

MARTHA DELVALLE ZAMBRANO
ARCHITECTURAL PORTFOLIO

MARTHA DELVALLE ZAMBRANO
ARCHITECTURAL DESIGNER
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EDUCATION
THE BERNARD AND ANNE SPITZER SCHOOL OF
ARCHITECTURE AT THE CITY COLLEGE OF NEW
YORK
B. ARCH (2015 - 2020)

THE BEUTH UNIVERSITY OF APPLIED SCIENCES
BERLIN
STUDY ABROAD (SUMMER 2018)

THE STELLA AND CHARLES GUTTMAN
COMMUNITY COLLEGE
A.A. BUSINESS ADMINISTRATION (2012 - 2014)

EXPERIENCE
RAYMOND HO ARCHITECT PLLC.
JUNIOR ARCHITECT (2018 - 2021)

CITY COLLEGE OF NEW YORK
ARCHIVAL DATABASE (2018 - 2019)

LANGUAGES
ENGLISH
SPANISH

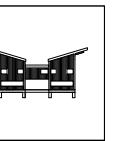
PROGRAMS
AUTOCAD, RHINO, REVIT, ILLUSTRATOR,
PHOTOSHOP, INDESIGN, ACROBAT

EXTRACURRICULAR
THE ARCH LEAGUE MENTORSHIP
MENTEE (2019 - 2020)

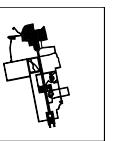
PROJECTS



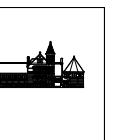
**01 EDUCATIONAL RESEARCH
CENTER, SPRING 2020**
LOCATION: FLUSHING, NEW YORK, USA.
PROFESSOR: JULIE NELSON
INDIVIDUAL PROJECT



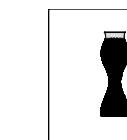
**02 ECO SOUTHERN HOUSE,
SPRING 2019**
LOCATION: JACKSON, MISSISSIPPI, USA.
PROFESSOR: NANDINI BAGCHEE
INDIVIDUAL PROJECT
(PUBLISHED IN BUILDING A TRANSITION CITY:
THE EWING STREET ECO-VILLAGE COOP PILOT
PROJECT)



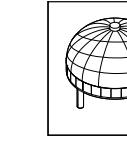
**03 PALACE OF DREAMS,
FALL 2019**
LOCATION: TIRANA, ALBANIA.
PROFESSOR: ELISABETTA TERRAGNI
PARTNER: REBECCA LAUSEN
(SELECTED FOR CITYWORKS AT SPITZER)



**04 WOBURN PUBLIC LIBRARY,
SPRING 2017**
LOCATION: WOBURN, MASSACHUSETTS, USA.
PROFESSOR: HOWARD DUFFY
INDIVIDUAL PROJECT



**05 AIR CONTROL TOWER, SPRING
2018**
LOCATION: QUEENS, NEW YORK, USA.
PROFESSOR: PHILIP LEE
PARTNER: SANTIAGO NIVILLE & CLESA SCOT



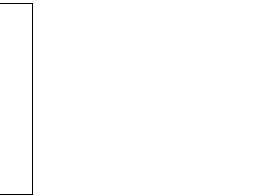
**06 MICRO HOME,
WINTER 2020**
LOCATION: NEW YORK, NEW YORK, USA.
FIRM: RAYMOND HO ARCHITECT
PARTNER: RAYMOND HO



**07 SURVEY NOTEBOOK, SPRING
2018**
LOCATION: NEW YORK, NEW YORK, USA.
PROFESSOR: MARTA GUAN
(AWARDED BEST NOTEBOOK AT SPITZER)



**08 WATERCOLOR NOTEBOOK,
2020**
LOCATION: NEW YORK, NEW YORK, USA.
(PERSONAL HOBBY)



EDUCATIONAL RESEARCH CENTER, SPRING 2020

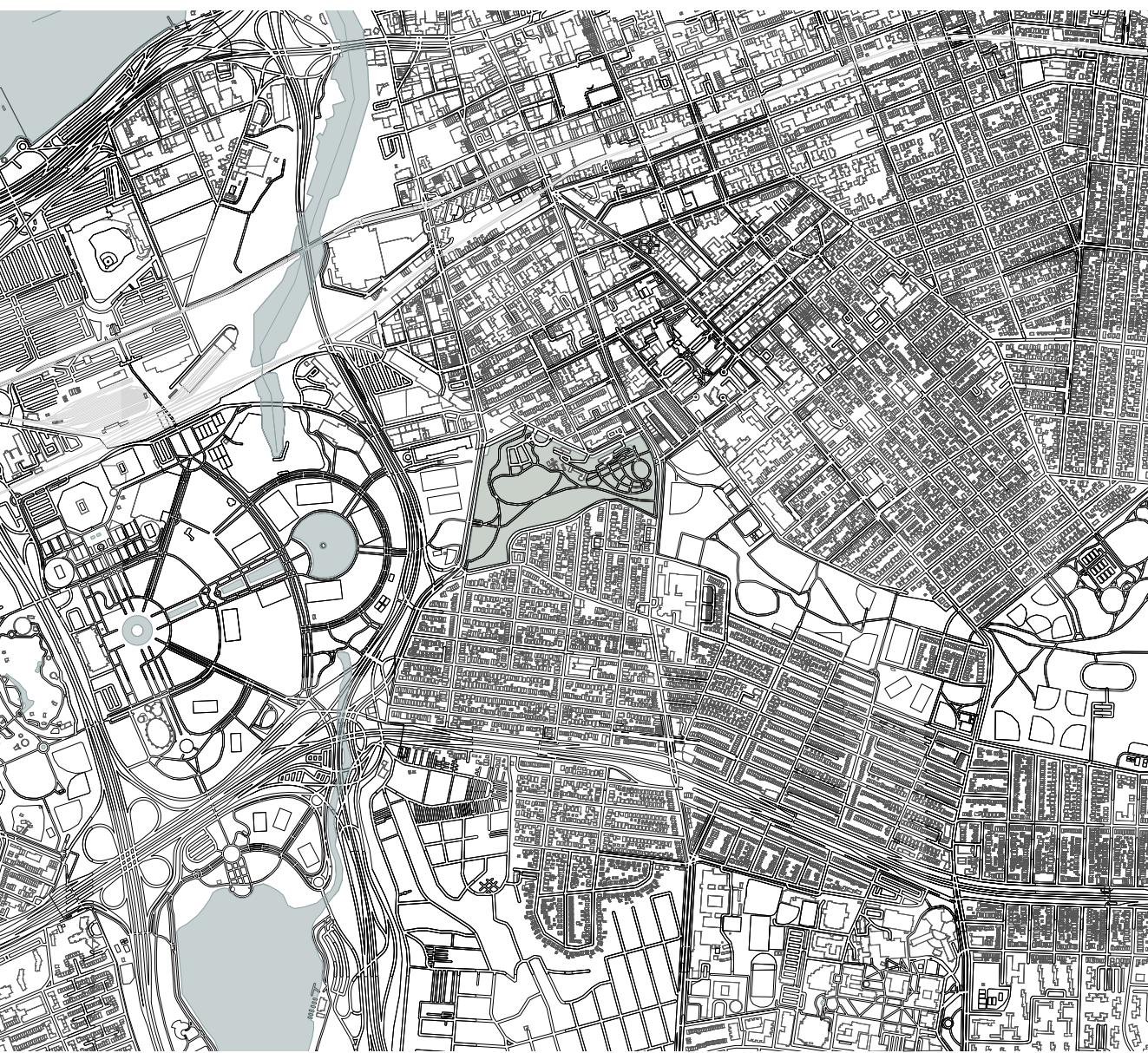
Location: Flushing, New York, USA.

Professor: Julie Nelson

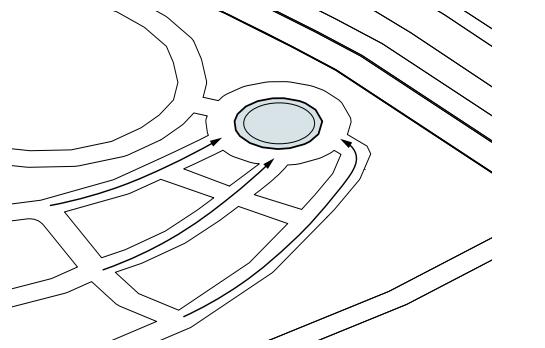
Individual Project

The Institute of Soil is +6,300 sq ft educational building that would teach visitors the process and benefits of fertile soil. The building is sitting on the existing Circle Garden and is pulled underground 14 feet from grade. The building has three entry points that were designed using the existing paths that led to the Circle Garden. The program within the building is divided up with the concept of root growth, which is having a main root (research space) that supplies the secondary roots (workspace and learning space).

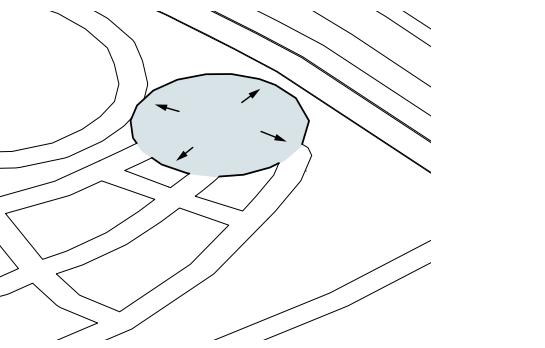
The overall building is held by the same 24" retaining walls used in my prototype so researchers can take samples quicker. The building is sealed above with a biodiverse roof garden that contains some of the excavated fertile soil. This subterranean facility was to appreciate and celebrate the importance and beauty of healthy soil as well as teach visitors on the types of soil that exist.



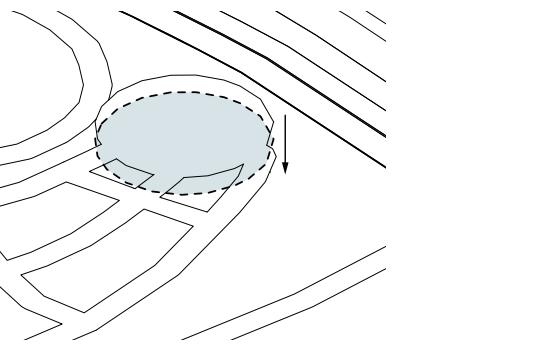
FLUSHING, QUEENS REGION SHOWING THE QUEENS BOTANICAL GARDEN



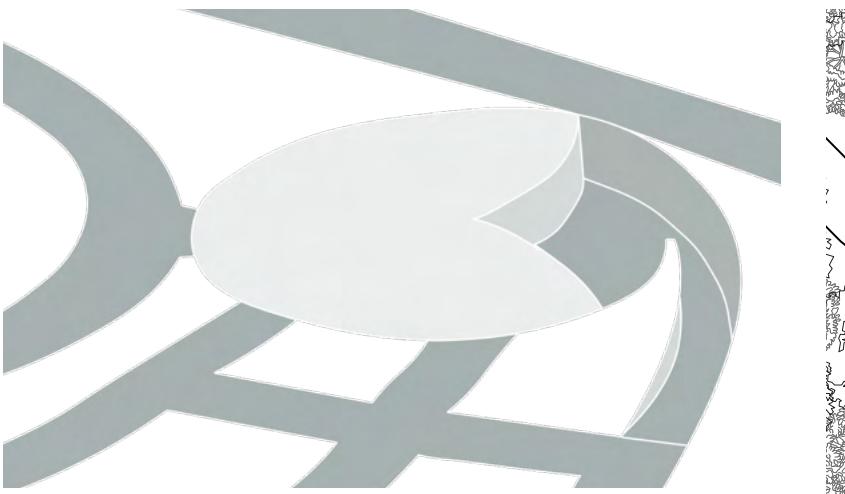
1. FOLLOW THE EXISTING PATHS LEADING TO THE GARDEN CIRCLE



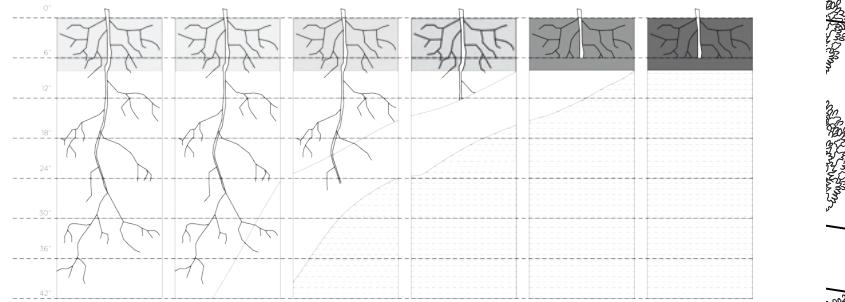
2. EXPAND THE EXISTING CIRCLE GARDEN TO 95' IN DIAMETER



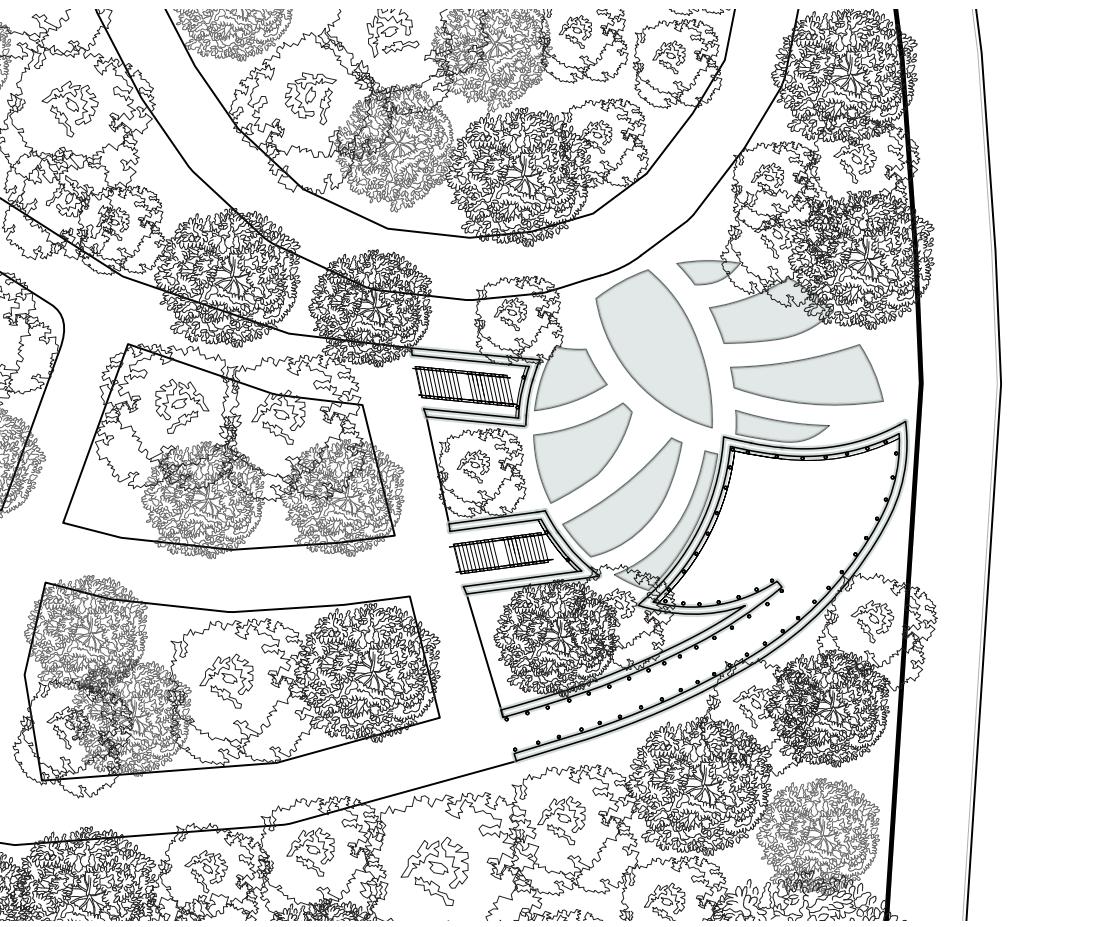
3. DROP THE GARDEN 12' BELOW GRADE TO BE GUIDED BY A SPIRALING PATH



VERY RAPID DRAINAGE RAPID DRAINAGE GOOD DRAINAGE MODERATE DRAINAGE POOR DRAINAGE VERY POOR DRAINAGE

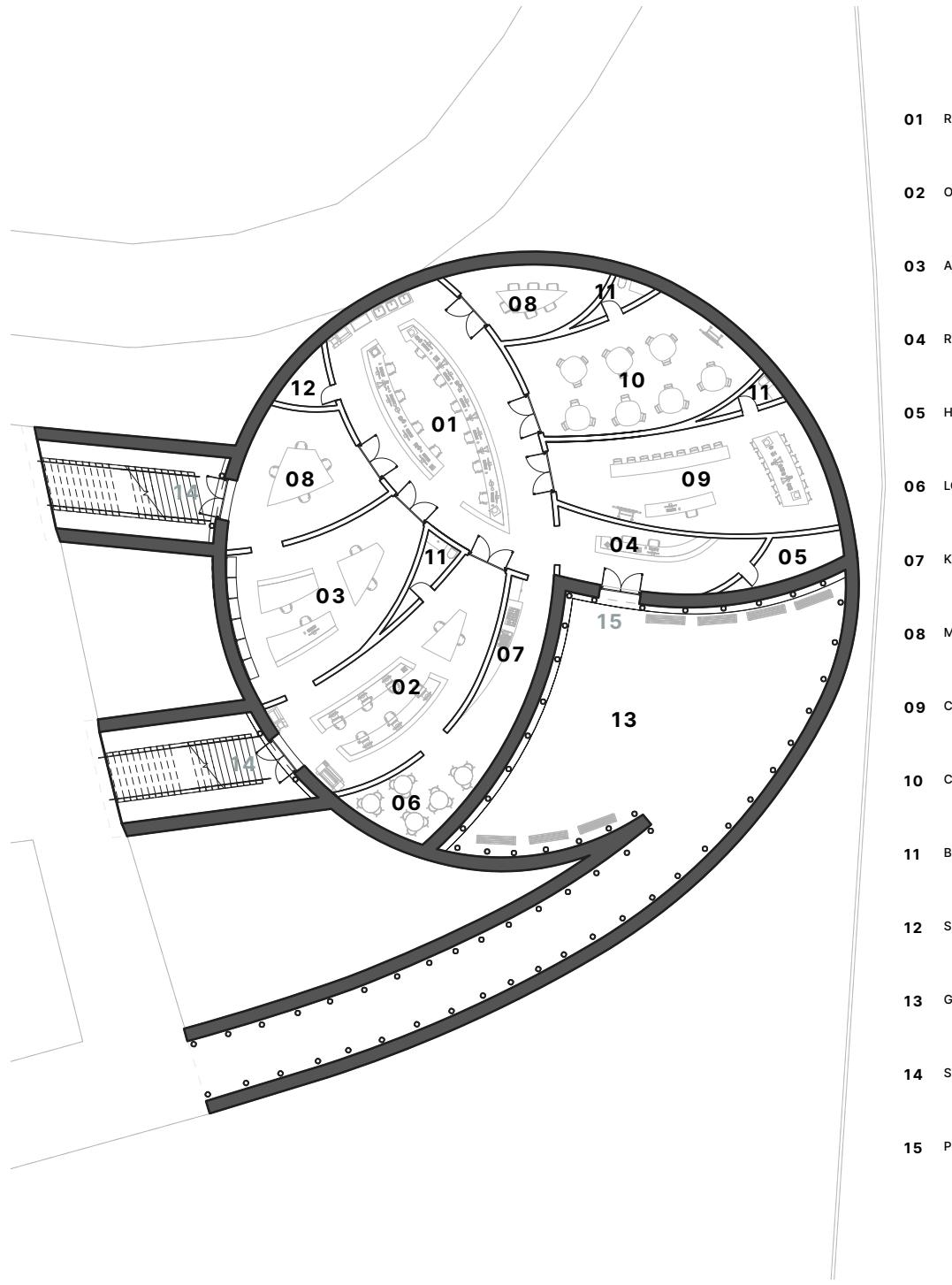


SANDY SOIL CHALKY SOIL LOAMY SOIL SILTY SOIL PEATY SOIL CLAY SOIL

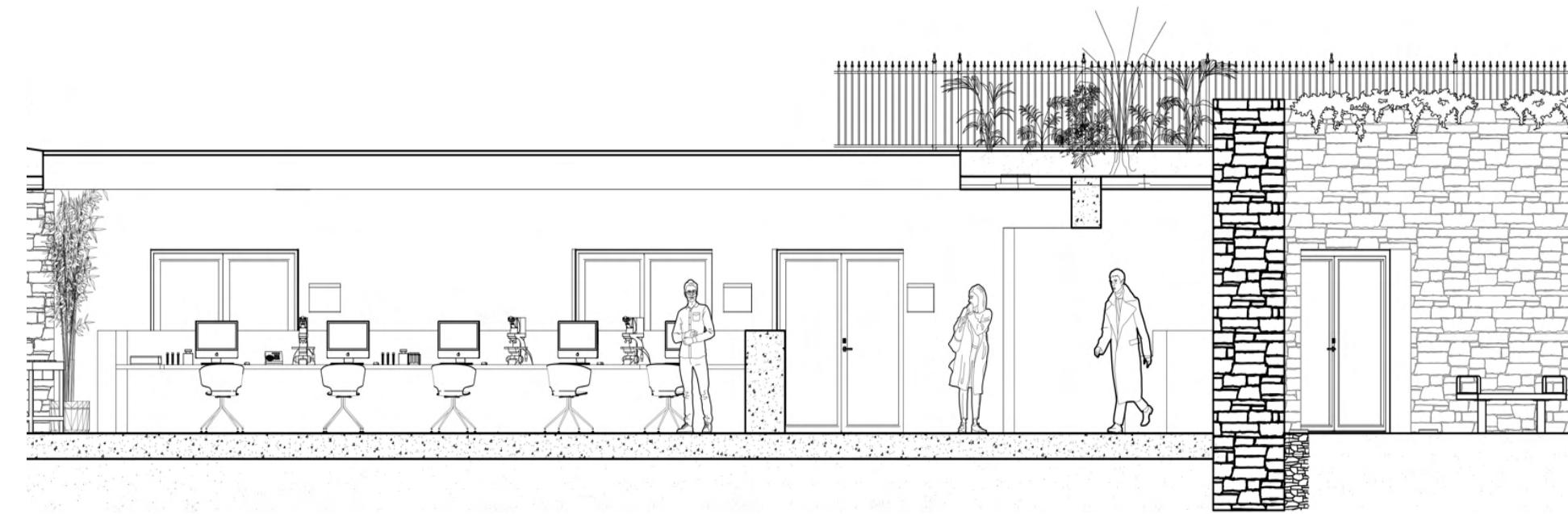
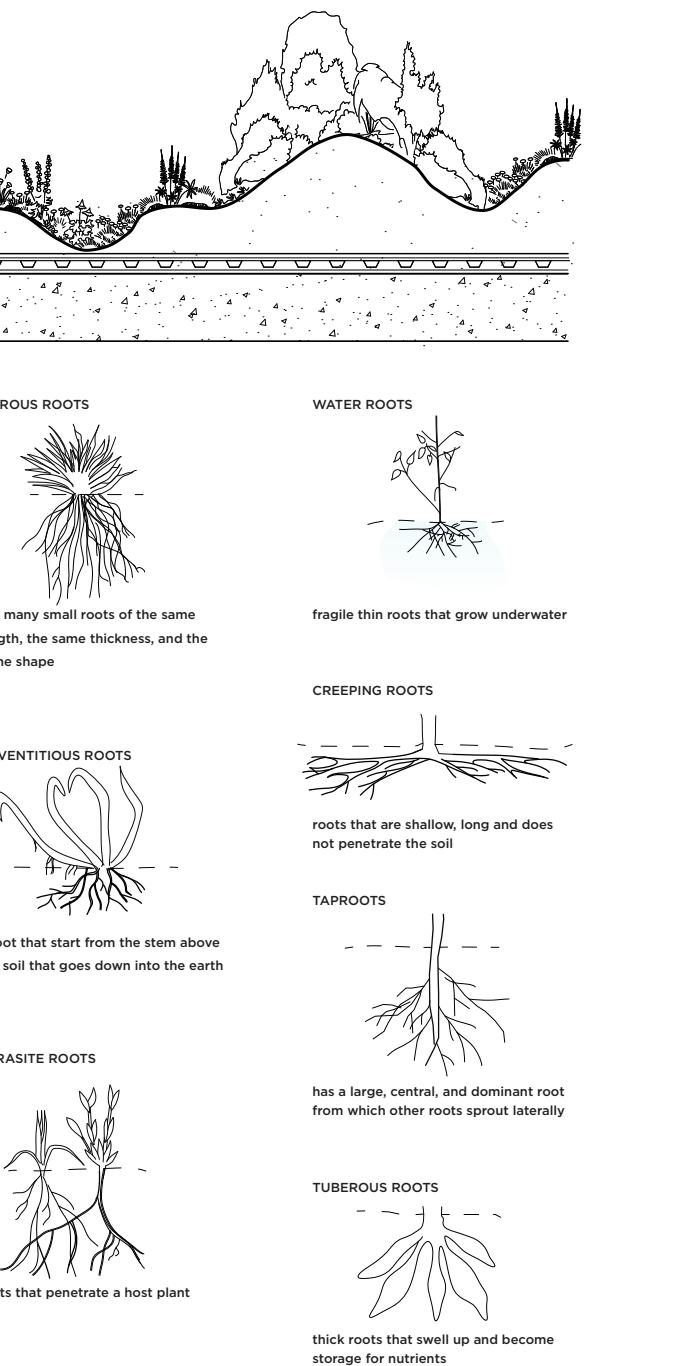


ACCESSIBLE ROOF TOP GARDEN FOR PLANT CULTIVATION AND SOIL STUDY

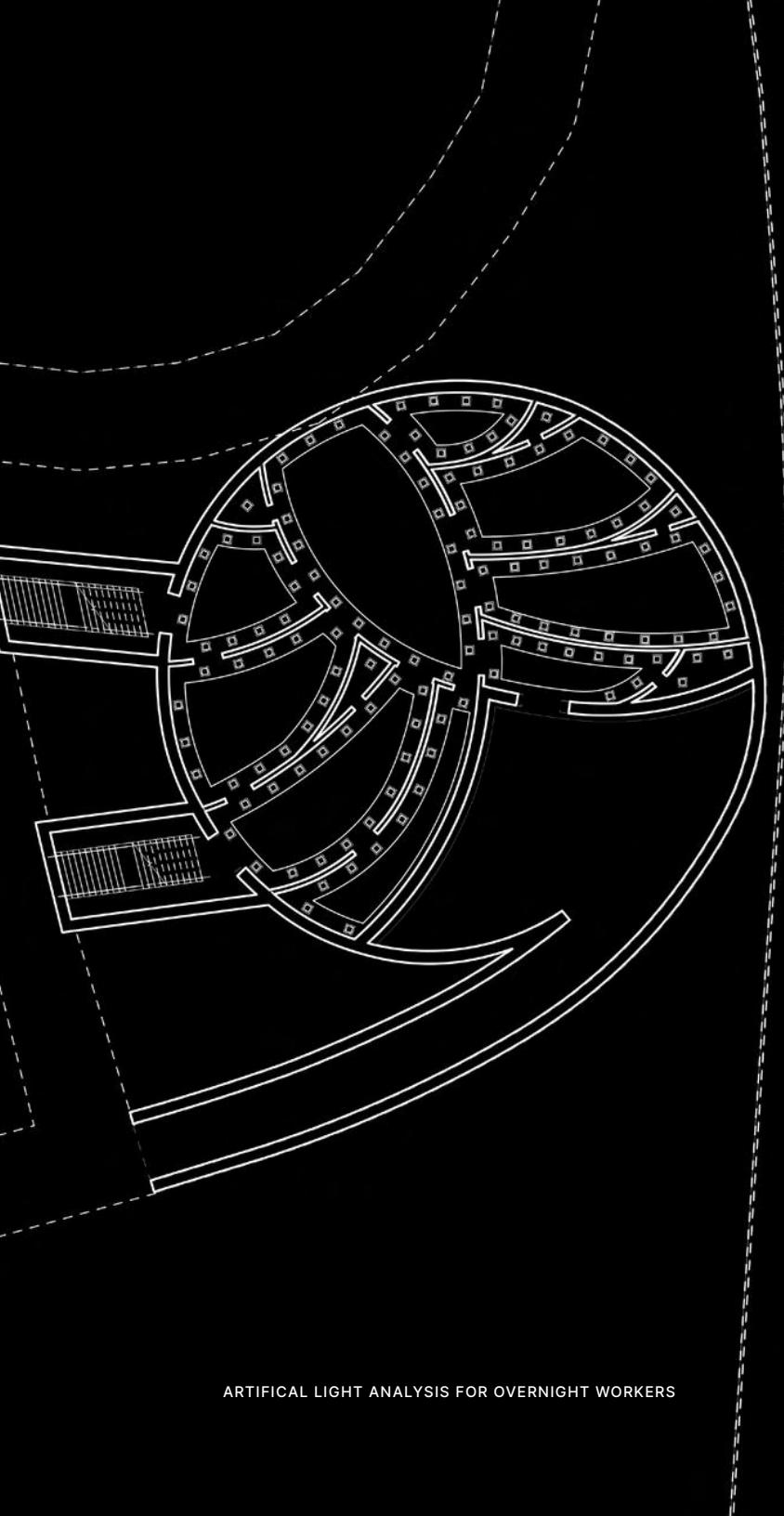




- 01 RESEARCH LAB
02 OFFICE
03 ARCHIVE
04 RECEPTION
05 HVAC/MEP
06 LOUNGE
07 KITCHEN
08 MEETING
09 CLASSROOM 1
10 CLASSROOM 2
11 BATHROOM
12 SHOWER
13 GARDEN
14 STAFF ENTRY
15 PUBLIC ENTRY



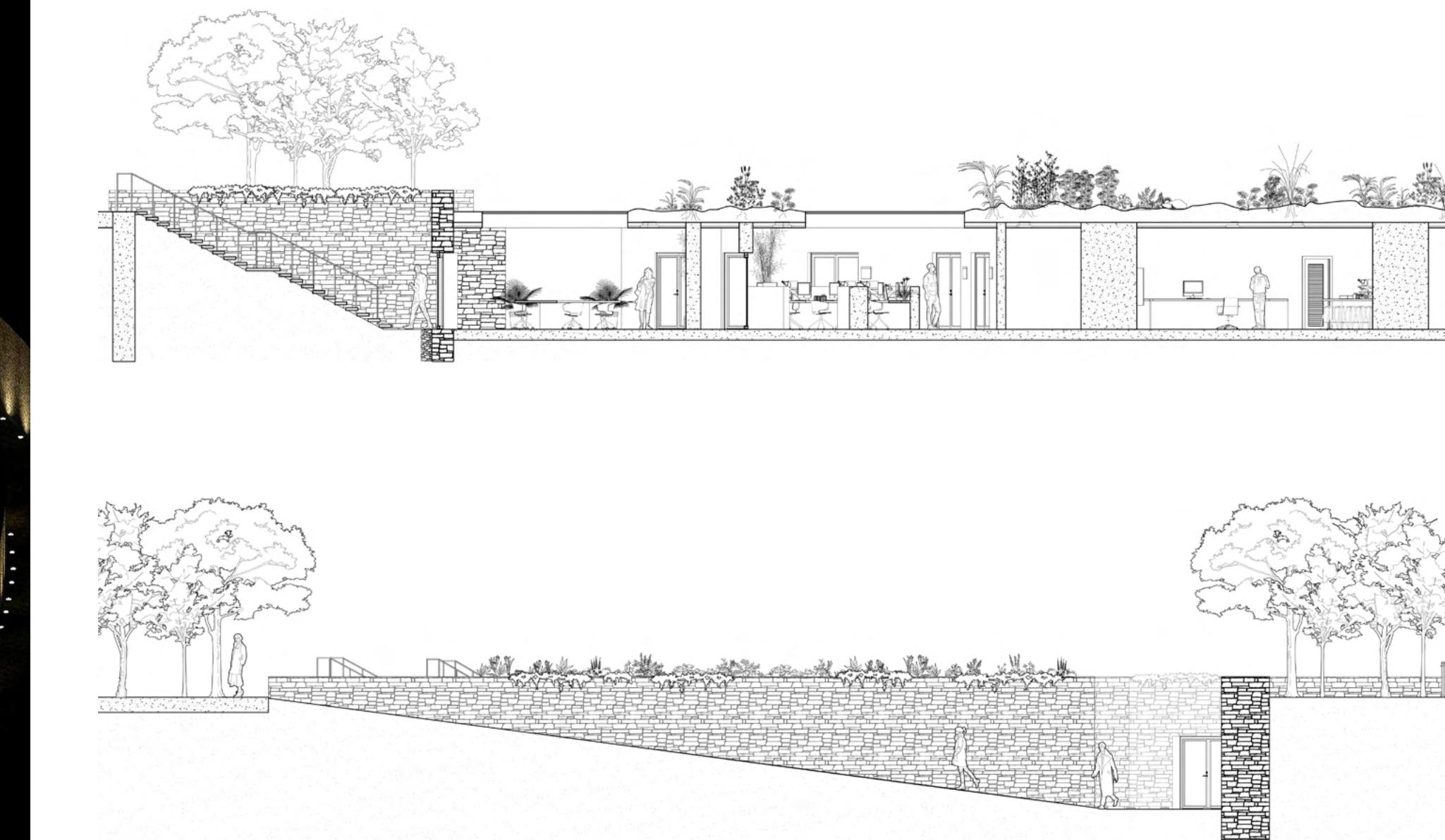
CENTRAL AREA FOR LAB STUDIES AND EXPERIMENTS



ARTIFICIAL LIGHT ANALYSIS FOR OVERNIGHT WORKERS

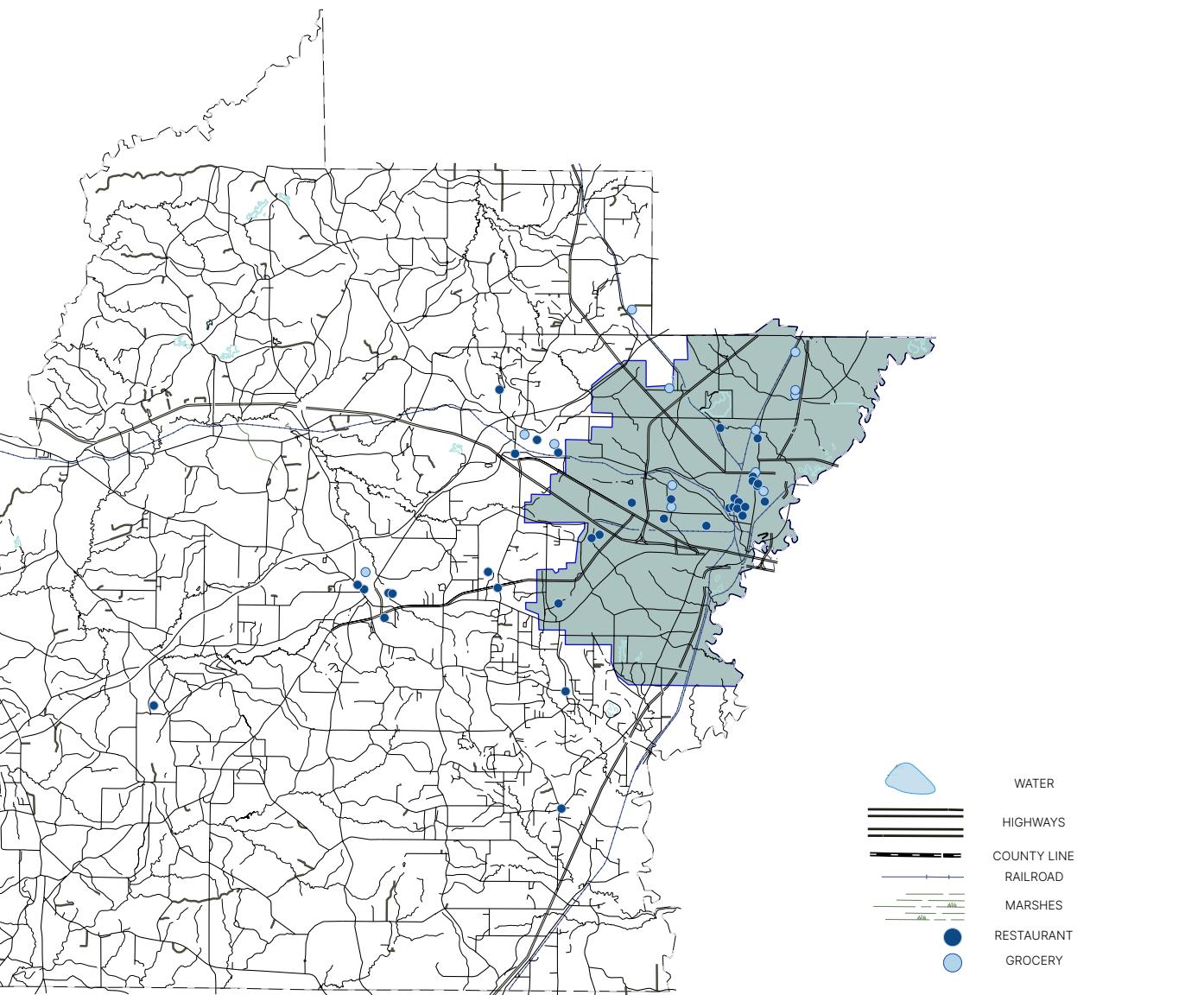


ARTIFICIAL LIGHT ANALYSIS FOR OVERNIGHT WORKERS



STAFF ENTRY PATH AND PUBLIC ENTRY PATH

HINDS COUNTY
MISSISSIPPI



ECO SOUTHERN HOUSE, SPRING 2019

Location: Jackson, Mississippi, USA.

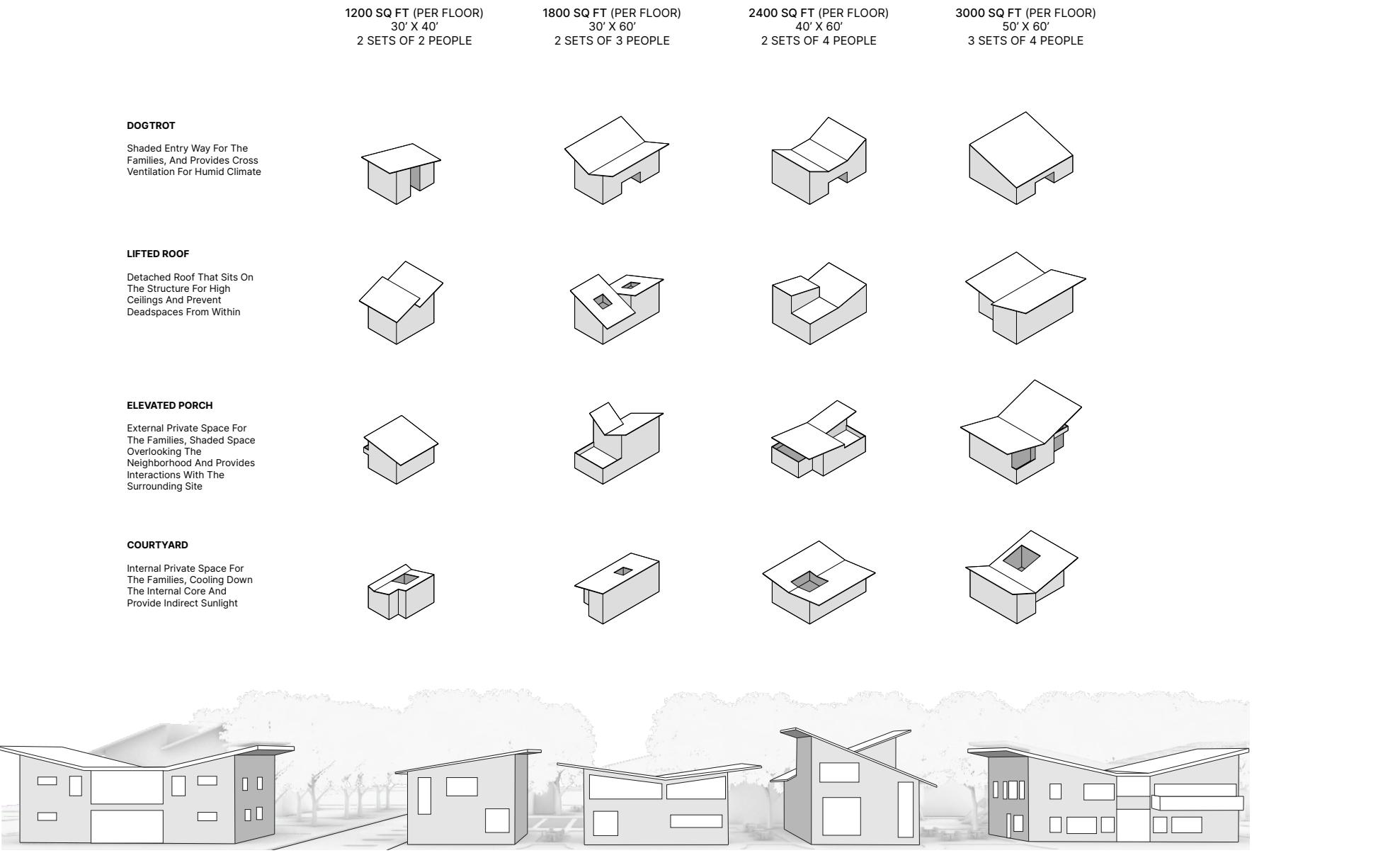
Professor: Nandini Bagchee

Individual Project

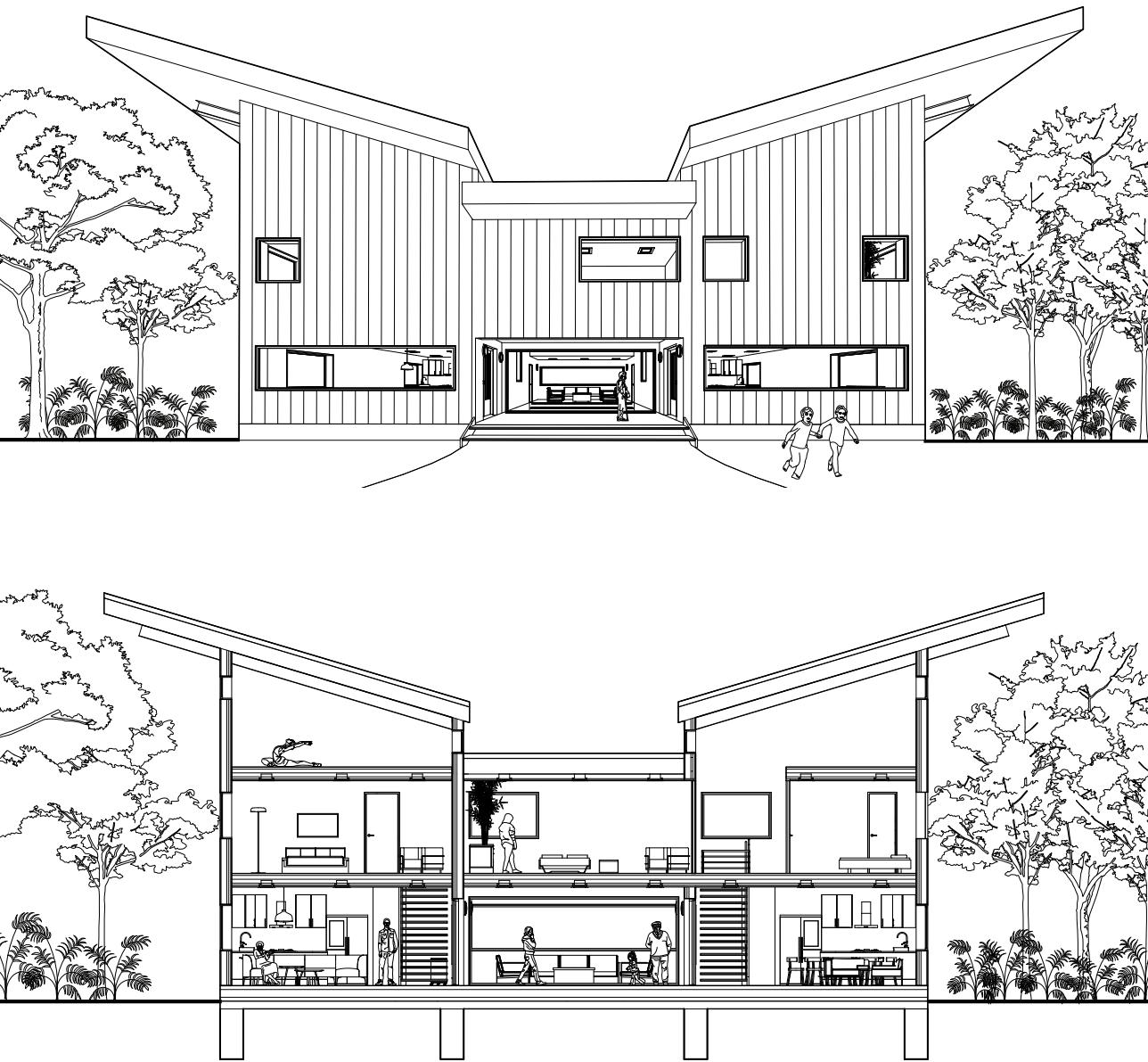
The project was to create a proposal for a single/duplex Eco house that takes into consideration the assembly and production as well as the broader ecological project for Jackson, Mississippi residents. In addition to address a conflict that residences face. The conflict I researched on was lack of grocery stores that are not in walking distance. We collaborated with Cooperation Jackson to ensure we were designing with the intent of fulfilling the needs of the African American community of Jackson.

The house I proposed a two story to hold two medium size families with the idea of providing a connection with their adjacent neighbor. The pitched roof guides the seasonal rainshower into the courtyard that provides a communal space as well as a private garden. The house structure is designed to be built with prefabricated walls and to be erected on site. I did research on the state's agriculture and seasonal rainfalls.

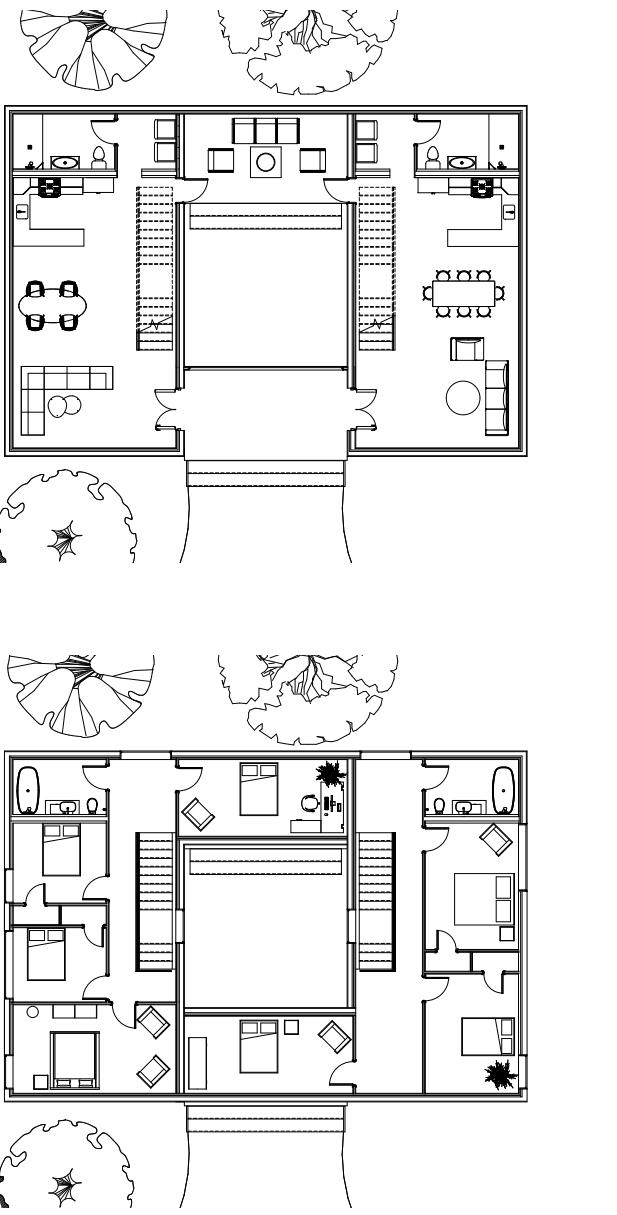
Completed project was published in the booklet titled *Building a Transition City: The Ewing Street Eco-Village Coop Pilot Project* by architect, Nandini Bagchee.



ANALYSIS OF SOUTHERN VERNACULAR ARCHITECTURE AND ELEVATION SCHEME OF NEIGHBORHOOD



PROPOSED PITCHED BUTTERFLY ROOF WITH 10'X10' COMMUNAL COURTYARD



FIRST FLOOR, SECOND FLOOR, AND VIEW FROM COURTYARD

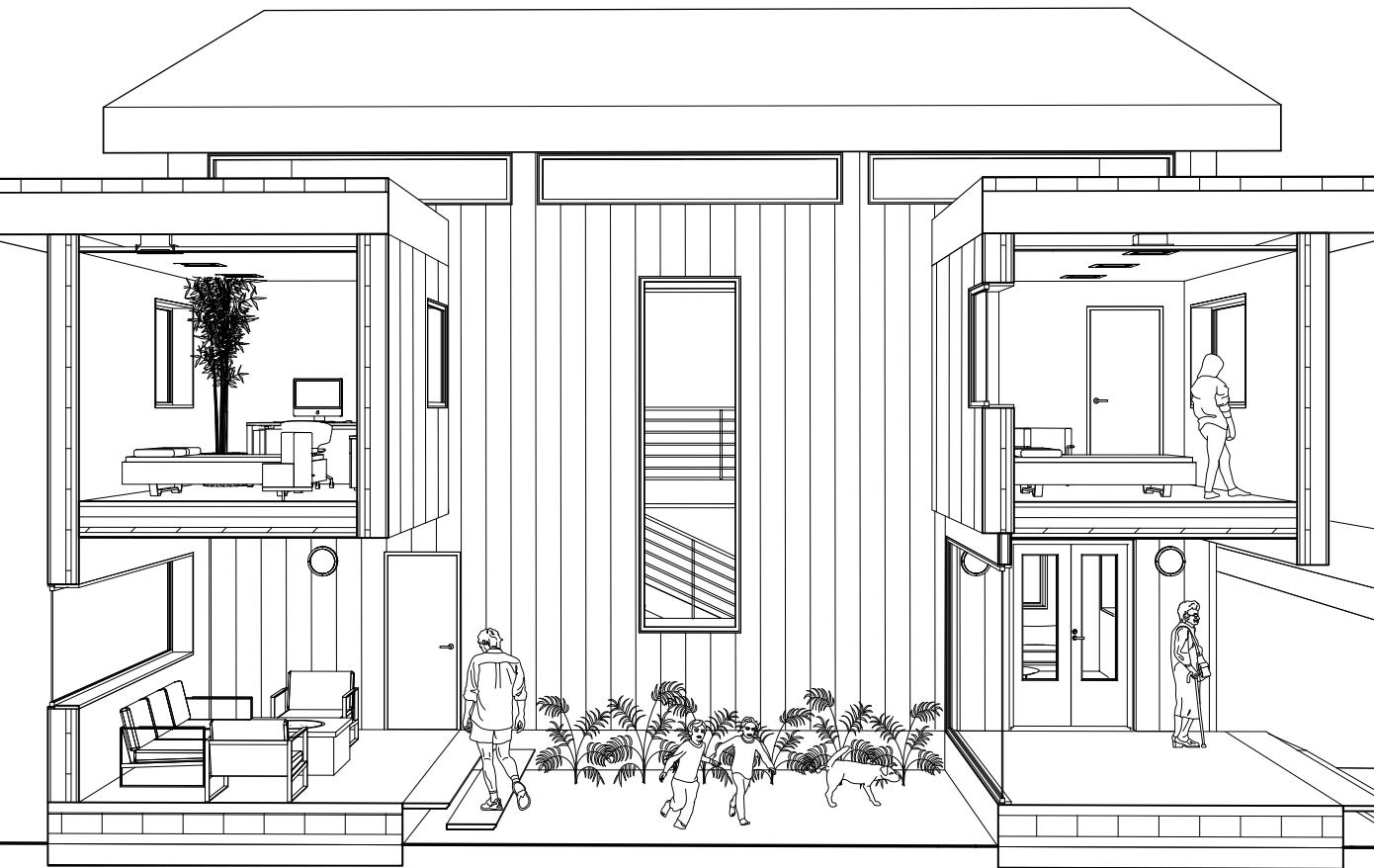


VIEW FROM FIRST FLOOR LIVING ROOM DESIGNED FOR ONE FAMILY

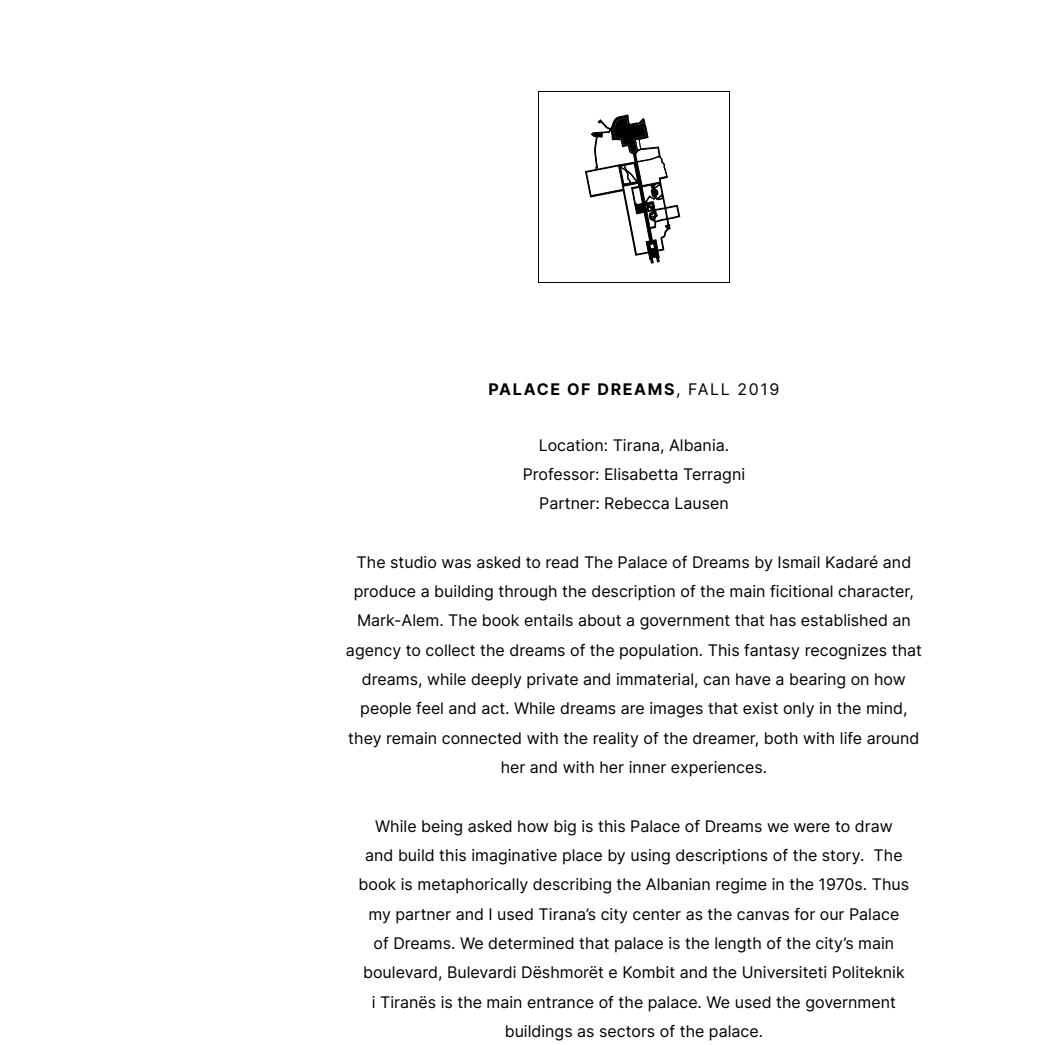




VIEW FROM SECOND FLOOR BEDROOM



SECTION CUT THROUGH THE SHARED COURTYARD AND FRONT PORCH



PALACE OF DREAMS, FALL 2019

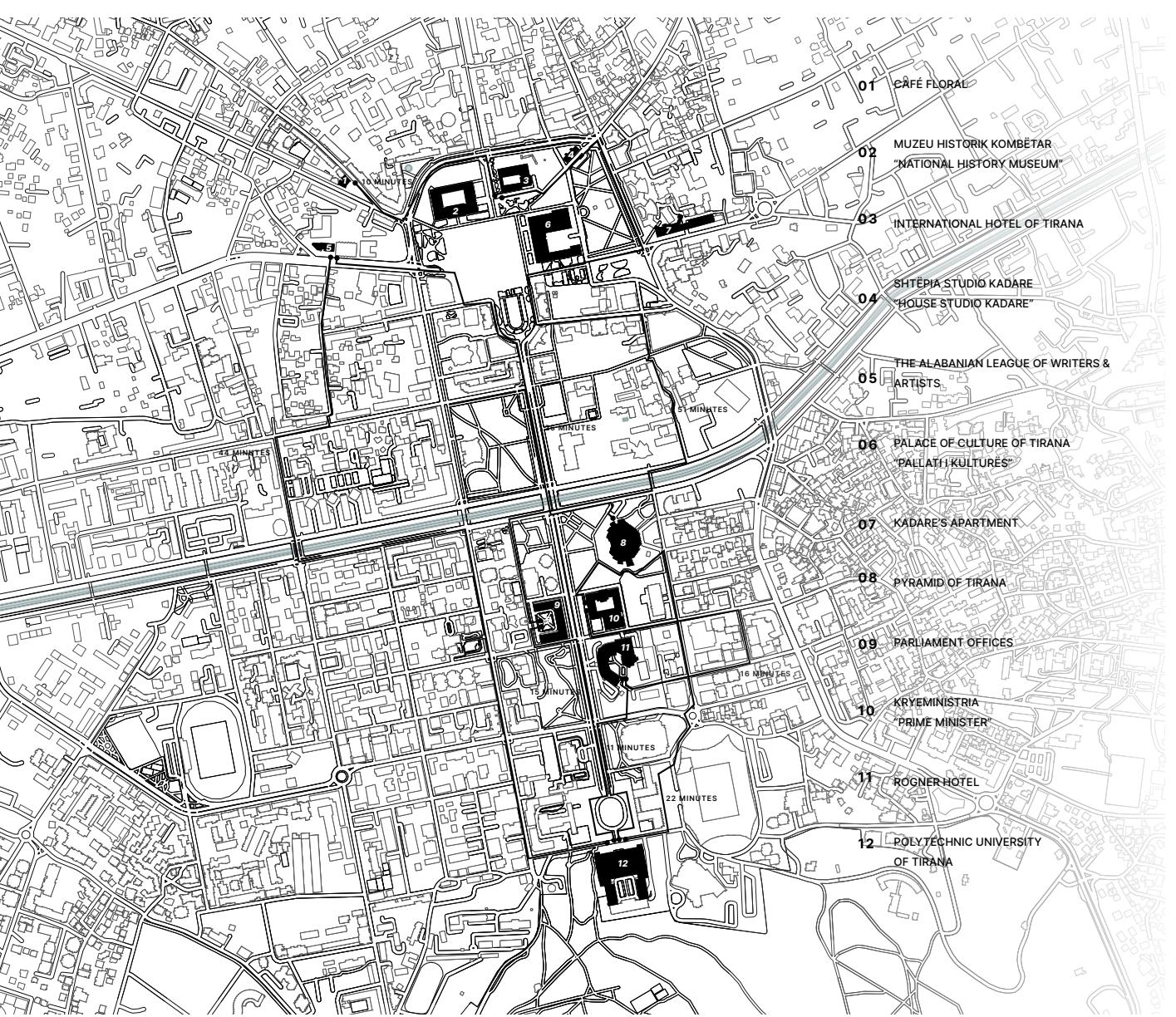
Location: Tirana, Albania.

Professor: Elisabetta Terragni

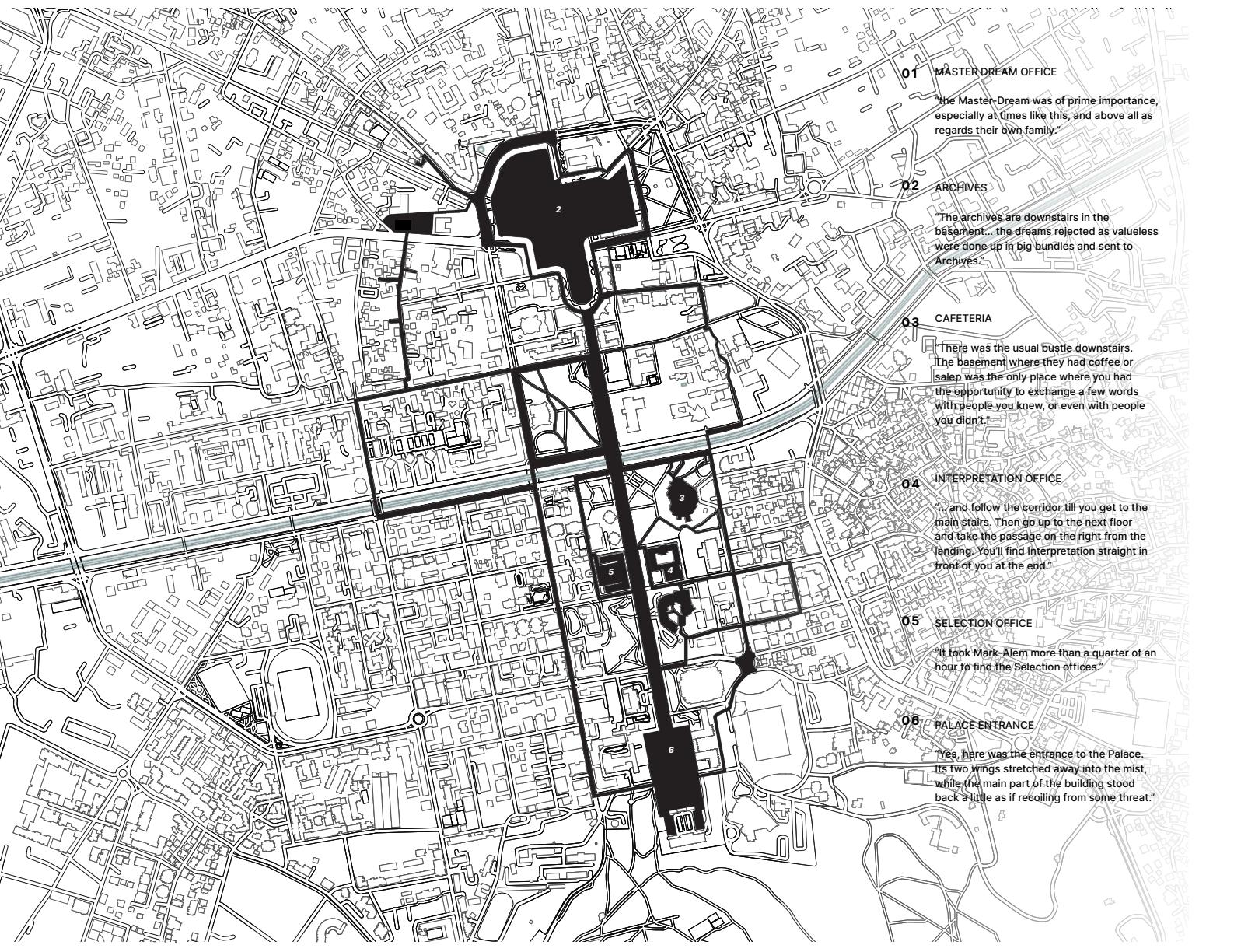
Partner: Rebecca Lausen

The studio was asked to read *The Palace of Dreams* by Ismail Kadaré and produce a building through the description of the main fictional character, Mark-Alem. The book entails about a government that has established an agency to collect the dreams of the population. This fantasy recognizes that dreams, while deeply private and immaterial, can have a bearing on how people feel and act. While dreams are images that exist only in the mind, they remain connected with the reality of the dreamer, both with life around her and with her inner experiences.

While being asked how big is this Palace of Dreams we were to draw and build this imaginative place by using descriptions of the story. The book is metaphorically describing the Albanian regime in the 1970s. Thus my partner and I used Tirana's city center as the canvas for our Palace of Dreams. We determined that palace is the length of the city's main boulevard, Bulevardi Dëshmorët e Kombit and the Universiteti Politeknik i Tiranës is the main entrance of the palace. We used the government buildings as sectors of the palace.



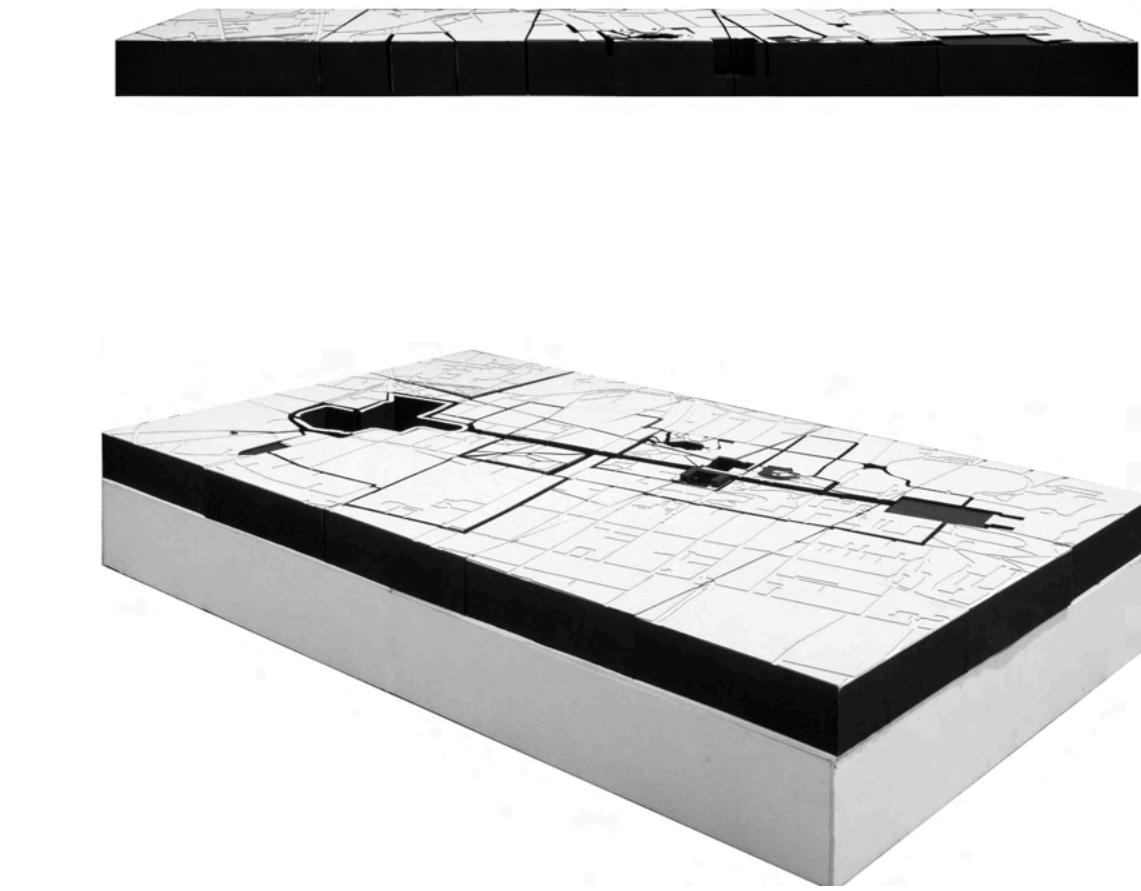
CITY OF TIRANA



PALACE OF DREAMS PASSAGEWAYS



PALACE OF DREAMS 36" X 60" MODEL





WOBURN PUBLIC LIBRARY, SPRING 2016

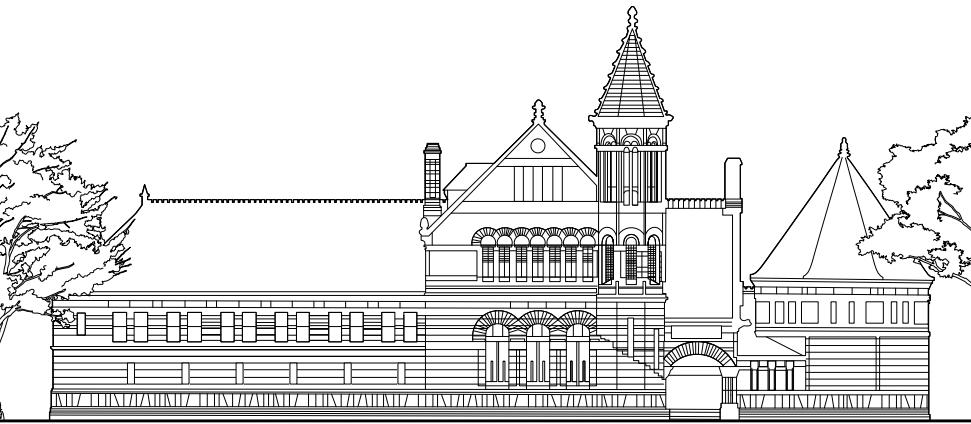
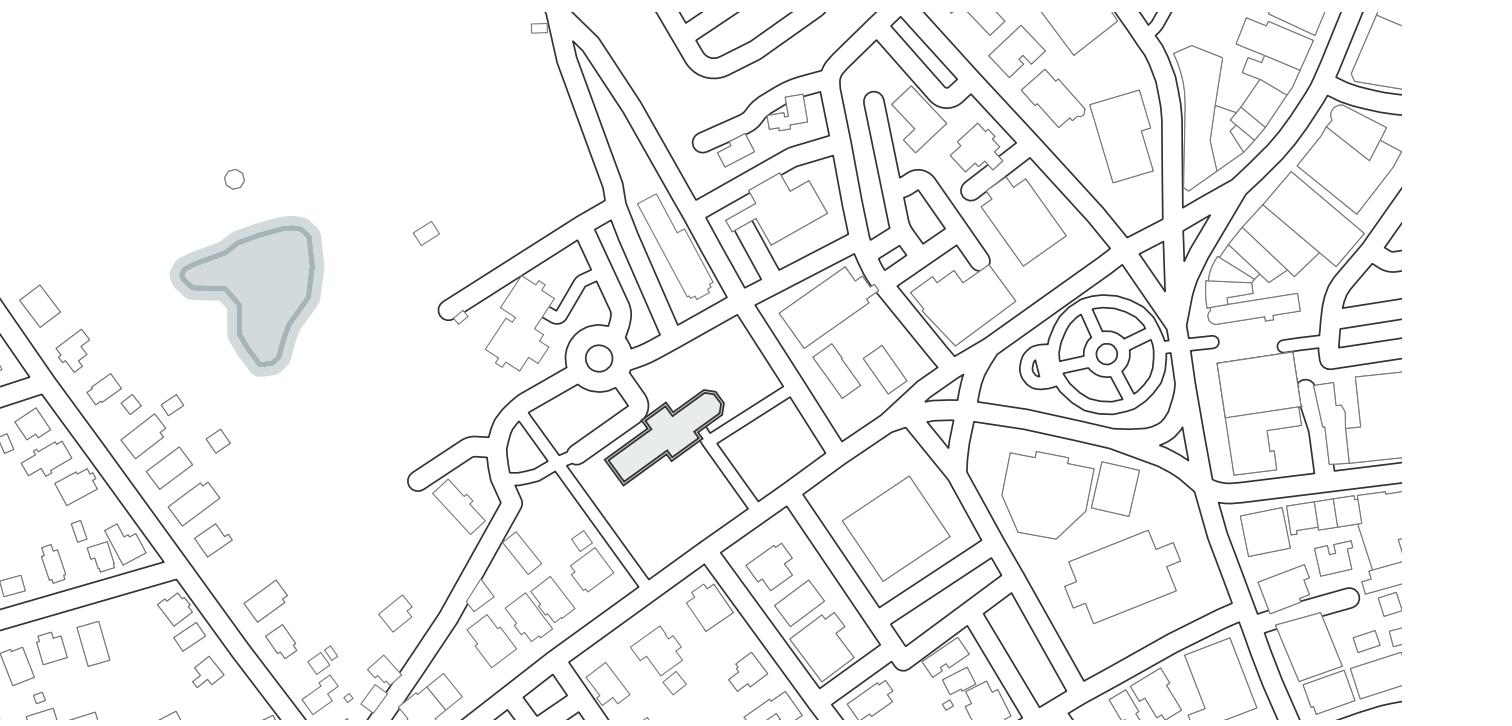
Location: Woburn, Massachusetts, USA.

Professor: Howard Duffy

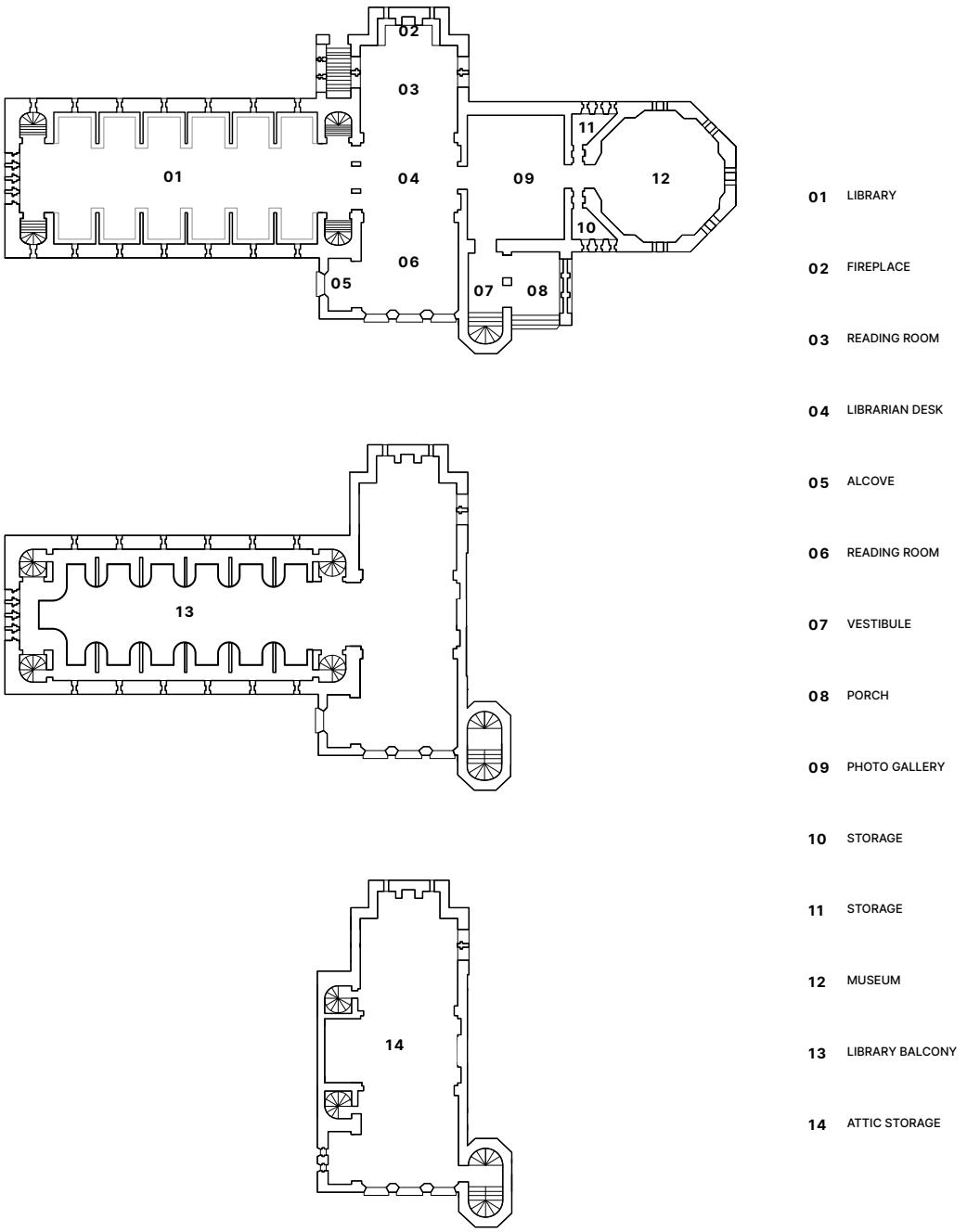
Individual Project

The library study analysis of Woburn Public Library explores the use of construction materials during the 19th century. The historical structure was built in 1876–1879 by architect Henry Hobson Richardson and called Winn Memorial Library at the time. The 74,000 square feet Romanesque Revival building was built for the Winn family in memory of Jonathan Bowers Winn.

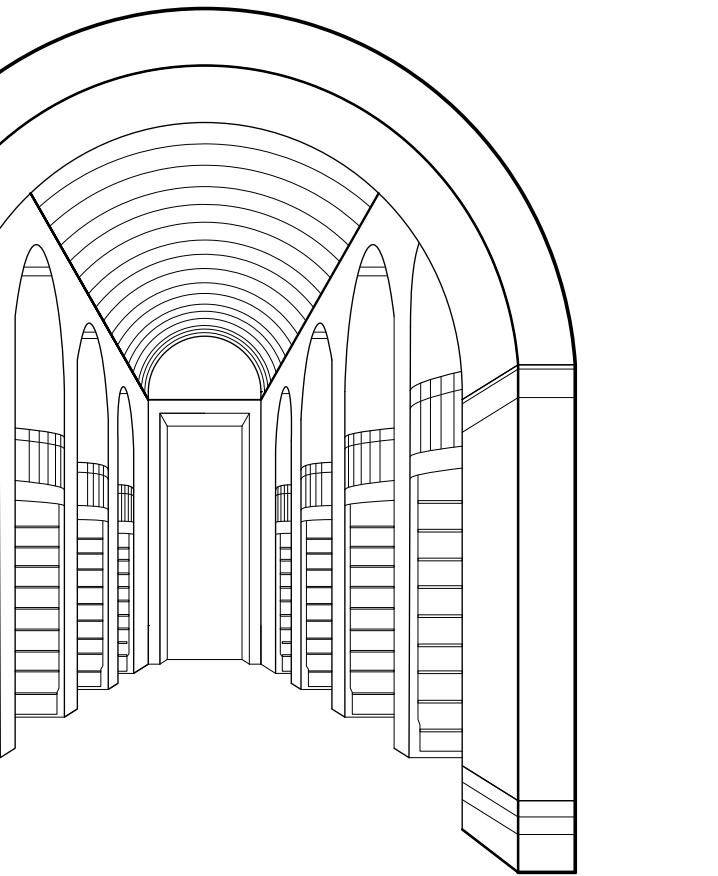
Anaylizing the basilica plan and structure of the library to understand the construction. The library's south façade is a long, two-story stack wing with slit windows on the first story and a strip of clerestory windows separated by columns above. The gable-ended crossing in the center of the building has three arched double windows on the first story, a line of seven arched single windows above, and tall victorian style tower. On the opposite side of the tower is the arch of the entrance porch. The other end holds a two and half story octagonal wing that houses the museum. The building's exterior is covered in brownstone trimmed with lighter stone. The library is topped with a red tile roof trimmed and crocketed ribs on the roofs of the tower and museum.



CITY OF WOBURN AND FRONT ELEVATION OF THE LIBRARY

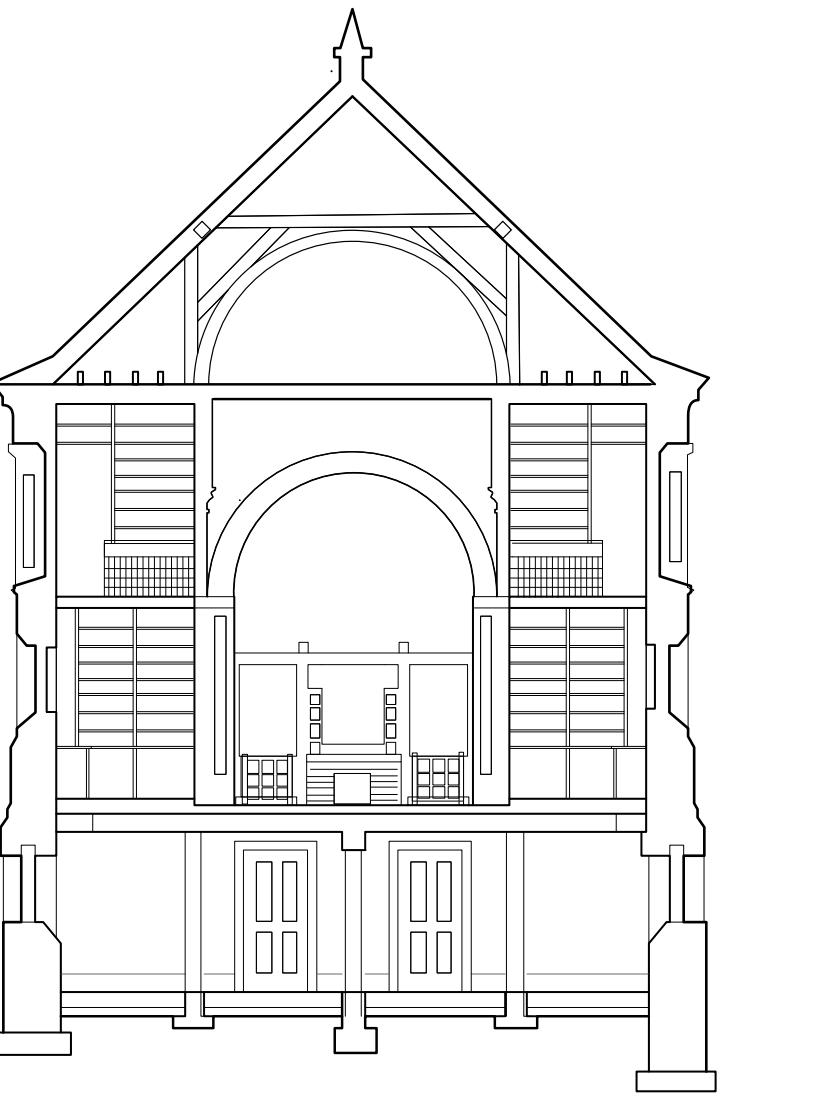


FIRST, SECOND AND THIRD FLOOR LAYOUT AND PERSPECTIVE DOWN THE TRANSEPT

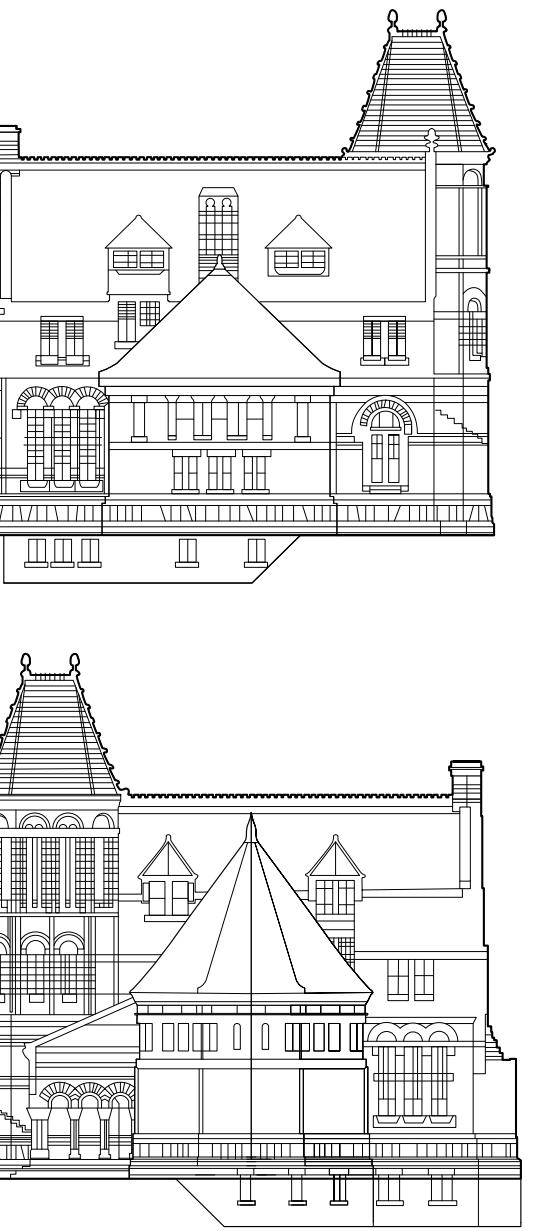
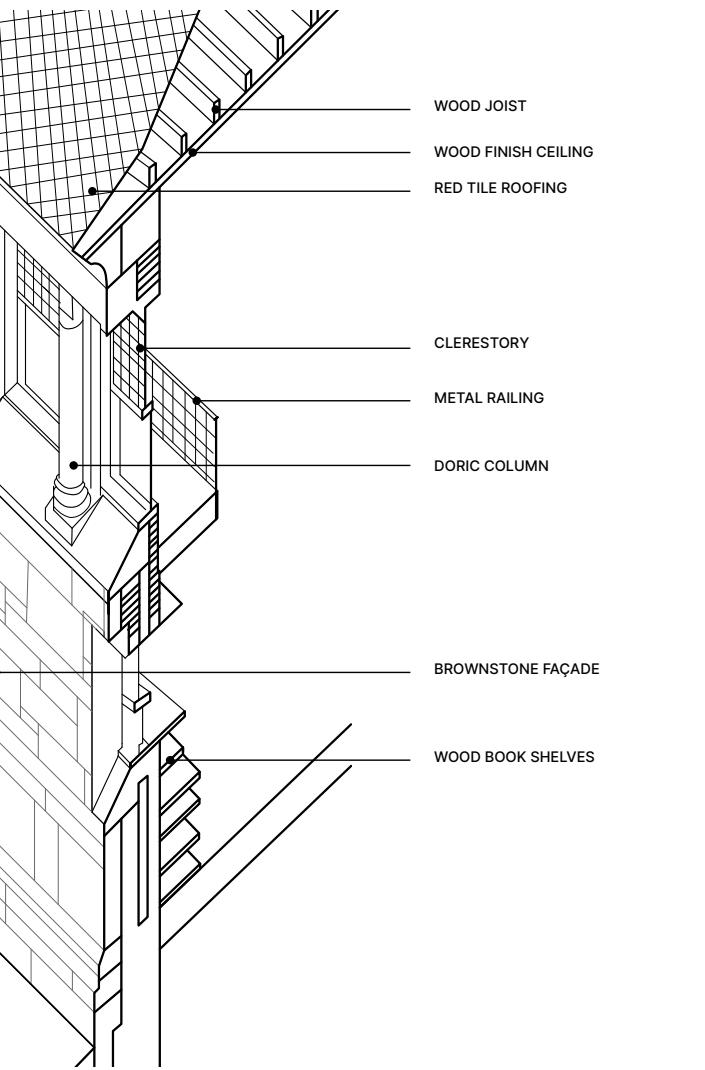


EAST TO WEST SECTION THROUGH LIBRARY



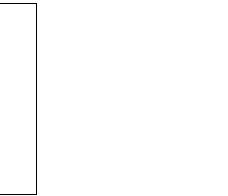


SECTION CUTTING THROUGH THE TRANSEPT AND DETAIL WALL SECTION OF THE FAÇADE ON THE WEST END OF THE BUILDING



WEST END & EAST END ELEVATION AND STUDY MODEL OF THE LIBRARY'S GEOMETRY





Air Control Tower, 2018

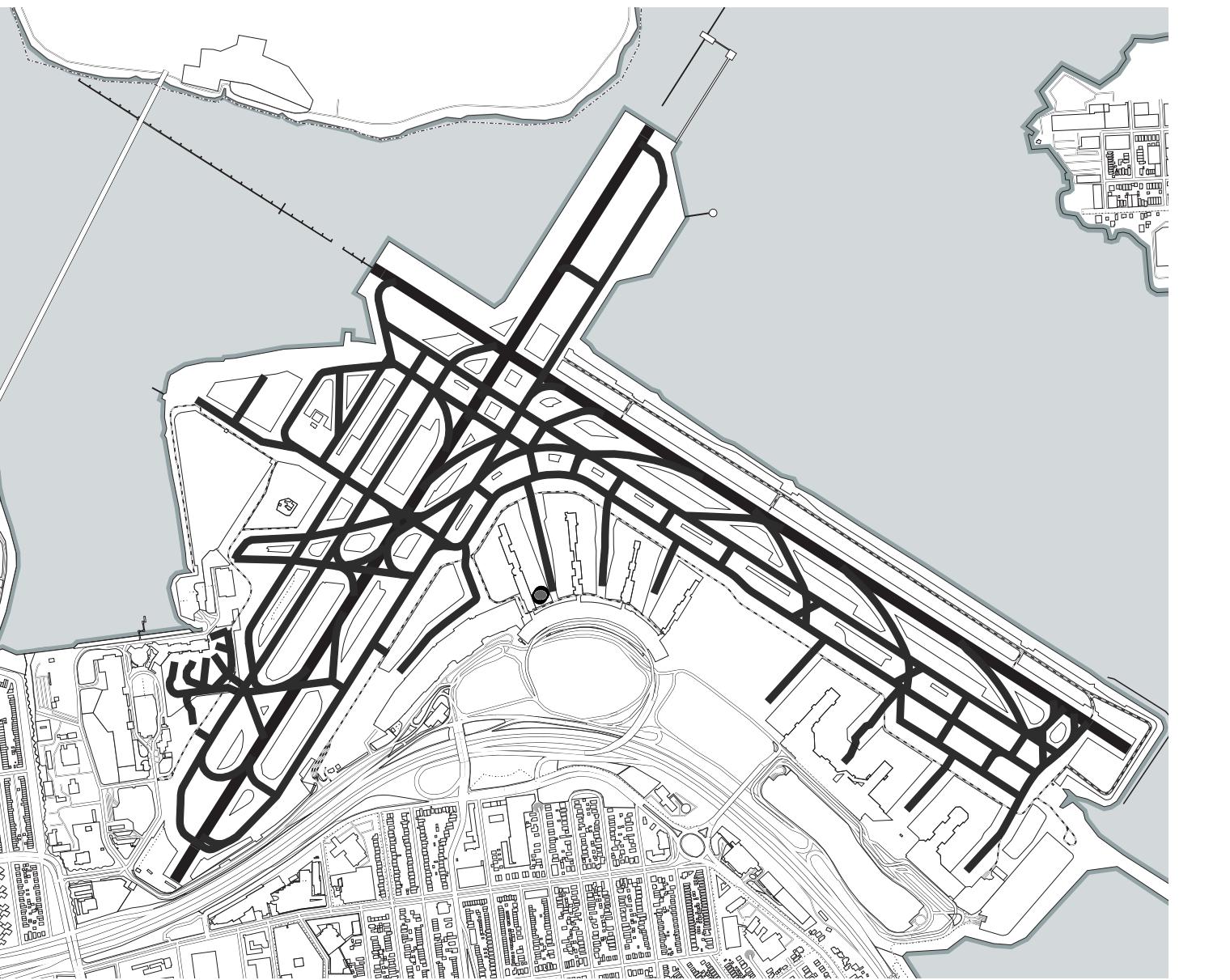
Location: Queens, New York, USA.

Professor: Philip Lee

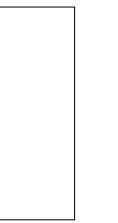
Partners: Santiago Neville & Cesar Soto

The LaGuardia Airport located in Queens, New York is the 20th busiest airport in the United States and the second busiest in the state. The airport is in the heart of the most densely populated major city in the United States, so it needs to keep up with its nonstop flights.

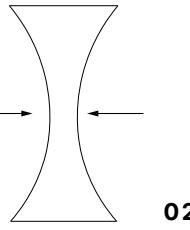
All of the third year studios were to propose a air traffic control tower for LaGuardia Airport that would also be a representation of New York City. My group and I designed a double curved façade that is also structural. The structure contains three different variations of panels, which consist of aluminum panels , glass panels and photovoltaic panels. Each placed to where the radiation of the sun hits the most. The photovoltaics in the sunniest sections, glass in the shadiest and aluminum in between the other two for transition. The body of the tower is capped with the observation deck that is inclined to create shade from the sun.



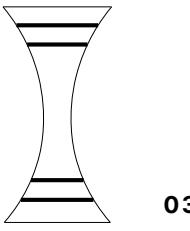
LAGUARDIA AIRPORT AND PROPOSED SITE OF AIR TRAFFIC CONTROL TOWER



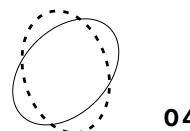
01 BLOCK



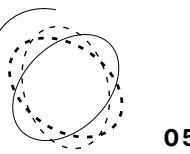
02 PINCH



03 LAYER



04 ELLIPSE



05 ROTATE

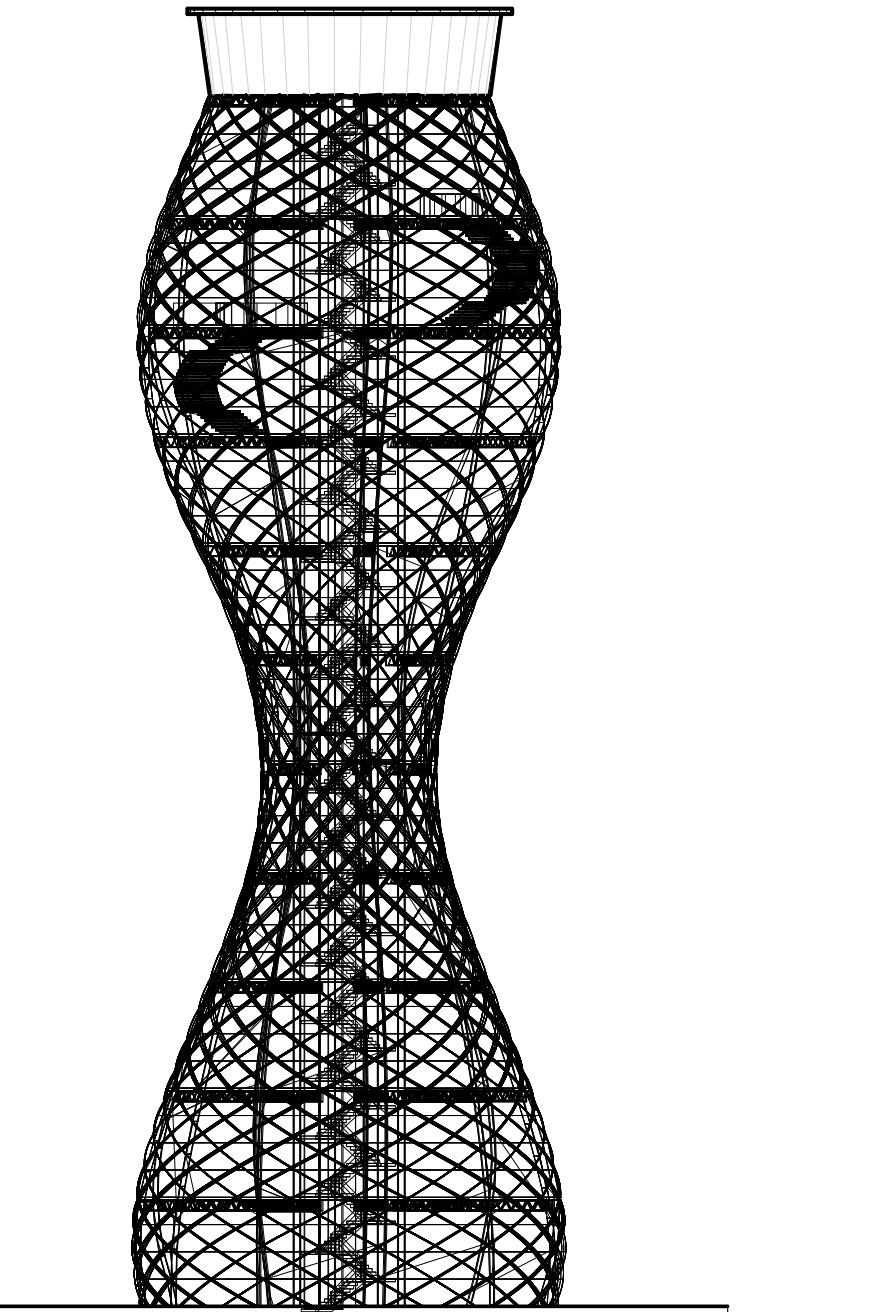
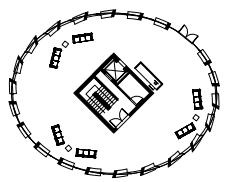


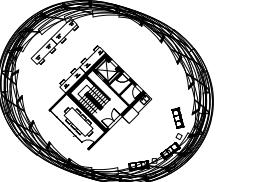
DIAGRAM SCHEME AND ELEVATION OF CONTROL TOWER



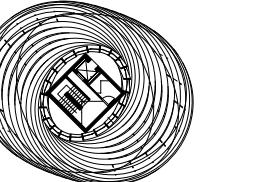
VIEW FROM THE GROUND UP



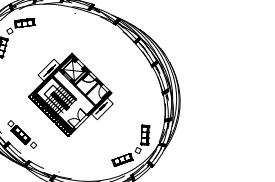
01 GROUND



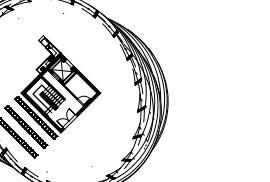
02 OFFICE



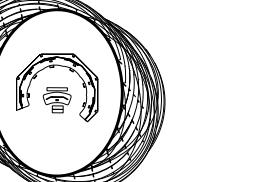
03 MEZZANINE



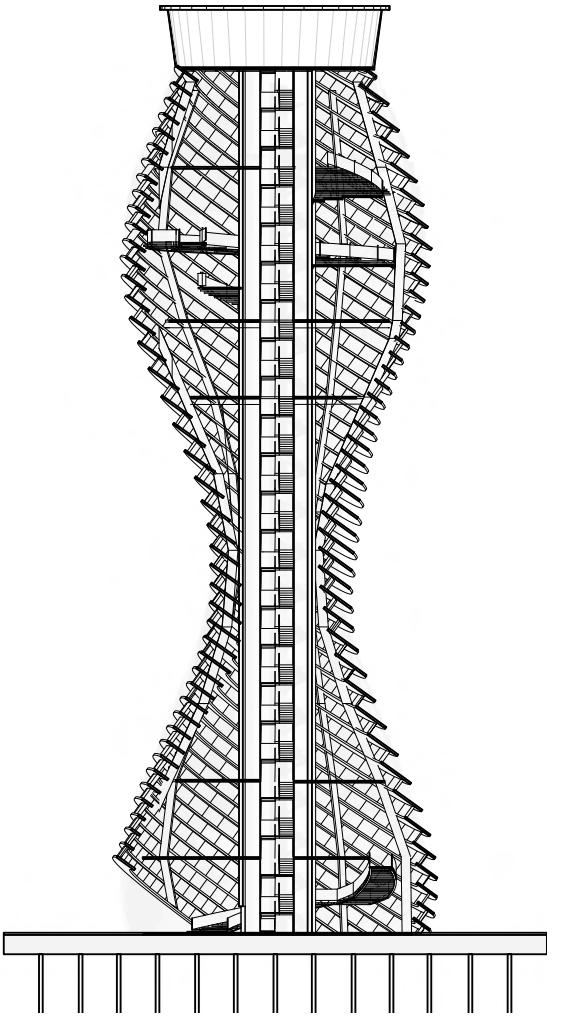
04 LOUNGE



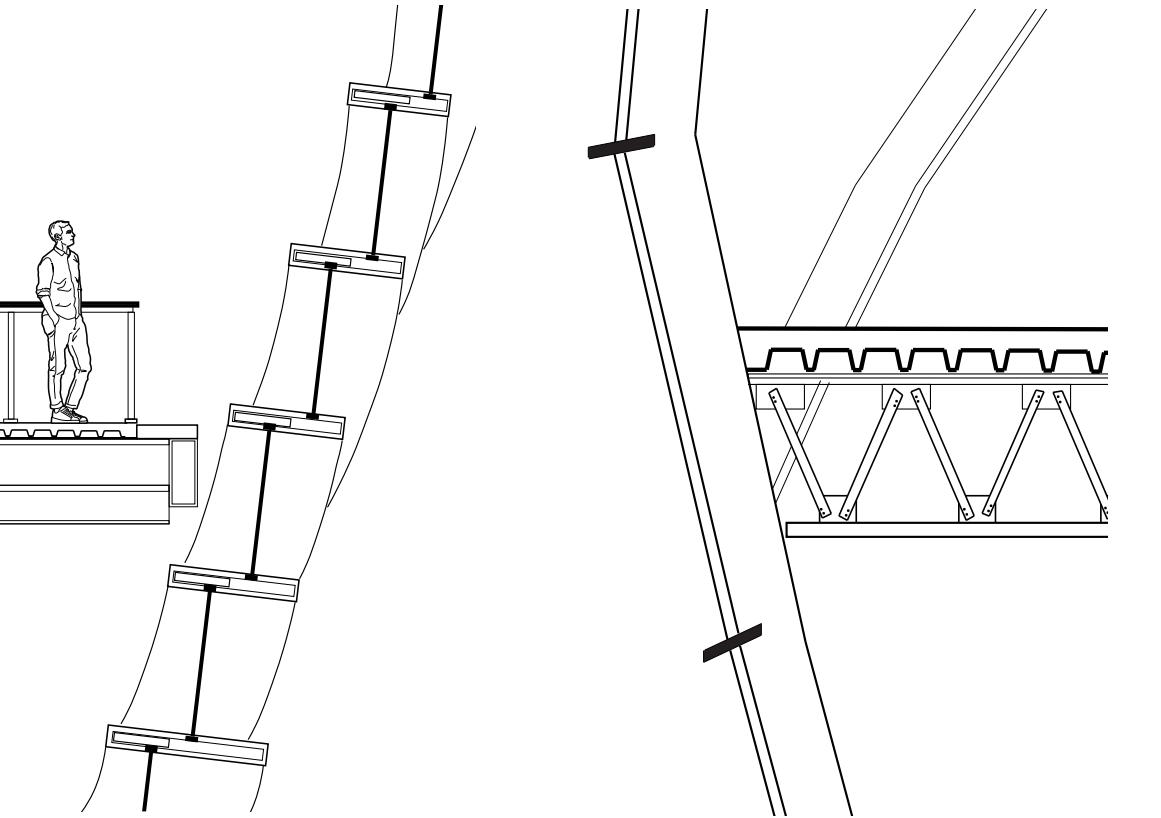
05 KITCHEN



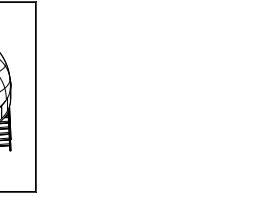
06 OBSERVATION DECK



FLOOR PLANS, SECTION AND SECTION DETAILS OF CONTROL TOWER



AERIAL VIEW LOOKING TOWARDS THE NORTH EASTERN REGION OF QUEENS

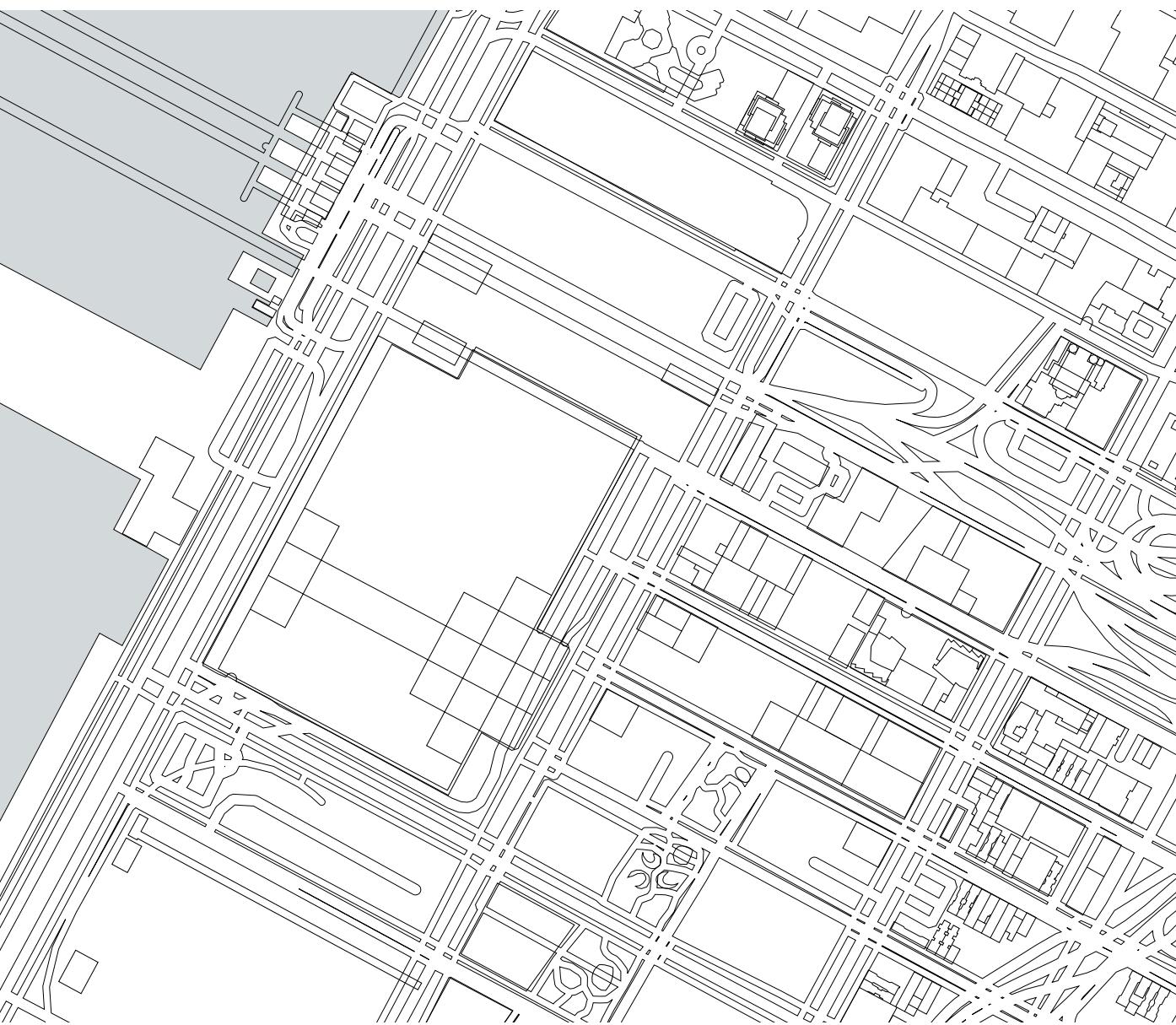


MircoHome Competition, 2020

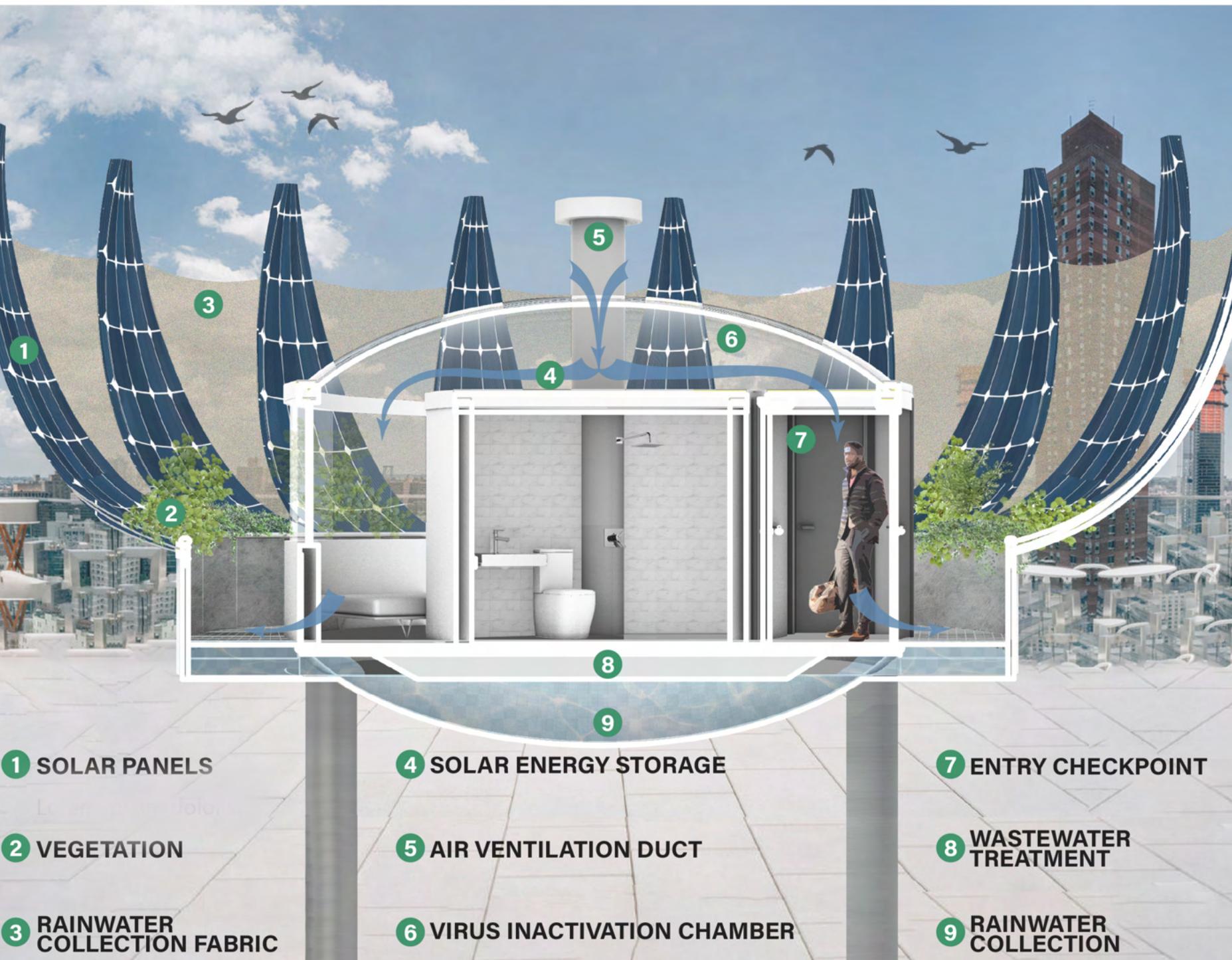
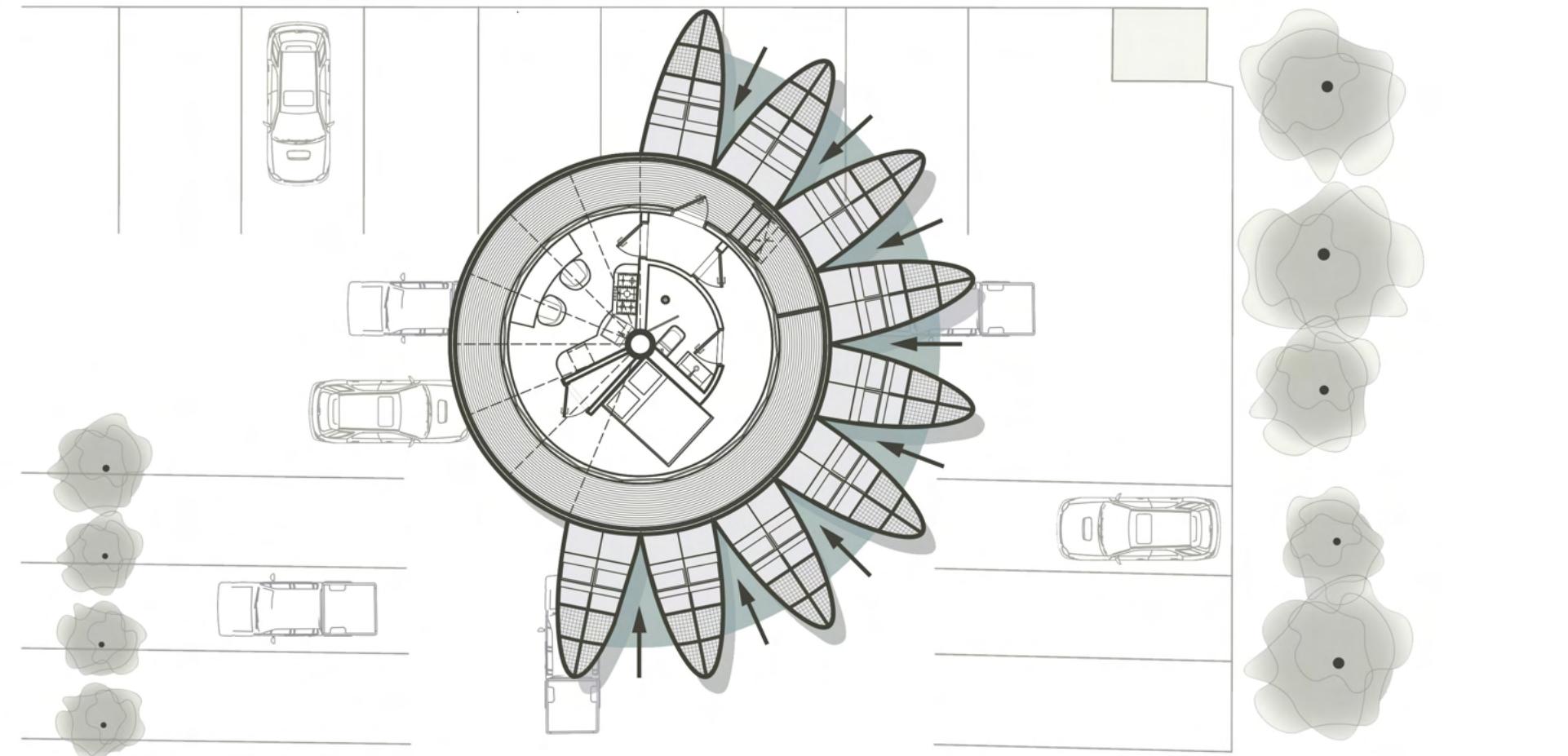
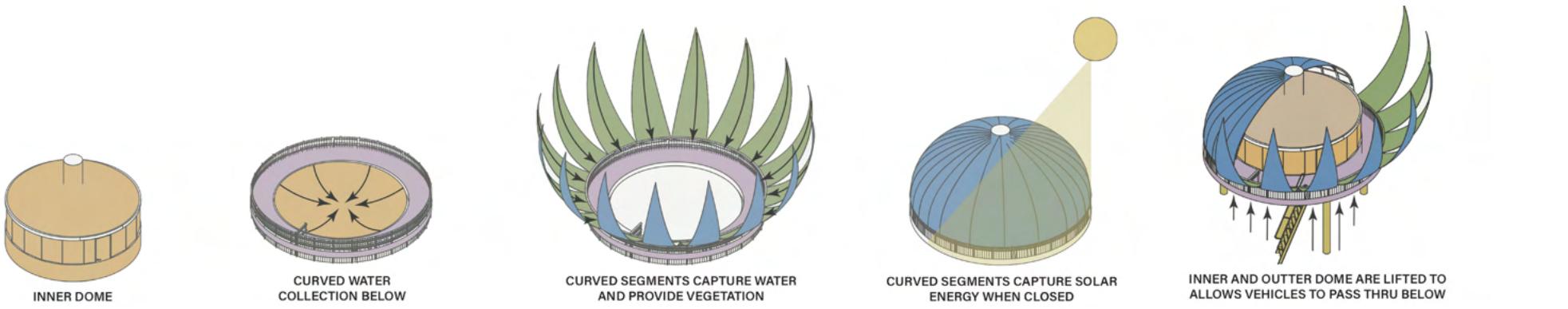
Location: New York, New York, USA.
Raymond Ho Architect, PLLC

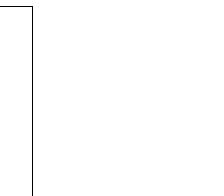
For MircoHome 2020 INTERNATIONAL ARCHITECTURE COMPETITION by Bee Breeders we designed compacted dwelling pods for a working class couple. The pod consist of the basic living necessities such as a full bathroom, a sleeping area, a kitchen and outdoor lounge space that would ideally look over the city. These pods are to be placed anywhere within the tight knit landscape of New York City. The home has rainwater collection, solar panels, and vegetation cultivation.

The architect, Raymond Ho and I thought of the concept on how we can create a dwelling that could be placed anywhere and would not disturb the cityscape.



HUDSON YARDS WAS A LOCATION WE CHOSE DUE TO MULTIPLE CAR LOTS THAT HAD LARGE OPEN LAND THAT WOULD NOT BRING DISTURBANCE TO THE HECTIC CITY STREETS.





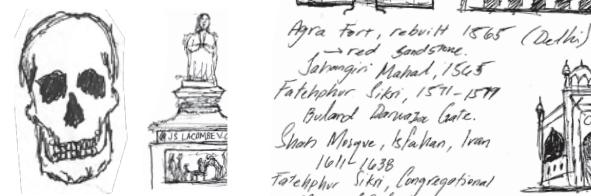
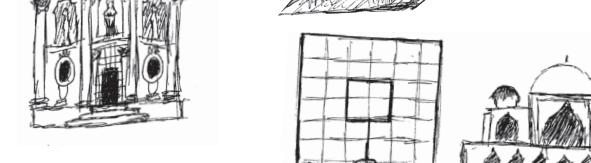
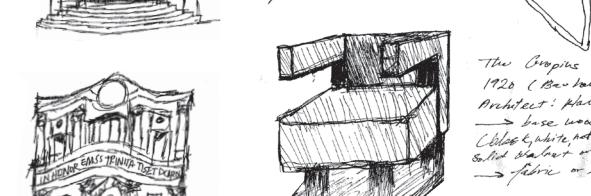
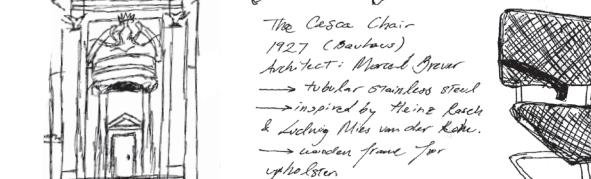
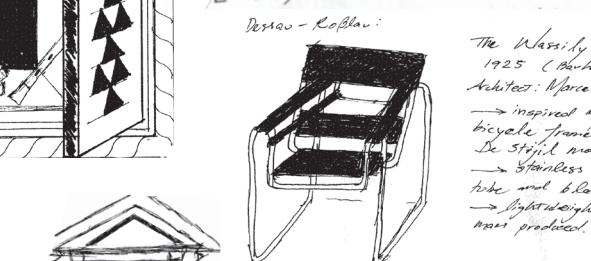
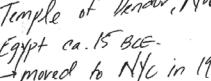
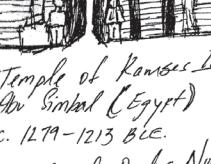
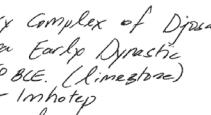
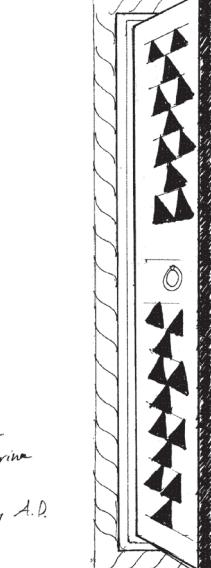
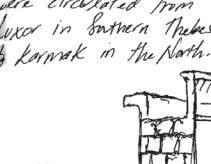
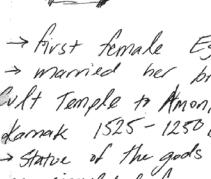
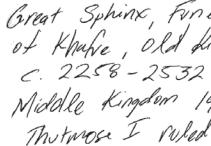
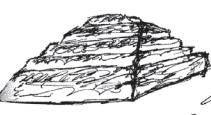
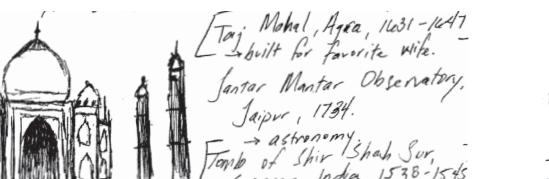
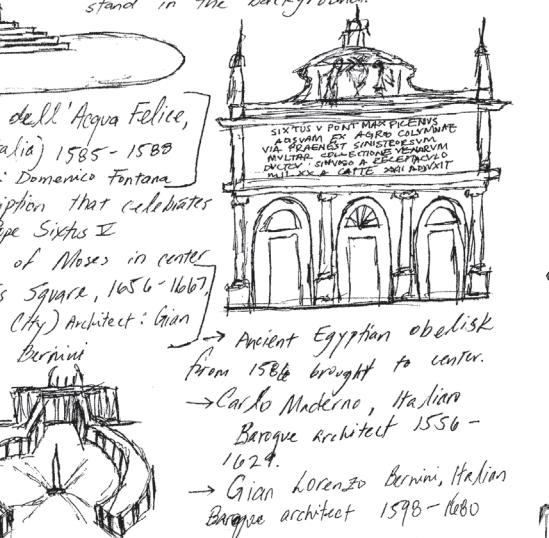
ok, 2018

New York, USA.
Gutman

ture program requires students to take four semesters of architecture in our first years. We are required to take notes on paper to better obtain the information. Every year the School of Architecture holds a competition for the best survey notebook in the class. The chosen notebook is archived in the school's library and given an award. I was awarded for the best 2018 by professor Marta Gutman and had the privilege of my book archived in Spitzer's School of Architecture for everyone to see.

He displays segments of my notebook's sketches and notes during Survey I, II, III and IV.

Rome
Martyrdom of Saint Matthew, Caravaggio (painting)
1600, San Luigi dei Francesi (Rome, Italia)
¹⁶ Century
Sixtus V, 1589 (Leader of the Roman Arch)
Latin catholic church (catholic orthodox)
His Praelate basis A Sixtus V Pio IV (Rome,
1588) Giovanni Francesco Borromeo
Piazza del Popolo, 1811-1822 (Rome, Italia)
Architect: Giuseppe Valadier (Neoclassical)
→ Egyptian obelisk of Ramesses II from
Heliopolis, Egypt stands in the middle.
→ Twin churches of Santa Maria in
Montesanto and Santa Maria dei Miracoli
stand in the background.



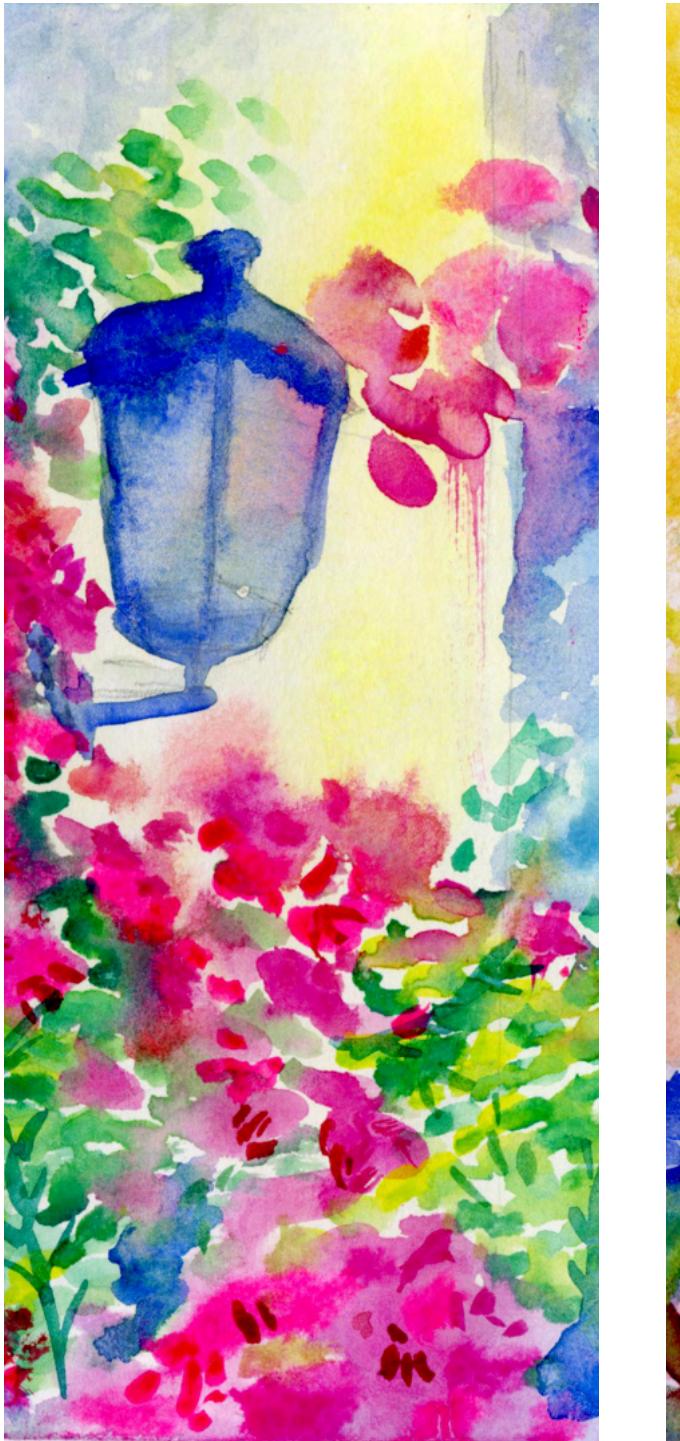


Watercoloring, 2020

Location: New York, New York, USA.

In my personal passime I like to get away from work by water coloring, specifically landscape or floral arrangements. The feeling of painting with watercolor is truly therapeutic. The paintings I have done are inspired by locations I would want to visit in the future or have visited. All the paintings were done with Koi Water Color Travel Kit.





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