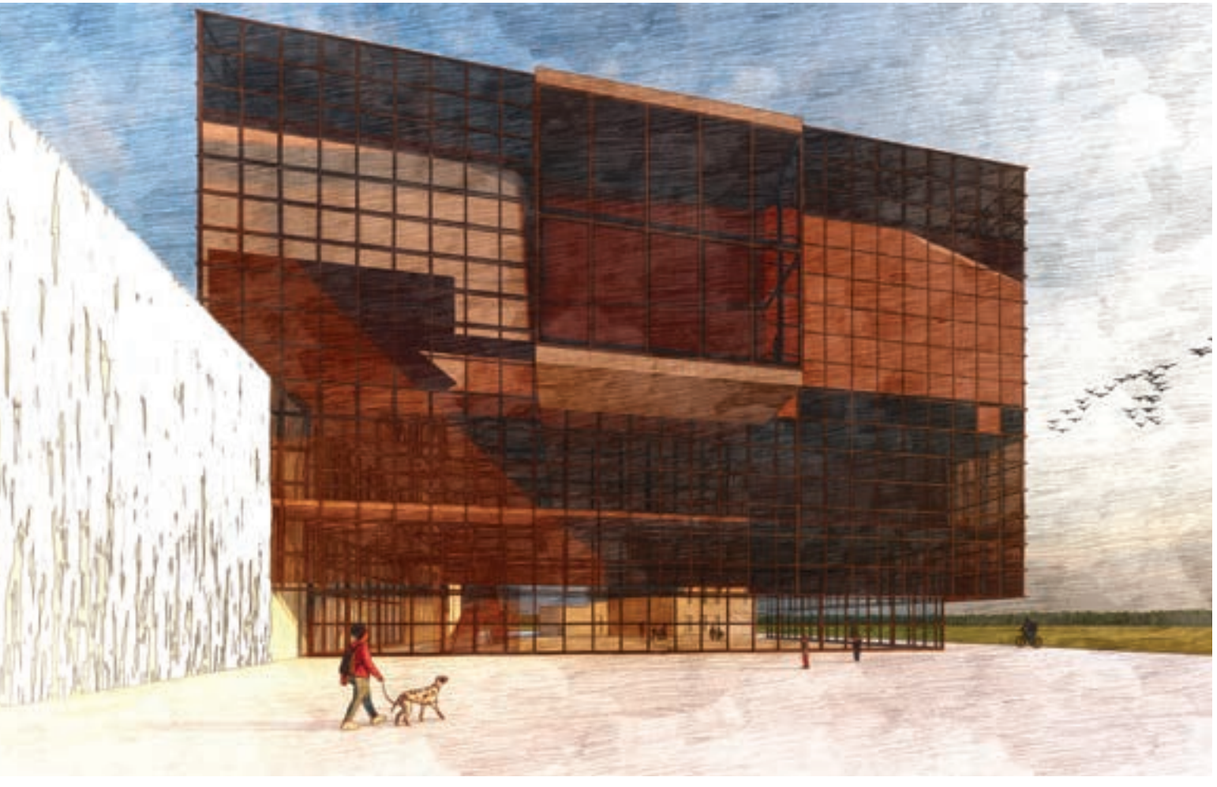


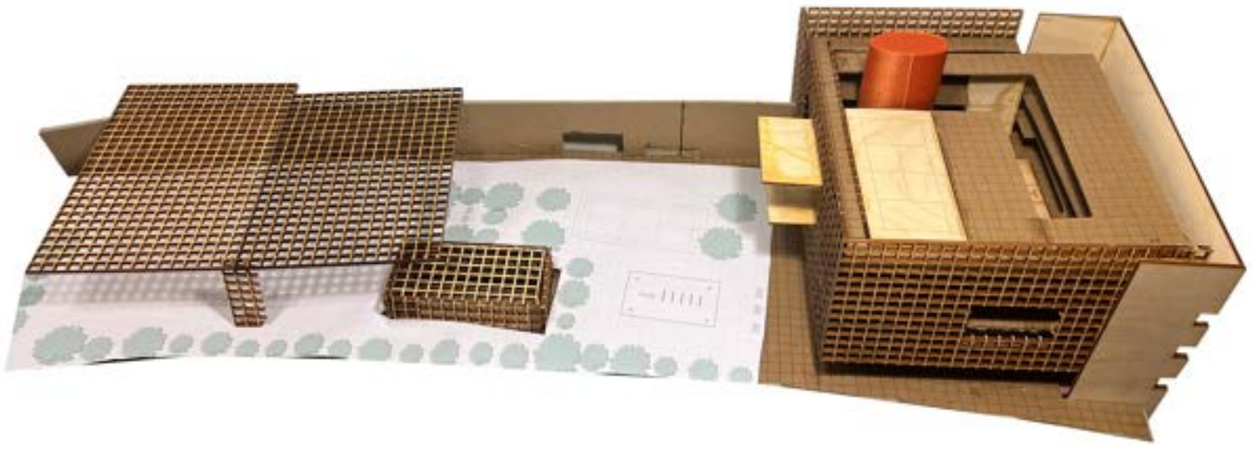
Third Floor Plan



Jogged Longitudinal Performance Section
Showing Passive Systems







Stretchy Boat-House
Fall 2021

Project 2: Stretchy Boat-House

Fall 2021

Professor: Elaine Chow

The Stretchy Boat-House is a place designed following the idea of creating a place in which boat building can be possible while other activities such as kayaking take place.

The name stretchy comes from the word stretched which is why the design tries to follow the idea of the outdoors skin following the interior skeleton of the building. Different spaces are created and some of the programs that come to be in the interior are exhibition spaces, a building shop as well as a Cafe, and a clear view to the local river.

The building in designed with exposed trusses that make it possible for the people in the interior of the building to enjoy looking at the skeleton of the building, this following the idea of man built boat which makes the skeleton of the boat visible when the people come into it.

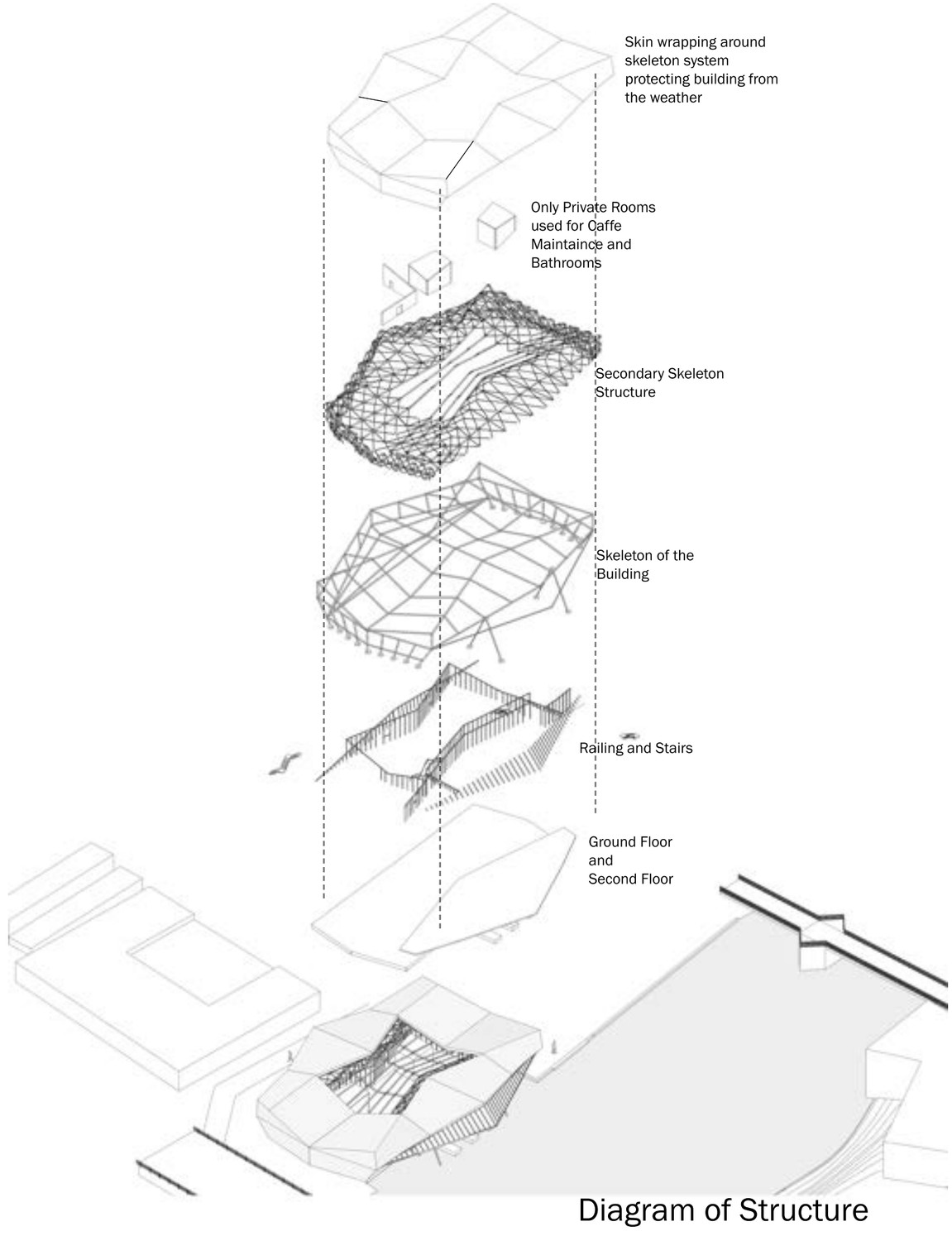
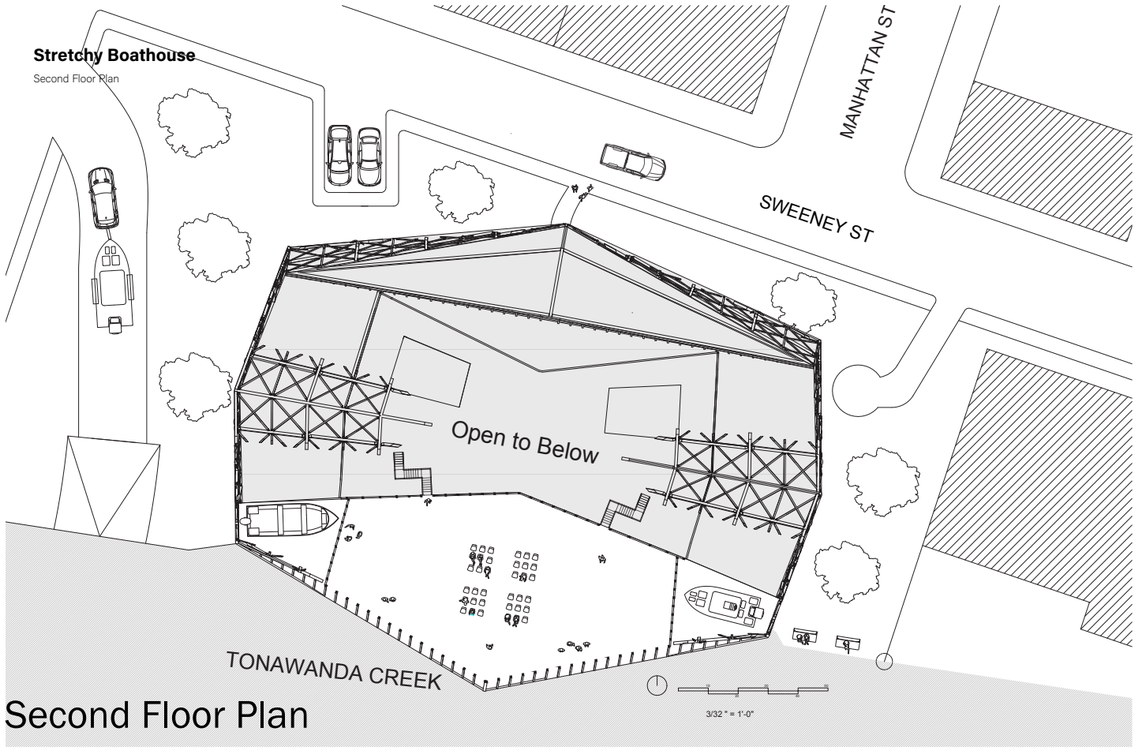
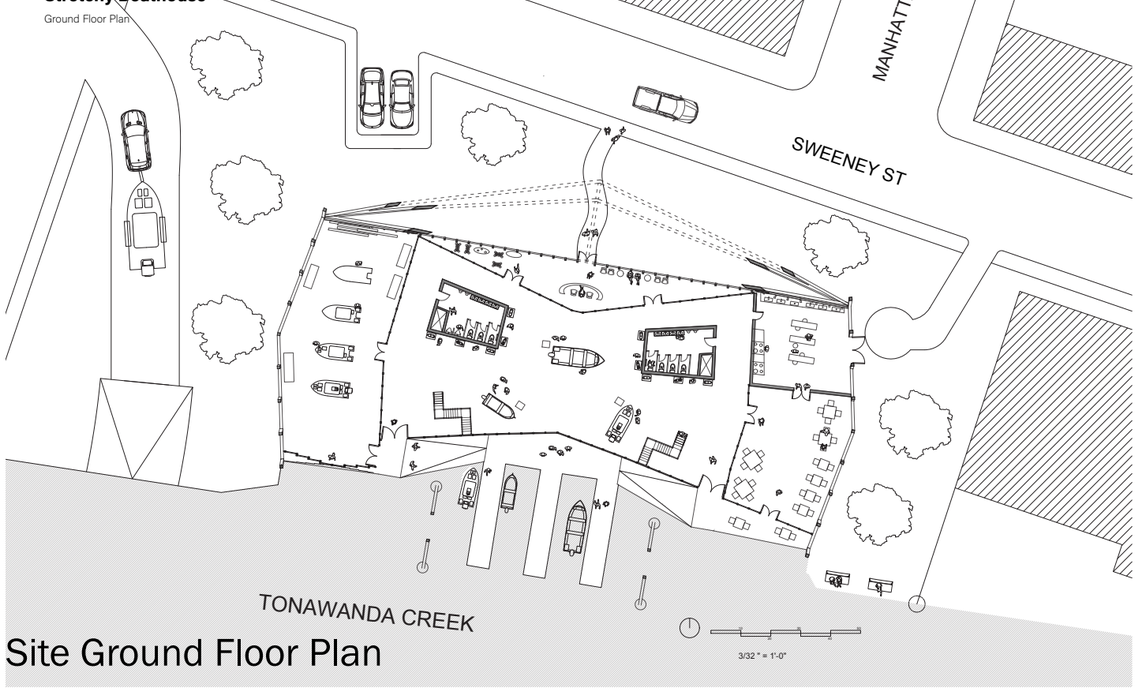


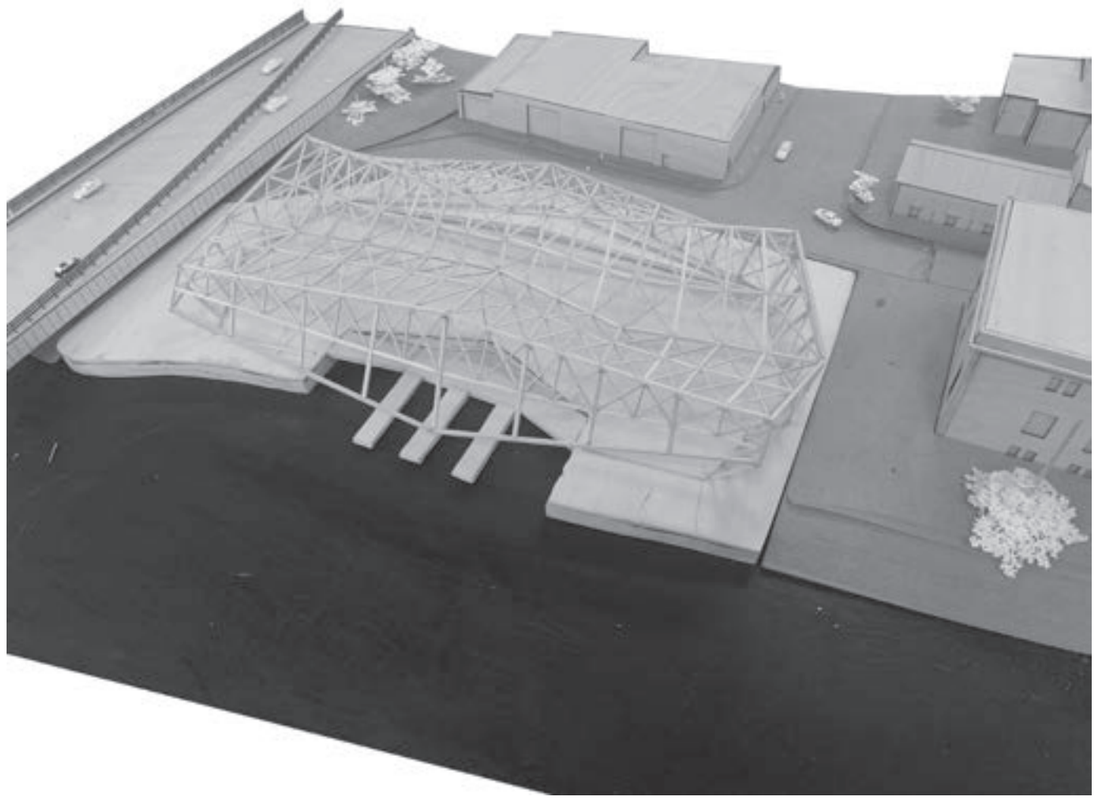
Diagram of Structure

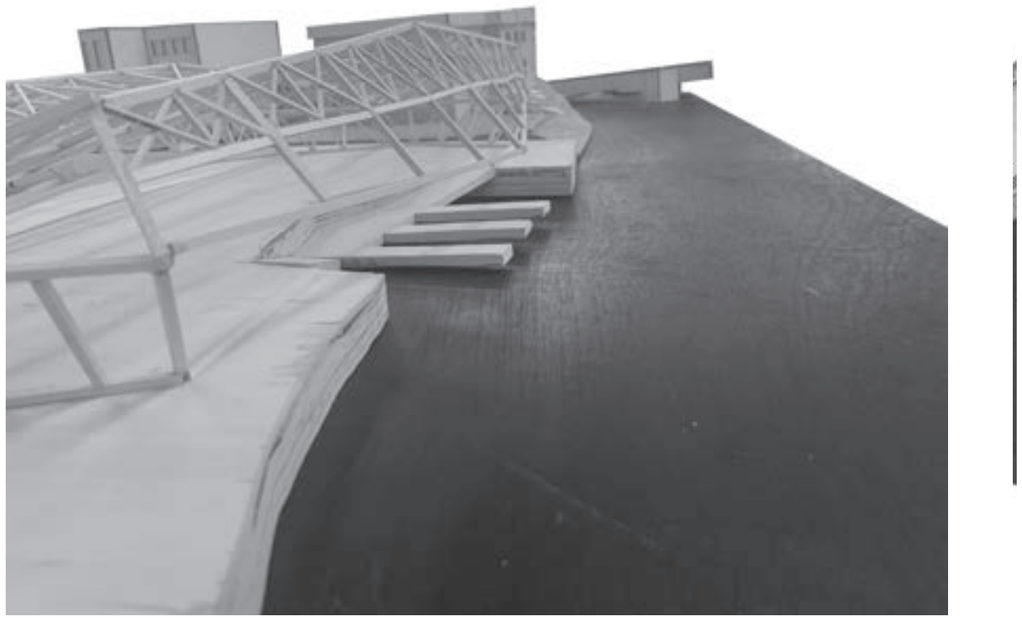


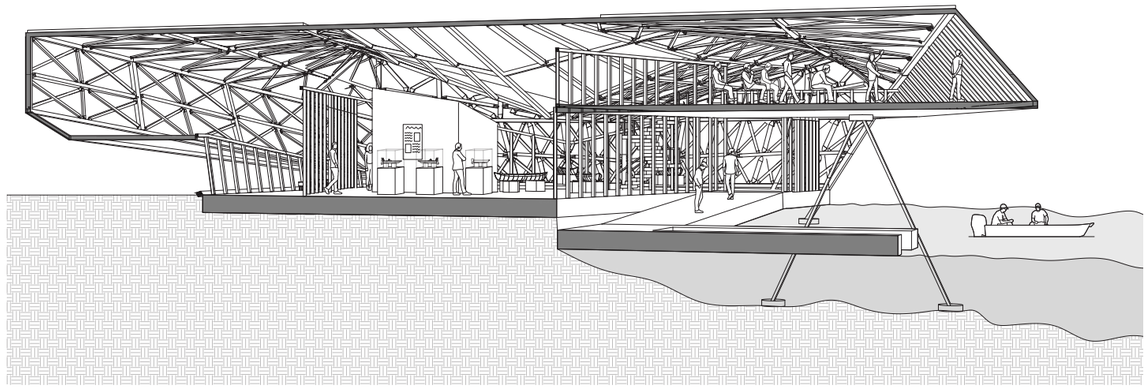
Second Floor Plan



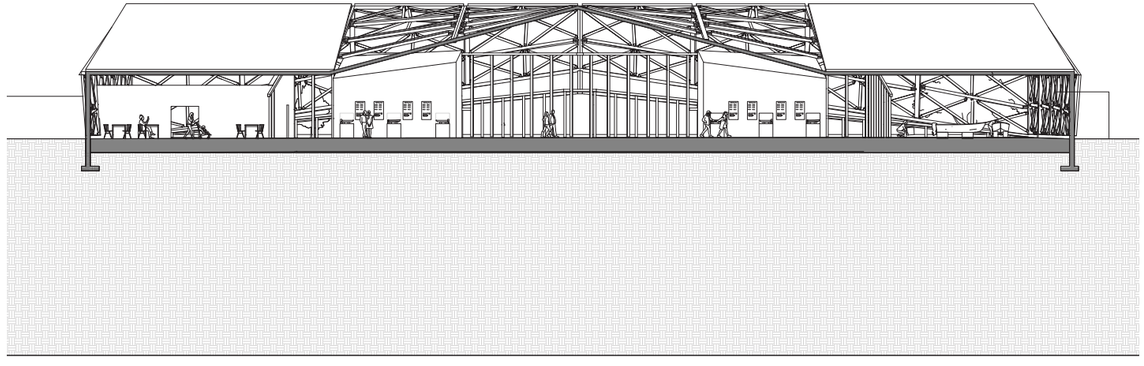
Site Ground Floor Plan







Section Perspective



Frontal Elevation

Following physical model was created as one of the main requirements of the final review presentation which was a model representing structure of the building and how it would fit in the assigned site.

For this model made by hand, I create the three different truss systems used by the structure of the building. I called this part of the model the skeleton which would be covered by a wood skin for protection against the weather, but the skeleton was designed in a way that it would serve as a boat, where all the structural part of the object is from the interior, and the exterior just keeps the water out. The main truss system is the one responsible for creating the overall shape of the building, the secondary truss system created divisions in which the direction of the skin changes angles, and the third truss system adds extra support to the other two bigger structures, adding stability to the structure in general.

SECTION
AXONOMETRIC

Project 4: Shizen Building

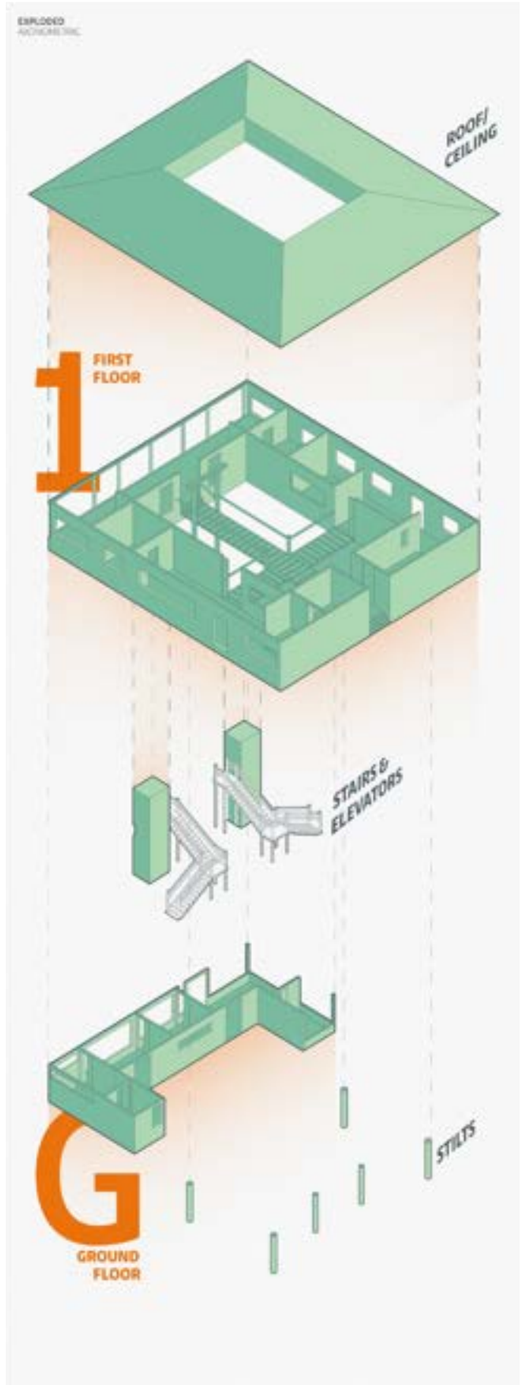
Fall 2021

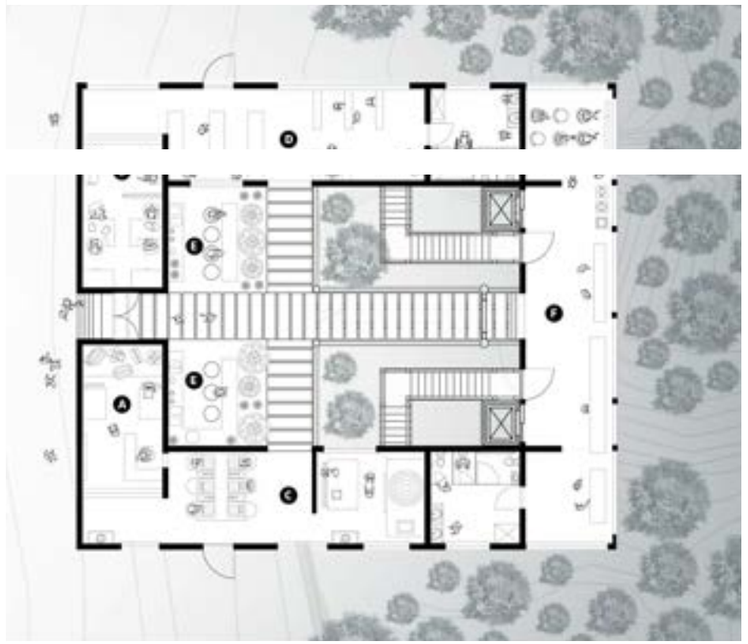
Professor: Adam Thibodeaux

Partners:
Jonah Mathew
Fazal Khan

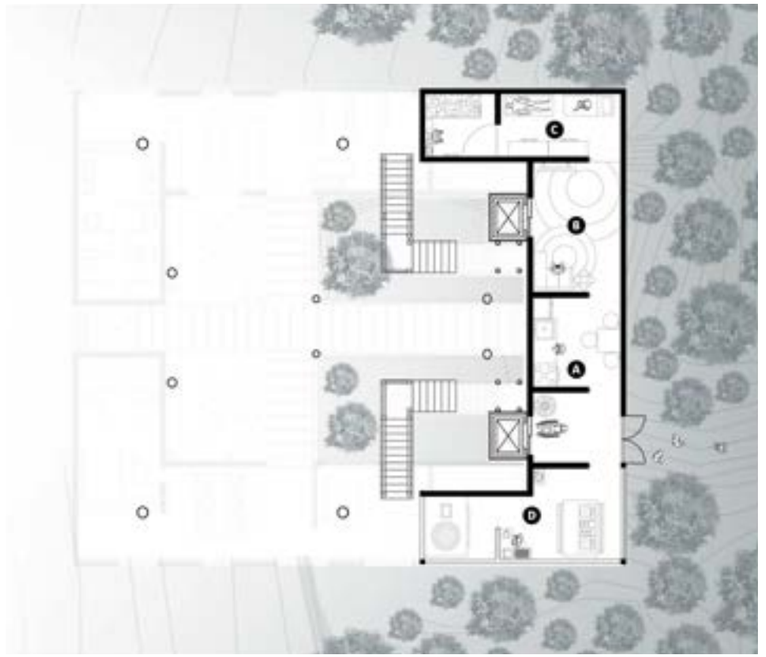
This being the first group project during the covid era, students were assigned to research different complex architecural project. Our group was assigned to research the Ise-Grand Shrine in Japan, and to study its very long history. A building was created following the overall shape of the Shrine with a few changed to be able to fit in aorund the typical Bufffalo Neighborhood.

For the second half of the semester we were assigned a program to populate the created building, in this case it was a seramics studio, which we populated with a common area Cafe, a goods purchase area, Exhibition Area, and last but not least a housing for students interested in living inside the building while studying deeper into the history of ceramic making.

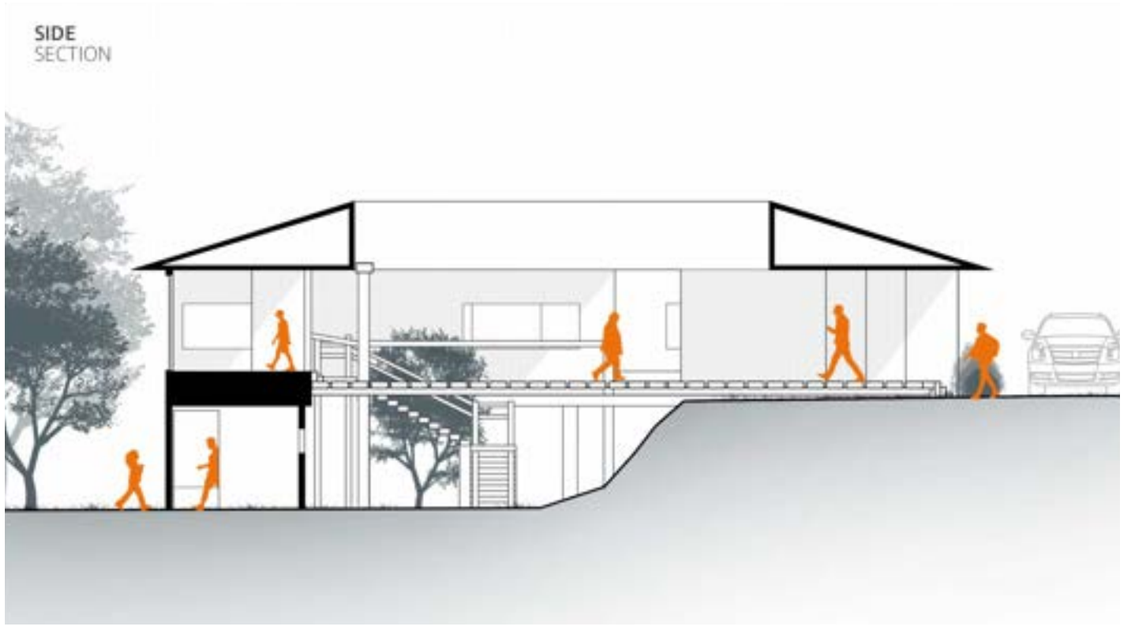




Site Ground Floor Plan

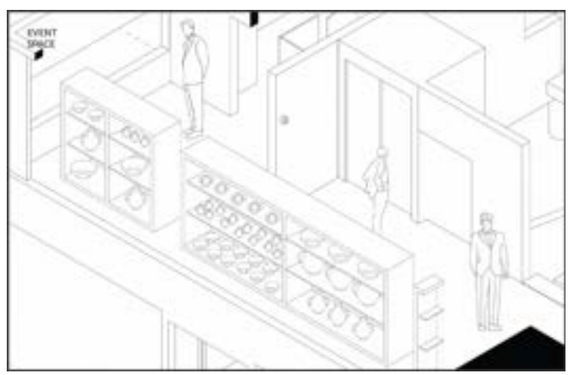


Site First Floor Plan



Public space in the left part of the page shows the main entry way, walkaway and cafe space provided to workers and visitors to eat or drink while enjoying the many programs in the building. Mainly focus on keeping students

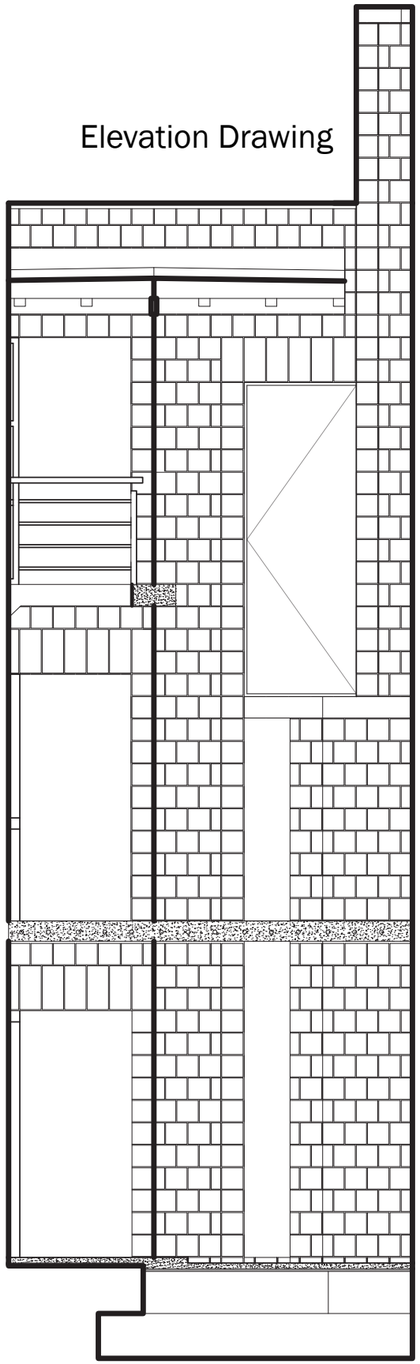
Space was creation for the purchase of products created by workers from the ceramics studio as well as students that live in the provided living spaces in the lower floor. Office space is also available for the public to schedule workshop or tour in the site such as school filed trips as well as community visits.

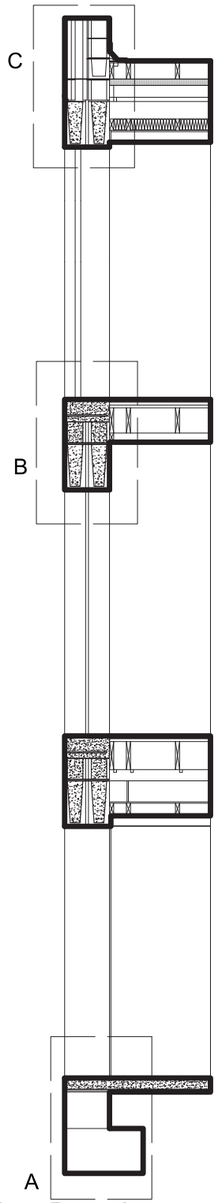


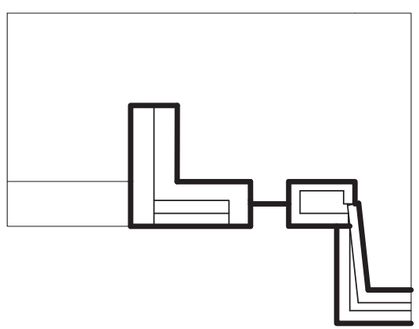
Last but not least is the ceramics exhibition space, provided for the display of the most succesful pieces of ceramics made by students, as well as a lecture space for the presentation of new projects, final reviews of students and presentations of the history behind the design of the building to all visitors.

CROFFEAD HOUSE
BY CLARK + MENEFEE

Elevation Drawing



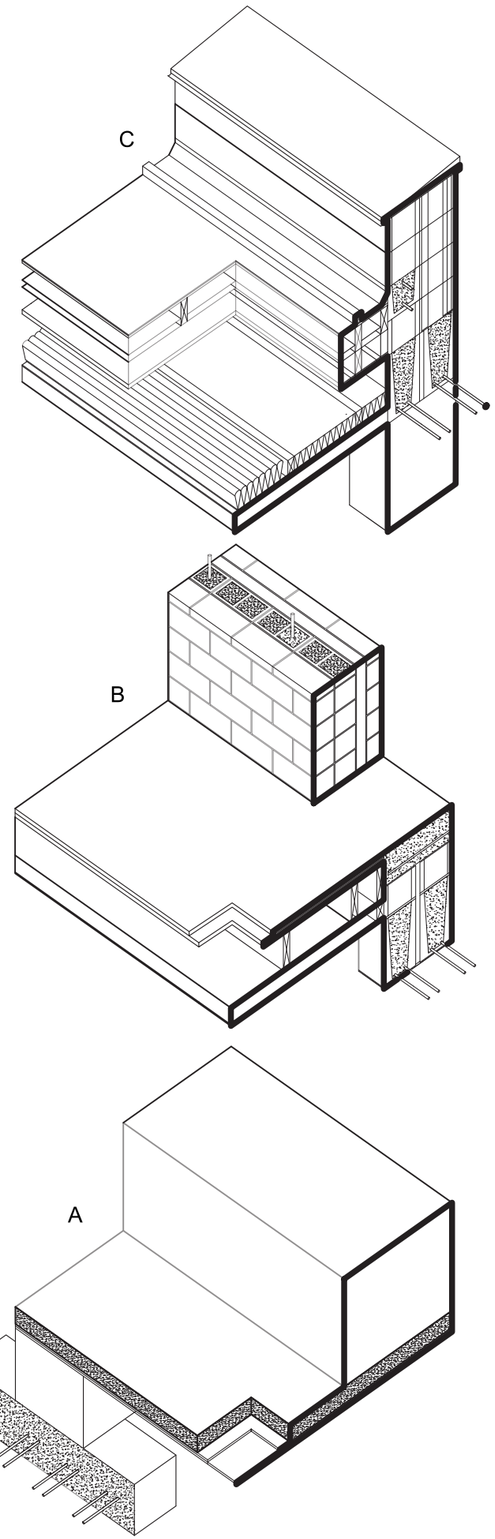


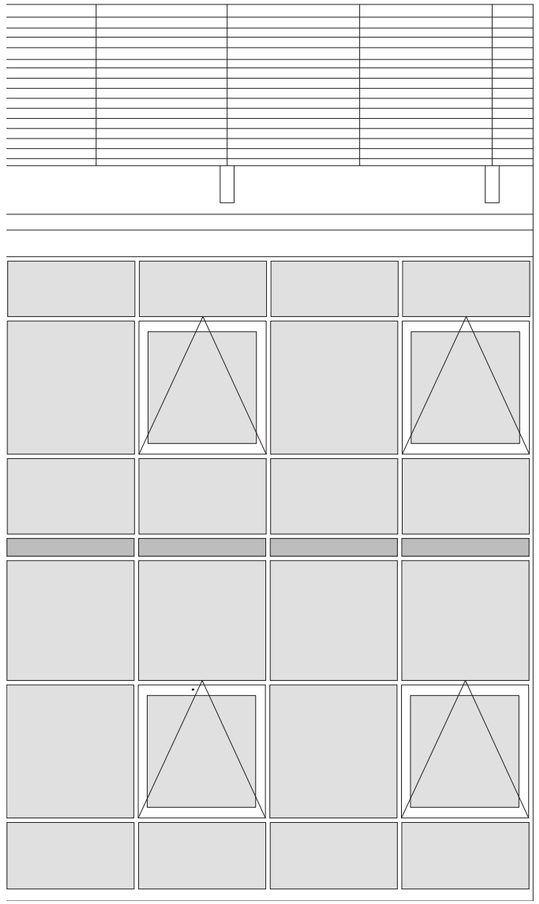


Plan Drawing

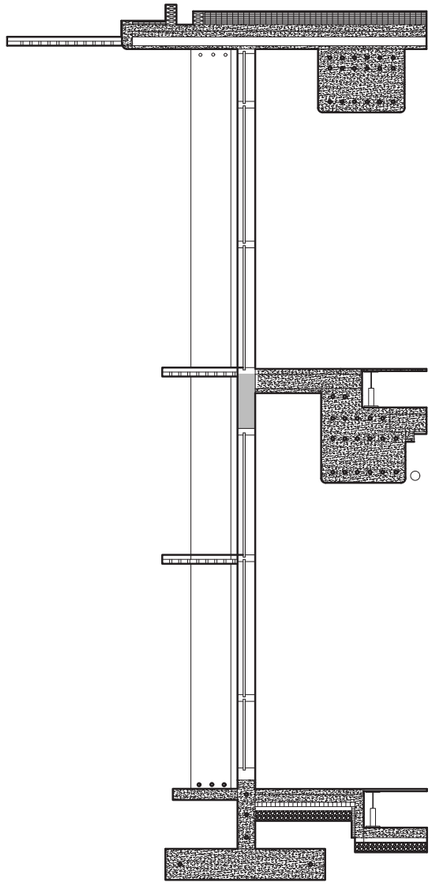
Section Drawing

Axons

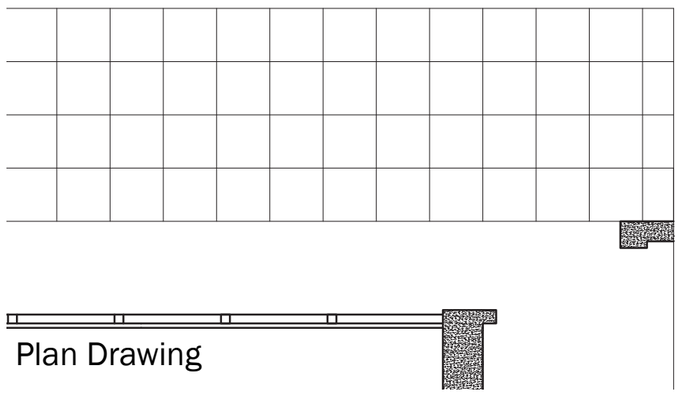




Elevation Drawing

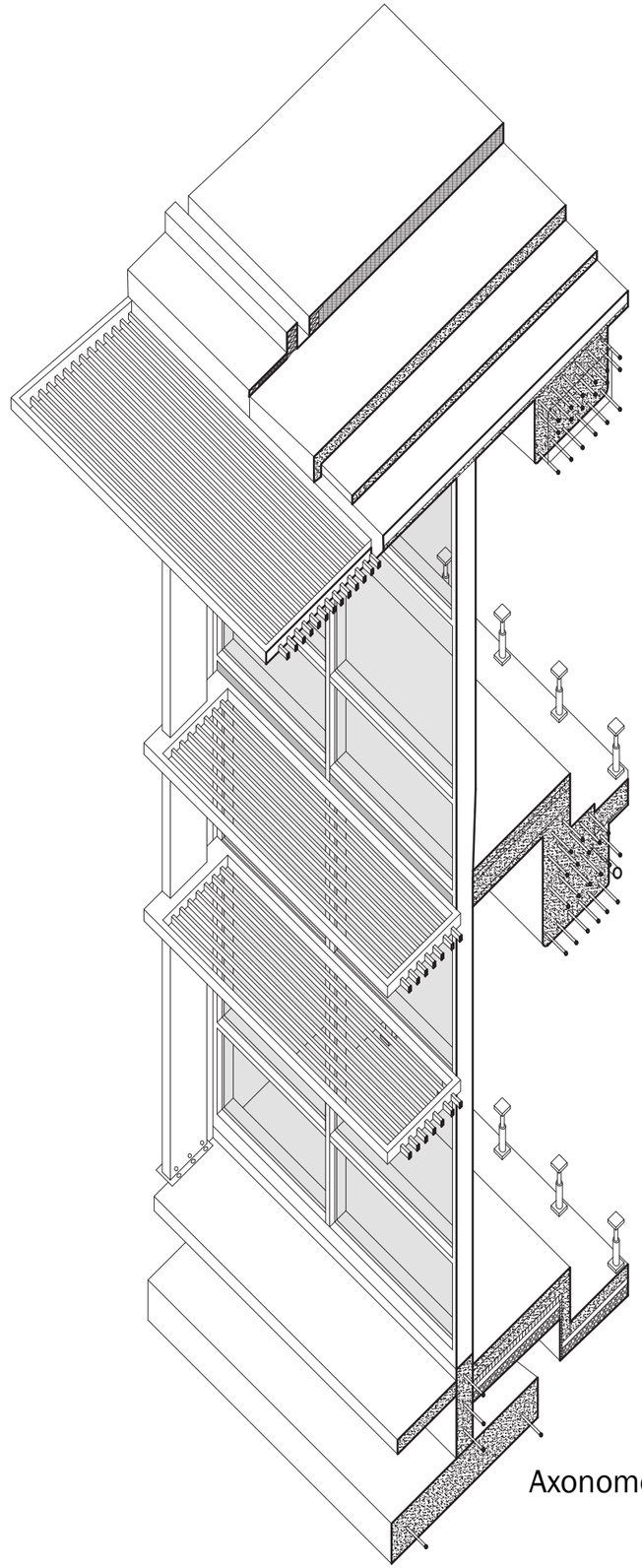


Section Drawing



Plan Drawing

PIERCE COUNTY
ENVIRONMENTAL
SERVICES
OFFICE BUILDING



Axonometric Elevation