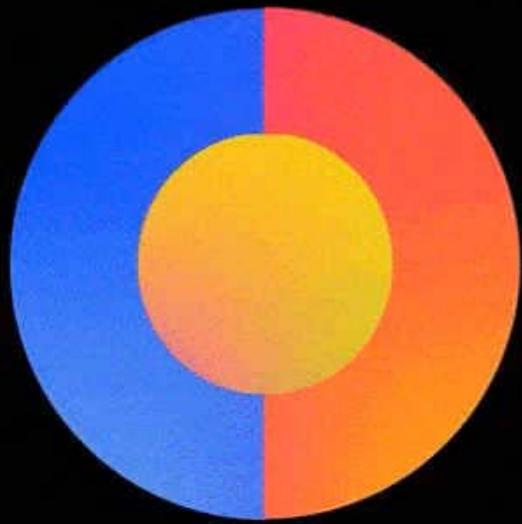
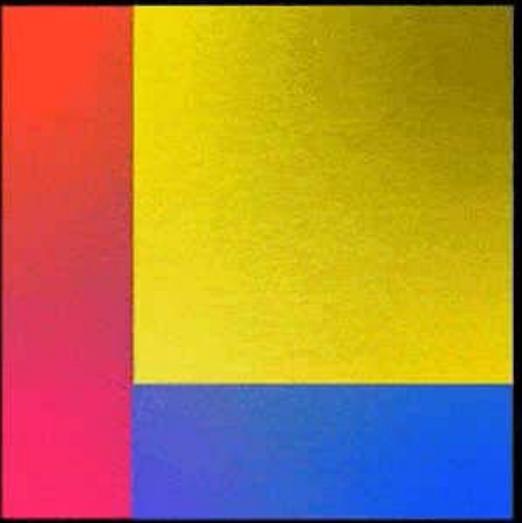
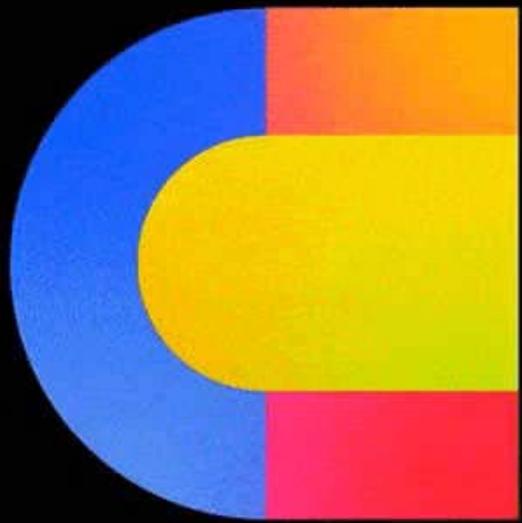


CHI UN LEE

_volume 4



_cv	#02
_about	#04
_academic	#06
_competitions	#28
_other works	#48

_architecture + design

_university of waterloo

RESUME

Hi There!

My name is Chi Un Lee and I am currently enrolled in my third year of study at the University of Waterloo School of Architecture.

The following is a collection of works that I was able to take part in throughout my studies.

Please enjoy!

education

2017_present

UNIVERSITY OF WATERLOO SCHOOL OF ARCHITECTURE
Candidate for Bachelor of Architectural Studies Honours Co-op

2020

HARVARDX
CS50

2013_2017

ST. THERESA OF LISIEUX CHS
Ontario Secondary School Diploma

experience

2020

PRODUCT DEVELOPER
ArchiHacks

2020

INTERN DESIGNER/WEB DESIGNER
Mesh Architectures

2019

INTERN STUDENT ARCHITECT
Moriyama & Teshima Architects

2019

RESEARCH ASSISTANT/ ILLUSTRATOR
Christie Pearson Architects

2019

STUDENT DESIGNER
Baldassarra Architects Inc

distinctions

2017_2020

EXCELLENT ACADEMIC STANDING, UNIVERSITY OF WATERLOO

2020

CISC EXCELLENCE AWARD IN STEEL DESIGN

2020

YEAR END EXHIBITION OF EXEMPLARY STUDENT WORK

2019

RECOGNIZED IDEA, DOTS | FOR THE BLIND COMPETITION

2019

TOP SHORTLIST, HYBRID WORK X FLY TALL BUILDING COMPETITION

2018

EXHIBITION, BRIDGE CENTRE FOR ARCHITECTURE & DESIGN

2018

FINALIST, ARCHSTORMING WORLD EXPOS DESIGN COMPETITION

2018

FINALIST, STUDIO BLEAK CLIMATE OF DISSENT COMPETITION

2017

WINNER + BUILT, WATERLOO ARTS QUAD OUTDOOR SPACES

2017

PRESIDENT'S SCHOLARSHIP

abilities

DIGITAL

Rhinoceros 3D
SketchUp
AutoCAD
3DS Max
V-Ray
Maxwell Render

ANALOG

Grasshopper
Adobe Suite
Microsoft Office
C/ C#
Java
Processing

LANGUAGES

English
Spanish
Korean
French (Basic)
Physical Modeling



BALDASSARRA
Architects

May 7, 2019

To whom it may concern,

We are pleased to provide this reference letter on behalf Chi Un Lee for the time and effort he dedicated to our firm as part of a 4-month co-op term at Baldassarra Architects from January, 2019 – April, 2019.

During his time at Baldassarra Architects, Chi assisted in the Design Department through the delivery of high-quality 3D model renderings and by providing support in the output of architectural site plans and working drawings. Throughout his time at the firm, Chi consistently displayed dedication and the aptitude to complete assigned tasks. He exhibited a calm, professional demeanor and was a pleasure to have in the work environment. His strengths lie in understanding 3dimensional space and using computer generated modelling to produce renderings in an efficient manner. Chi utilized and displayed competence in several software programs during his placement including AutoCAD, SketchUp, and Adobe Photoshop.

We are happy to provide additional reference information as required.

Regards,

A handwritten signature in black ink, appearing to read "Michael".

Michael Baldassarra MBA, BASc
Baldassarra Architects Inc.

MORIYAMA & TESHIMA ARCHITECTS

117 George Street
Toronto Ontario
Canada M5A 2N4
Telephone: 416 925 4484
Fax: 416 925 4637

January 14, 2020

Regarding: Reference Letter for Chi Un Lee
University of Waterloo
School of Architecture

To Whom it May Concern:

Chi Un Lee was a co-op student at Moriyama & Teshima from September to December 2019. Over that period Chi worked with a number of teams on a variety of projects at different stages of completion. The scope of his work included proposal submissions, design competitions and schematic design for several large - scale, high profile projects.

Chi was an excellent team player and demonstrated a tremendous work ethic with a great attitude. Over the course of his co-op period, he worked with partners, principals and project managers, seeking direction as needed and contributing in terms of discussion and drawing skills. He worked hard and often completed tasks before the actual deadline.

We enthusiastically endorse and recommend Chi to future employers.

We think he has a bright future ahead of him.

Sincerely

MORIYAMA & TESHIMA ARCHITECTS

A handwritten signature in black ink, appearing to read "Daniel".

Daniel Teramura, B.Sc(CE), M.Arch, OAA, AAA, NSAA, AIBC, FRAIC
Partner

Copy: Patricia Allen – Evans, MTA

AAV



ACADEMIC

_above sherbourne	#08
_heterotopia	#16
_cleanse	#20

ABOVE SHERBOURNE

The design of the project focuses on three movements: the preservation of the Victorian houses that exemplify Toronto's early history between 1840 to 1930, the Sherbourne Lanes infill housing scheme that represents the improbable victory of a local community over a large developer in the 1970s, and a new residential layer that will revitalize the neighbourhood by creating a communal skylane above the infill housing scheme (inspired by Yona Friedman's early architecture).

The project proposes to elevate a new addition to the existing Diamond Myers building without relying upon the existing structure. The project is heavily inspired by the works of Yona Friedman, which takes a look at the Ville Spatiale, an urbanist proposal that enables the growth of cities while restraining land use through its small building footprint (on ground). This concept mainly brushes upon the concept of mobile architecture where people gain control of the usage in the 'floating buildings' by either utilizing the space for living or working.

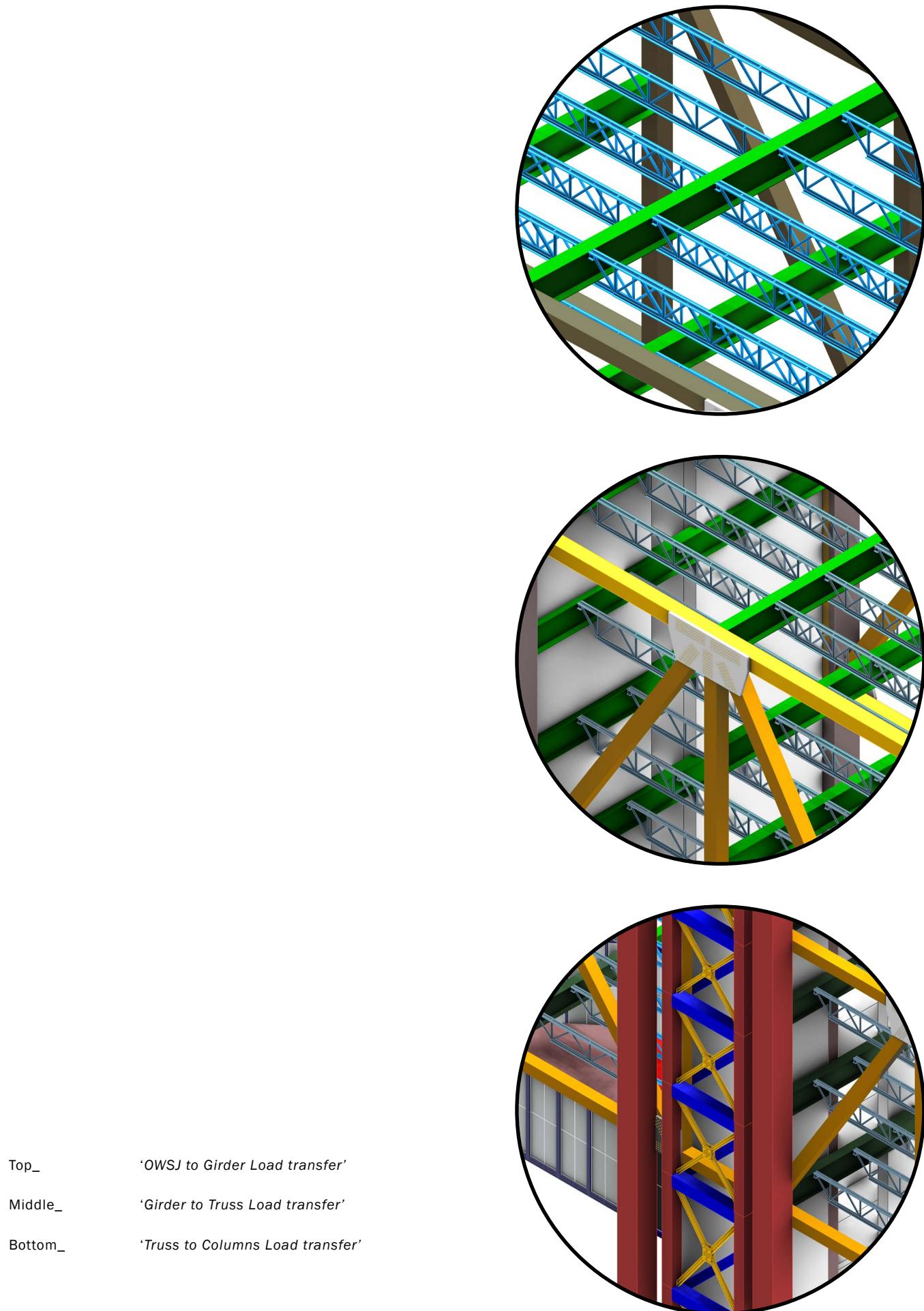
Raising the new addition of the building

as residential spaces, also allows for a spacious void in between the new and old buildings. The spacious void positioned between highly populated residential masses become communal spaces that allow congregation between the residents in the site. The communal spaces include a gym, a winter garden, a playground, a makerspace and a communal office/ work spaces. These programs are connected by a long, dynamic passageway that narrates the journey along Sherbourne Lanes. While doing so, it celebrates the laneway heritage of the site by becoming the fourth lane of Sherbourne as well as the only floating Sherbourne lane.

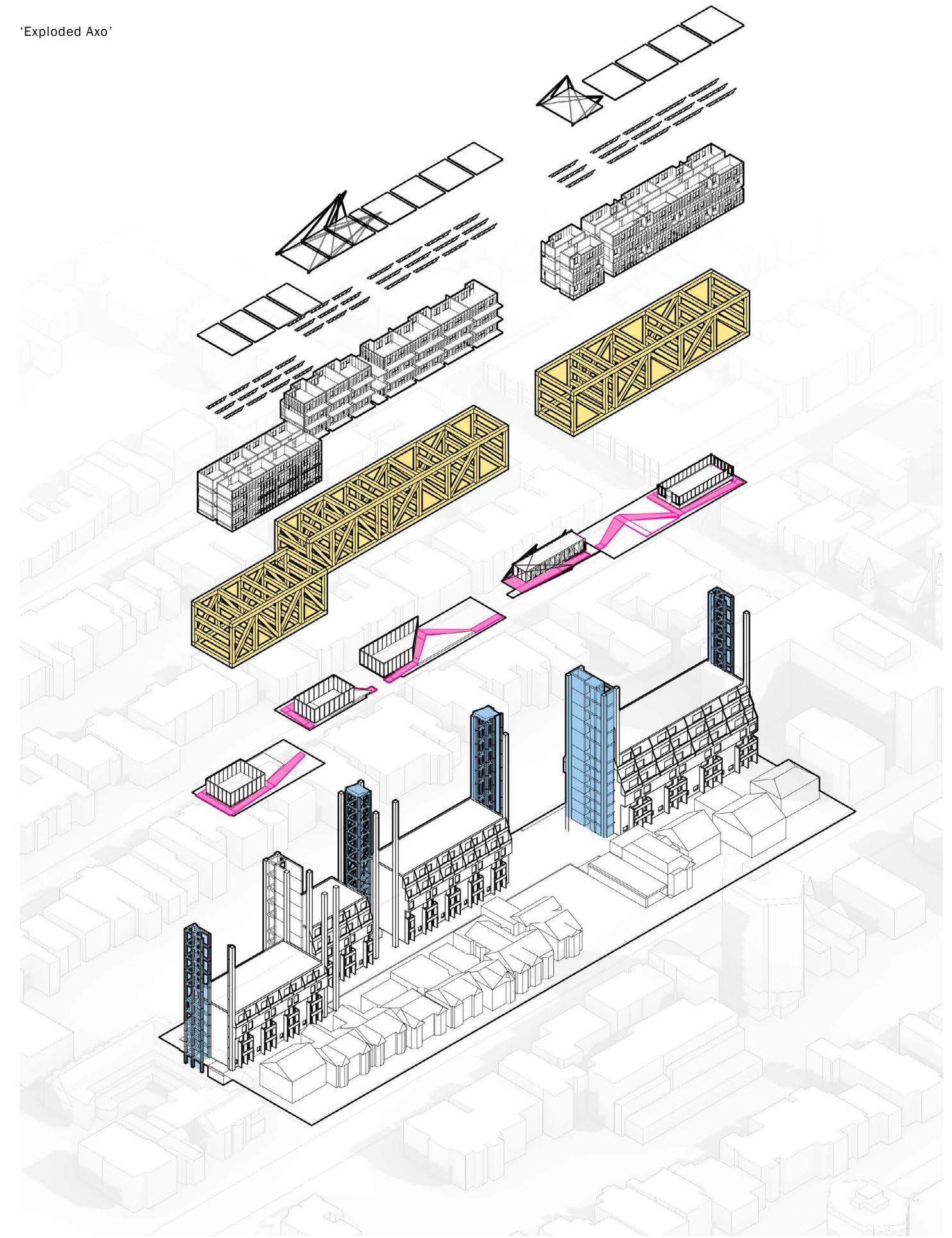
The main structure of the building uses steel truss, girders and HSS members to create the long spanning additions floating above the existing buildings with strong vertical columns. The project also demonstrates steel's flexibility in its ability to be used for any member of an architectural system, while also harmoniously working with pre-existing materials on site, which includes timber panels and concrete shear walls.

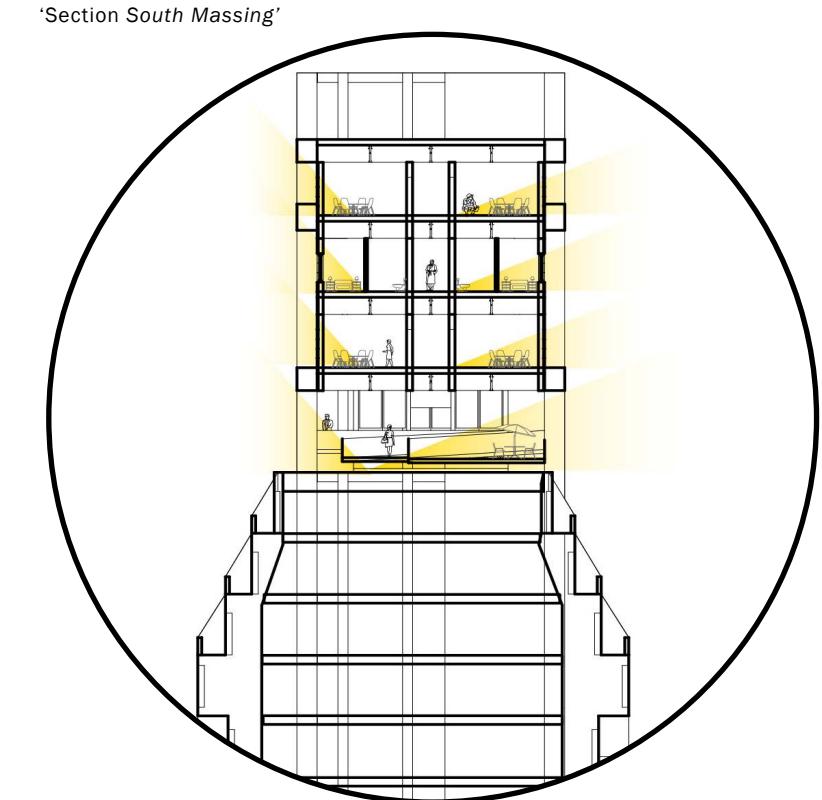
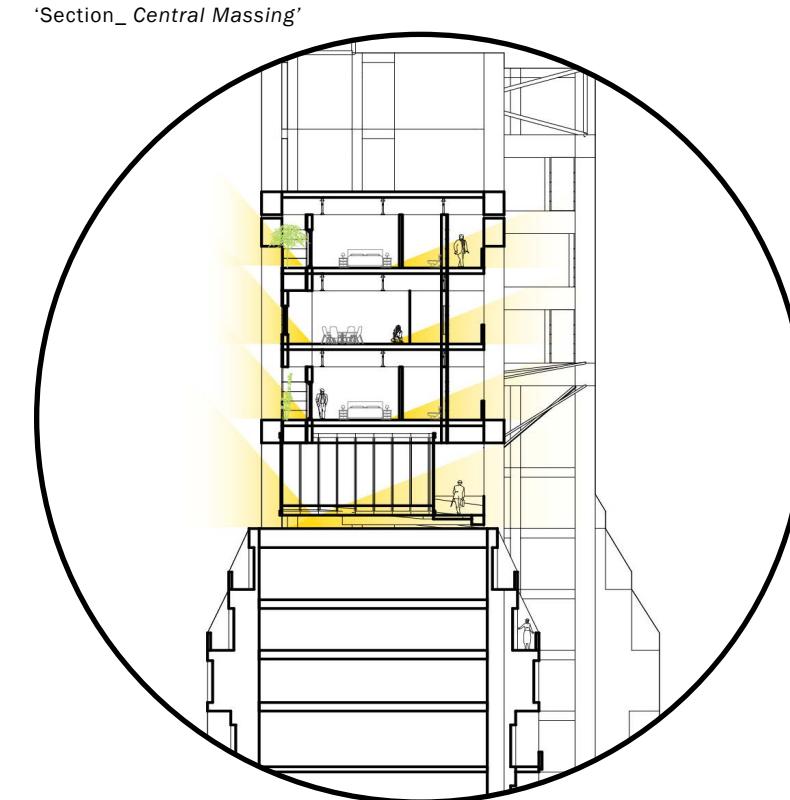
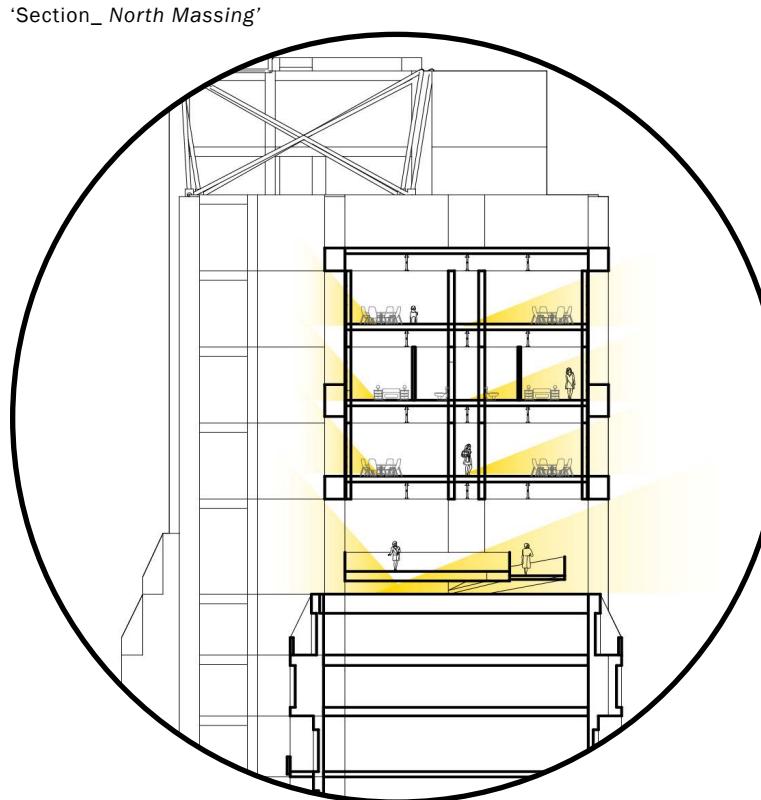
Year_ 2020
 Team_ Individual Work
 Type_ Residential Housing
 Site_ Toronto, Ontario
 Recognition_ Recipient of the CISC Award of Excellence in Steel Design





'Exploded Axo'





'Long Section'

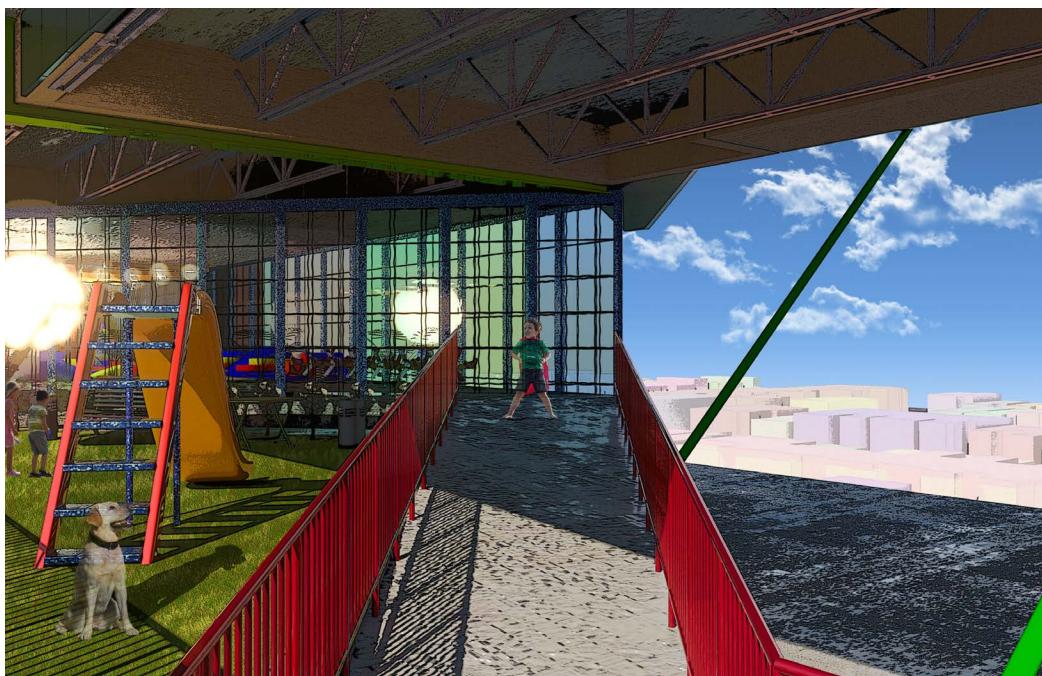




'Perspective_Residential Hallway'



'Perspective_Wormview'



'Perspective_Public Circulation'



'Exterior_Elevation'

HETEROTPIA COUNTERPOINT

You look up, trying to see how far the stilts extend; A dense fog obscures the extent of the massive columns you move up through the transparent shaft between pillars which grow tall into the sky.

The earth shrinks below your feet before dissolving into mist. You are caught between earth and sky. The columns around you transform into a forest, which emerge from a terraced valley, all pressed beneath a soft, sloped canopy. As you navigate up the flowing layers you push past chattering folk, who live close to their substance, close to the fields and among the animals and observe the gathered masses in the sacred Circle.

You move to escape the chthonic womb below, certain it will soon devour you. And after passing through a floor are relieved to find a more well-maintained space above, gathered between 2 planes, a marketplace, full of diverse activity. Commerce is booming. You meander through the streets, beset by shops

and vendors who compete for your attention and money, You stumble into the writhing mass. Gradually you slow, and find yourself in a steady flow of people, streaming around a copper platform all in an void

You follow, ascending into the belly of a dark pyramid, a bright light above you, hope: a temple, held high by a concrete tower. In time, you emerge through the floors into a symmetrical hall, immaculately white you follow the others the air here is crisp and odourless.

Through the glass see the walls, dignified marble-clad towers rise rightly above the topography below, raised on a grid of pilotis which remove them from the earth. Looking out through to the city below, the distant people move like ants in a line, and your skin seems to fit wrong. You are at once too big, and too small: reality is too far removed, yet still crystalline in its clarity you blink. your body aches.

Year_ 2018

Team_ Annie W., Ben H., Bill CM T., Christa H., Sparsh G.

Type_ Conceptual City

Recognition_ Exhibited in Bridge Gallery

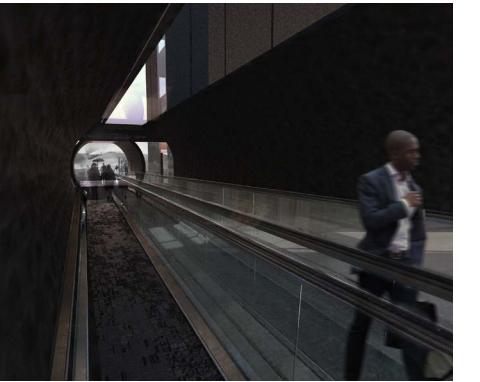




Perspective_ 'The Substrate'



Perspective_ 'The Membrane'

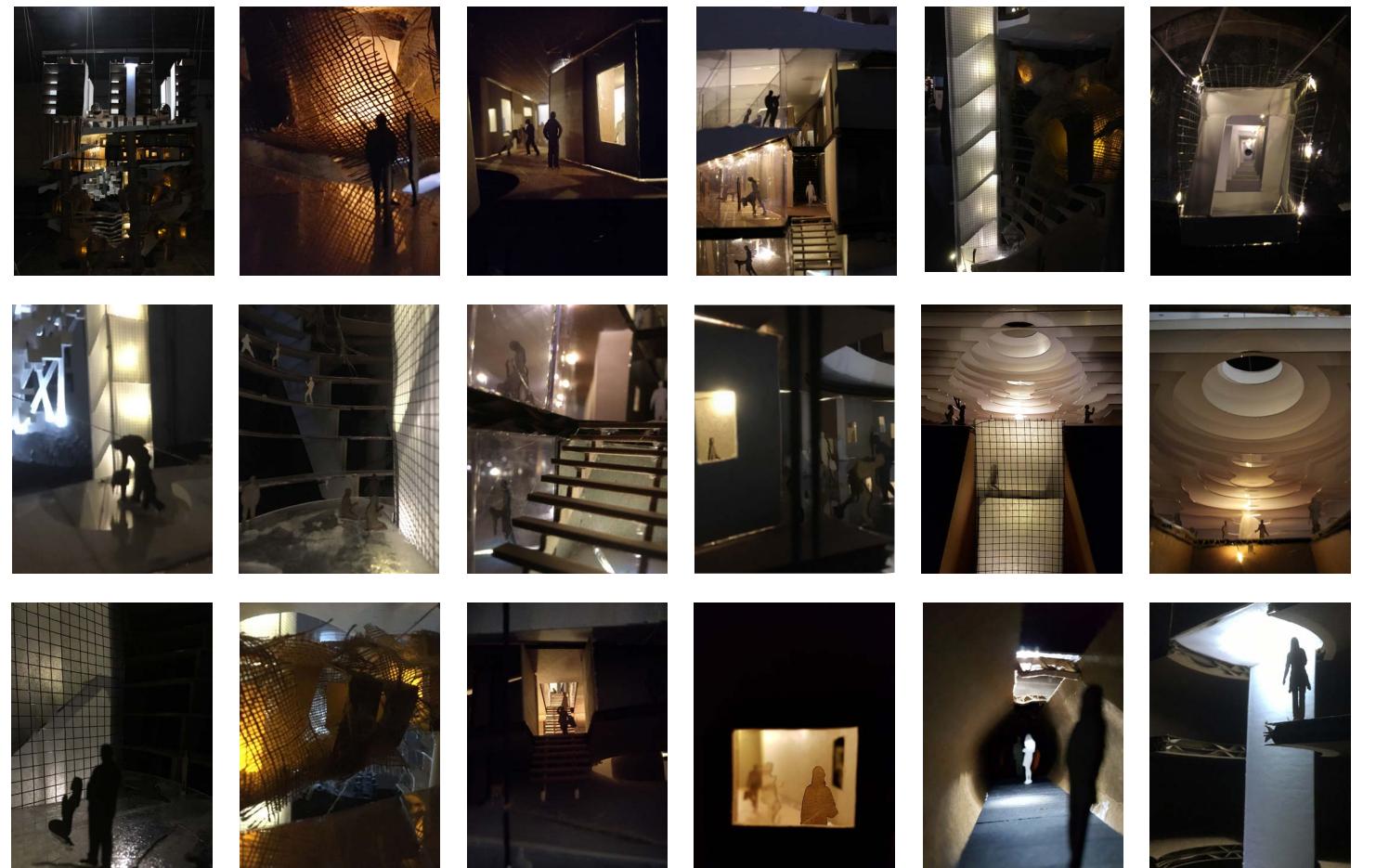


Perspective_ 'The Superstrate'

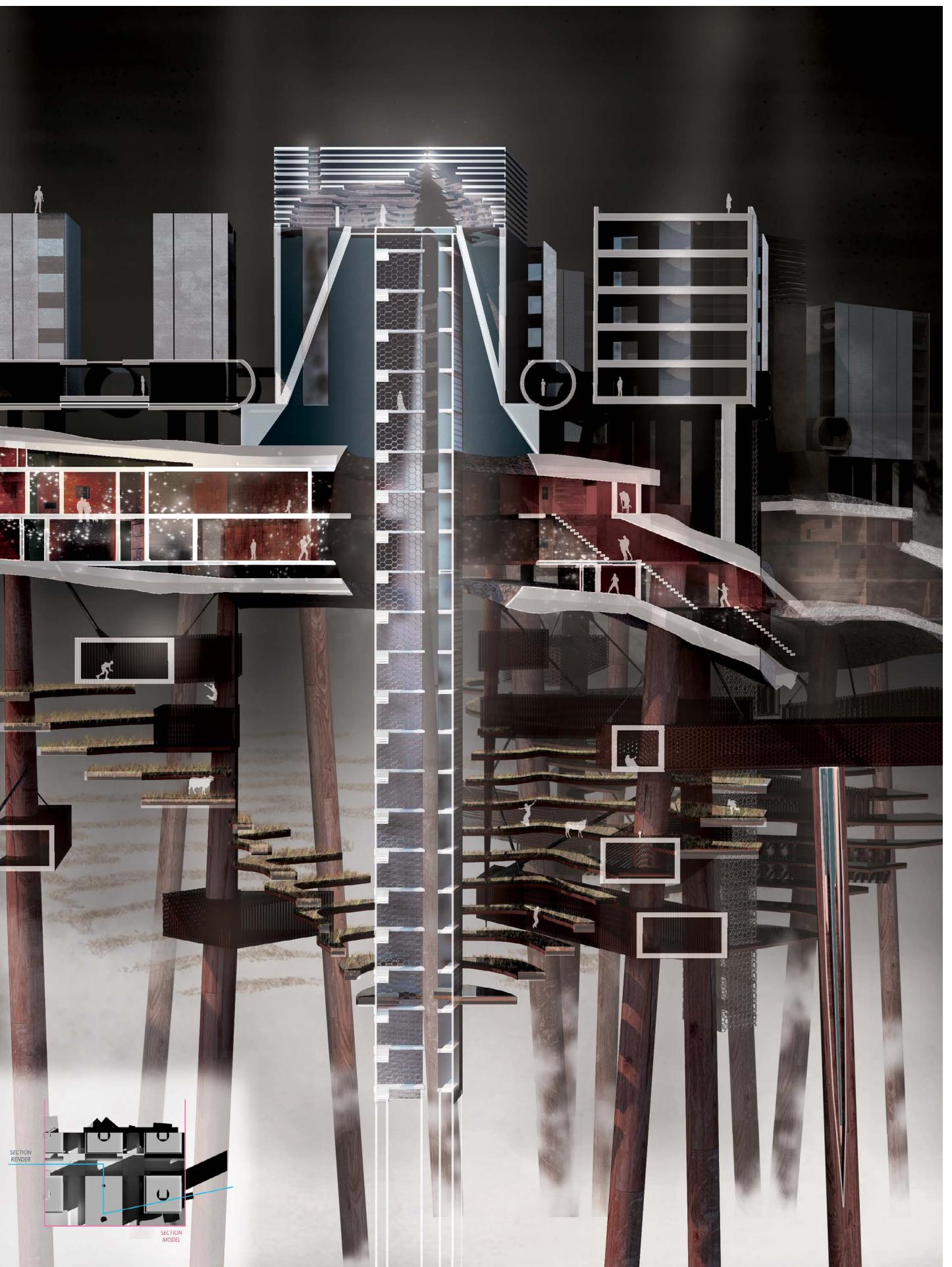
The Substrate exists in the lowest level of the Heterotopic City Counterpoint. It takes the form similar to pastoral architecture as the area is supposed to symbolize a low income society that runs in a free manner.

The Membrane is the middle ground, the connector of the substrate and the superstrate. It takes a wide range of forms from commercial architecture. This area connects the people and culture of the substrate and superstate, which creates a chaotic atmosphere.

The Superstrate is located in the uppermost canopies of Counterpoint. With the society here consisting of higher class, structured beings, everyone has an abundance of monetary values but lack freedom. The architecture can be characterized as authoritarian.



Right_ 'Perspective Section of Heterotopia: Counterpoint'



CLEANSE

//A thermographic interpretation.

Due to heavy industrialization in the Grand River Watershed in the early 20th century, the introduction of pesticides from the farming industry polluted the Grand river significantly. When looked from afar, in the span between the Shand Dam and Galt, there is a rise in pH levels, water temperature. Not to mention, river data also shows high levels of phosphorus and nitrogen due to wastewater.

The project intends to solve the river quality in Galt in order to protect the surrounding ecosystem in the area as well as to create an engaging space for residents of the town while preserving the town's industrial personality. This led to the choosing of three main components: the reincorporation of the power station, aquatic species preservation and addressing water quality. Taking inspiration from new water filtration systems, including living systems and crystallizers for wastewater treatment,

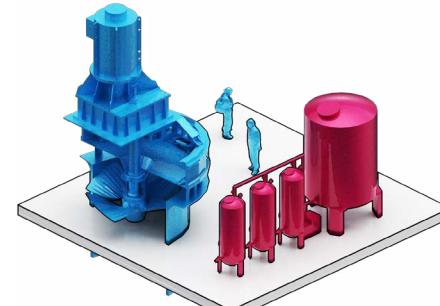
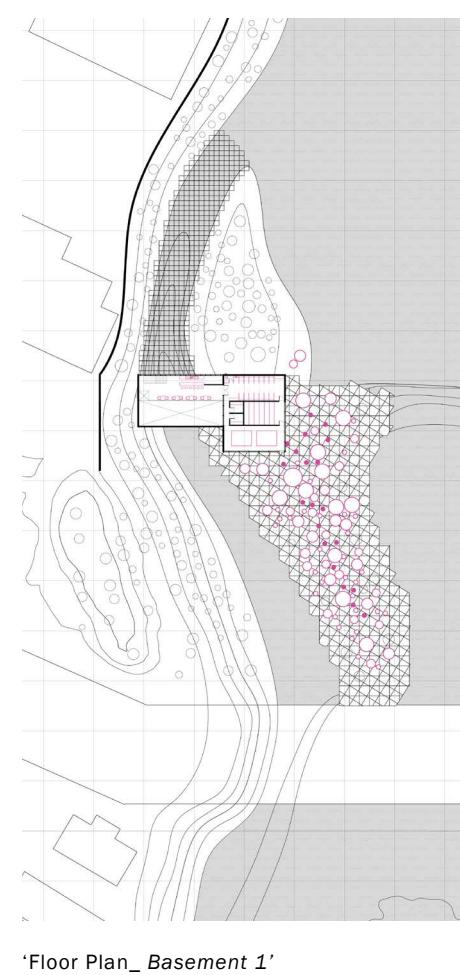
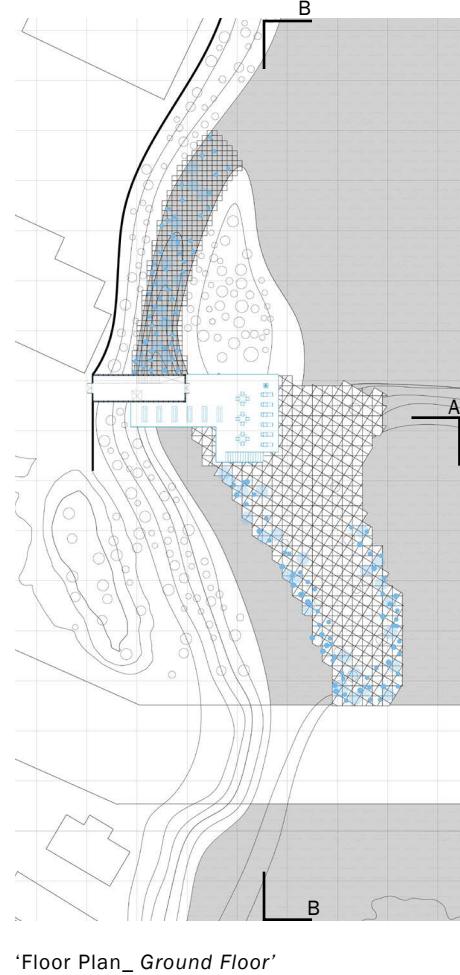
which involves boiling to separate mixed solids from the river water, the project became a filtration device that filters the flowing river water more efficiently with living systems and man-made systems.

The powerstation at the same time would generate enough power for over 500 homes in the Galt area, while also providing aid to the filtration system using a sophisticated heat recovery system, which would efficiently recycle energy that would otherwise be wasted onto the boiling mechanism of the crystallization process for wastewater treatment.

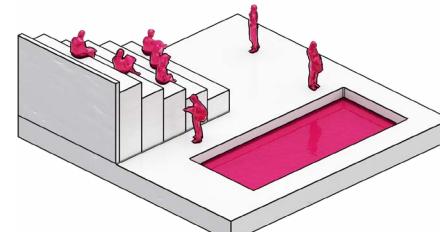
The newly cleansed water would then be used as a new public amenity for Galt: a bath house that would bring the community closer to one another as well as act as a cooling system to lead back to the river as temperature is an essential factor for the surrounding ecosystem, especially for two threatened species that spawn in the area.

Year_ 2019
 Team_ Individual Work
 Type_ Hydroelectric Powerstation
 Site_ Galt, Ontario
 Recognition_ Featured in the Year End Exhibition 2020

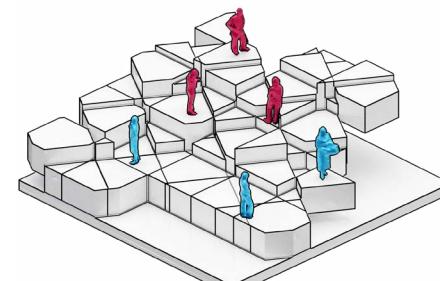




Diagram_ 'Mechanical Room'



Diagram_ 'Sauna Space'



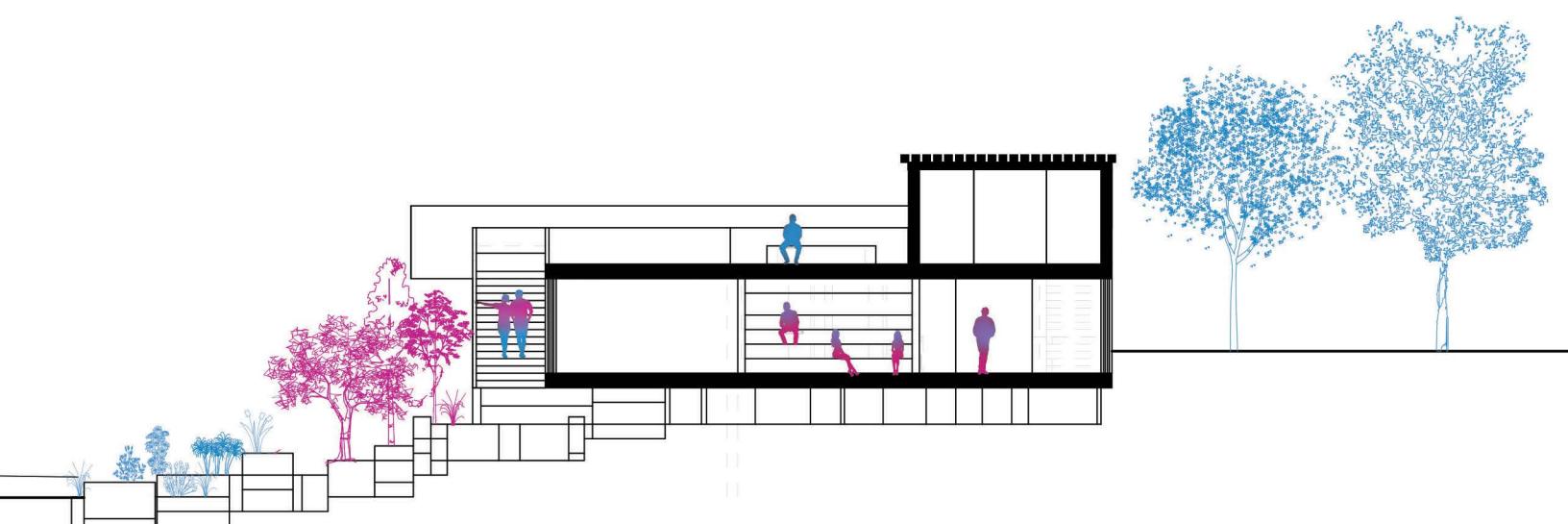
Diagram_ 'Landscaping'



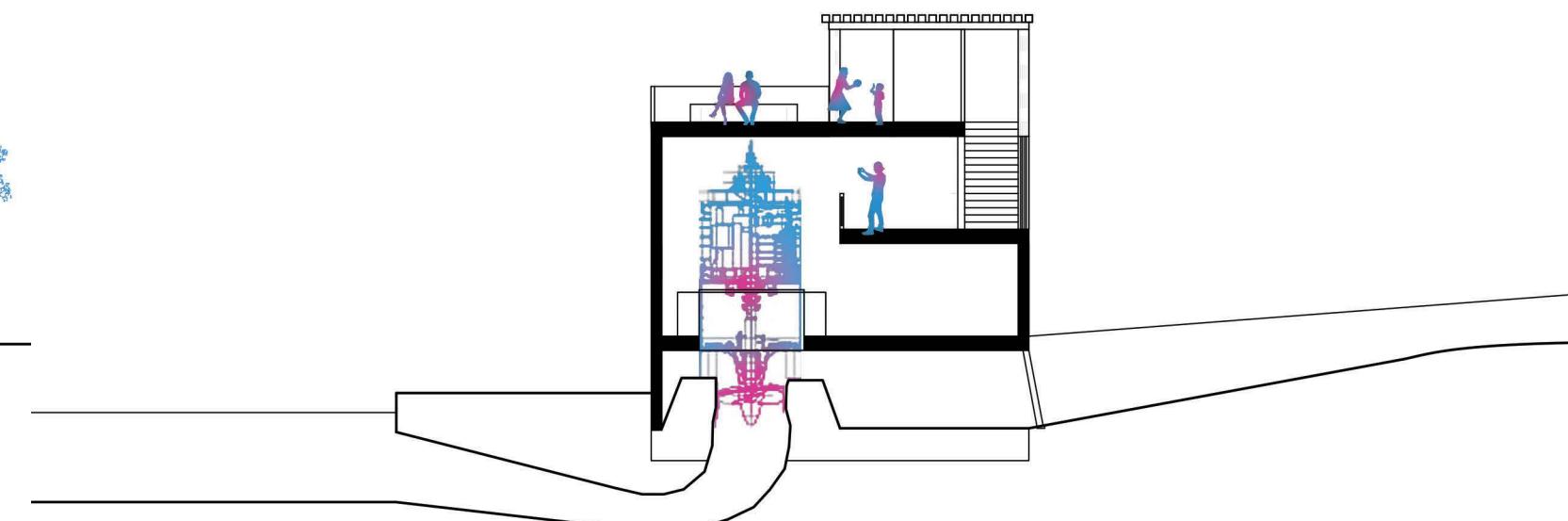
Experimental Model_ 'Water Experimentation'



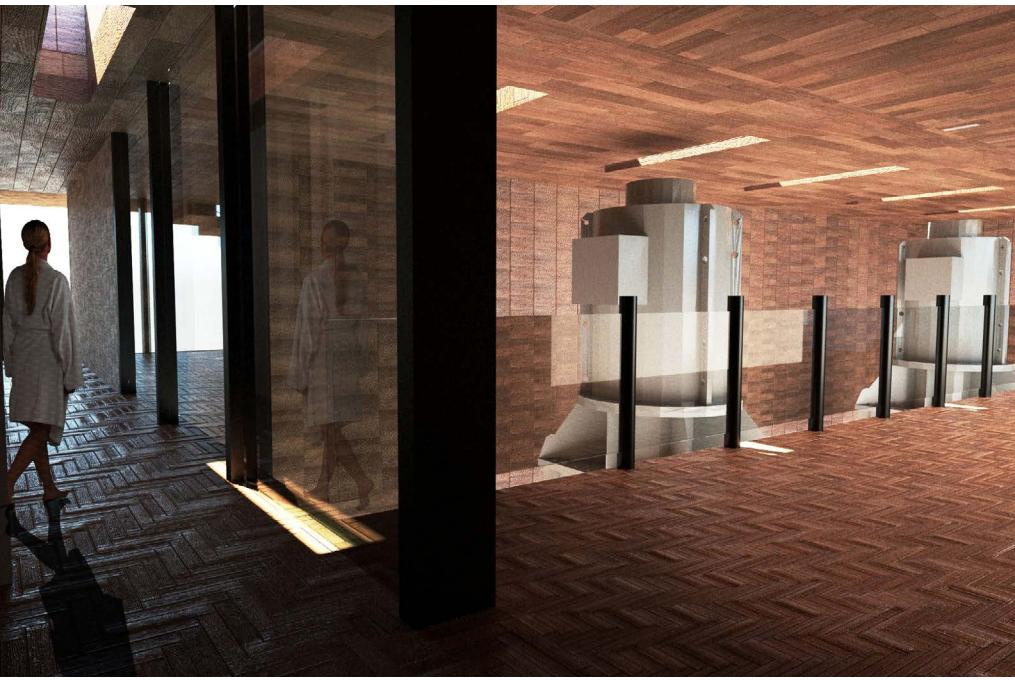
Experimental Model_ 'Resin Experimentation'



'Longitudinal Section A-A'



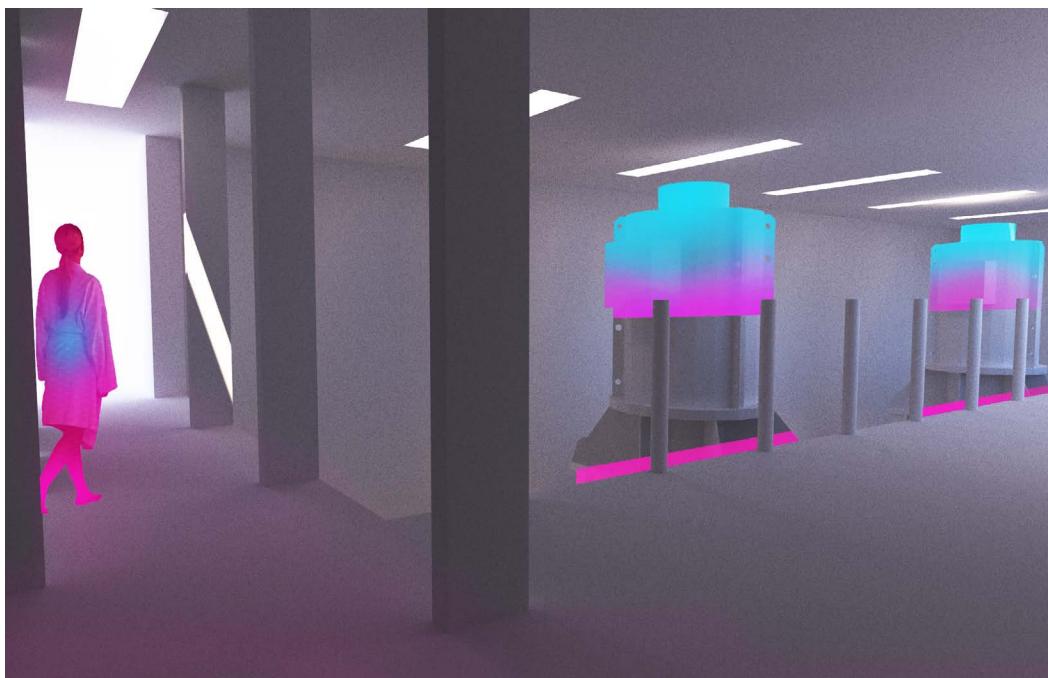
'Cross Section B-B'



'Perspective_Mechanical Room'



'Perspective_Sauna'



'Thermographic Interpretation'



'Thermographic Interpretation'



'Perspective_Balcony'



'Thermographic Interpretation'

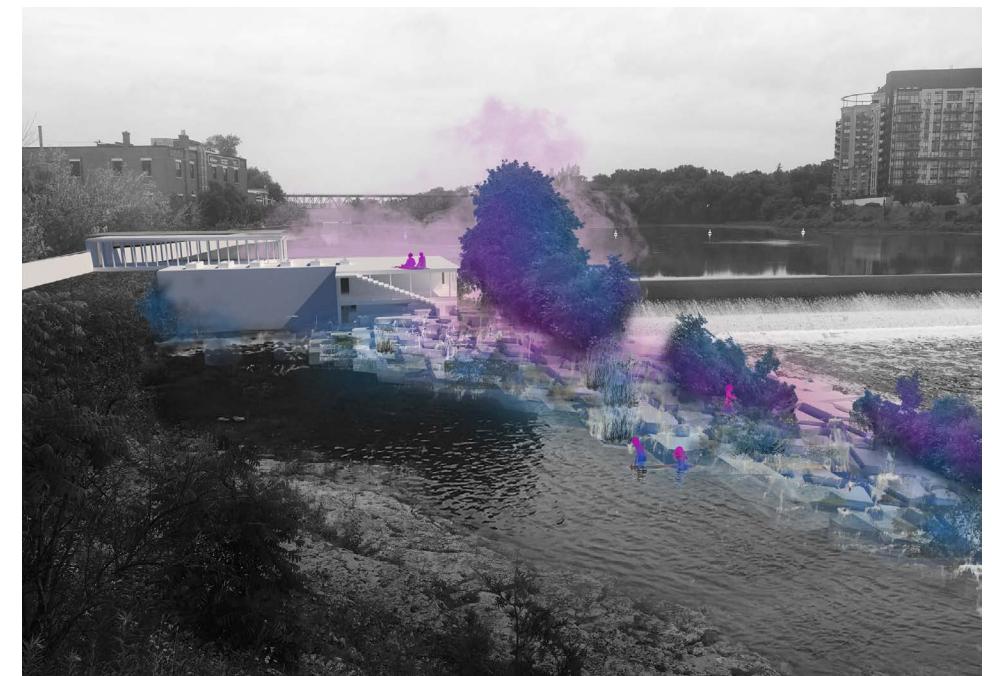


Top_

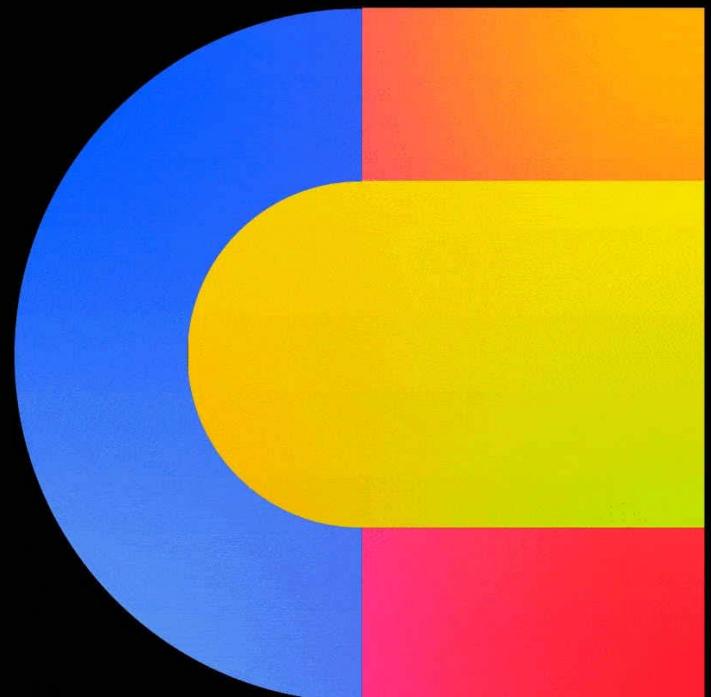
'Rendering of the
hydropower station
from the bridge.'

Bottom_

'Thermographic
interpretation.'



COMPETITIONS



- _resilient commune #30
- _gaia #36
- _sound mound #42

RESILIENT COMMUNE

The Resilient Design Institute states, "Resilience is the capacity to adapt to changing conditions and to maintain or regain functionality and vitality in the face of stress or disturbance. It is the capacity to bounce back after a disturbance or interruption."

After storms have passed, what will people find in its wake? How can we further the theme of resilience beyond tangible, and protect people's will to live on afterwards? Our investigation begins in the context of a small town in Thailand.

Thailand is an eclectic nation with much of its tradition intact that has met modernity in this fantastic fusion. Thailand is home of growing tourist industry based on its rich cultural heritage that has survived test of time. These traditions are passed through oral, written, and built narratives. One

center pieces of Wat Noi's founding story involves this temple. Wat Noi Temple is the town's economical, as well as people's emotional and spiritual backbone. Sadly however, it has fallen to constant flooding and subsequent disrepair.

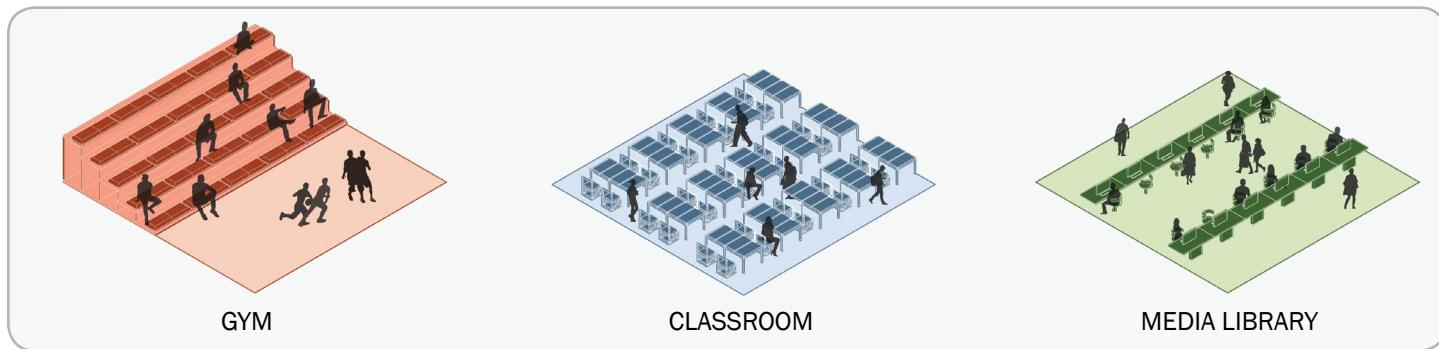
We believe that resilient architecture not only survive through elemental disasters and shelter local residents, but also provide salvation of people's spirit. In the context of Thailand, where natural disasters are closely related to superstition, our contextual response was to also protect this monument. Our proposal fulfills the basic requirement of shelter, and further provides the inner comfort.

Houses can be rebuilt after the storm, but the symbol of town's history cannot be recovered overnight.

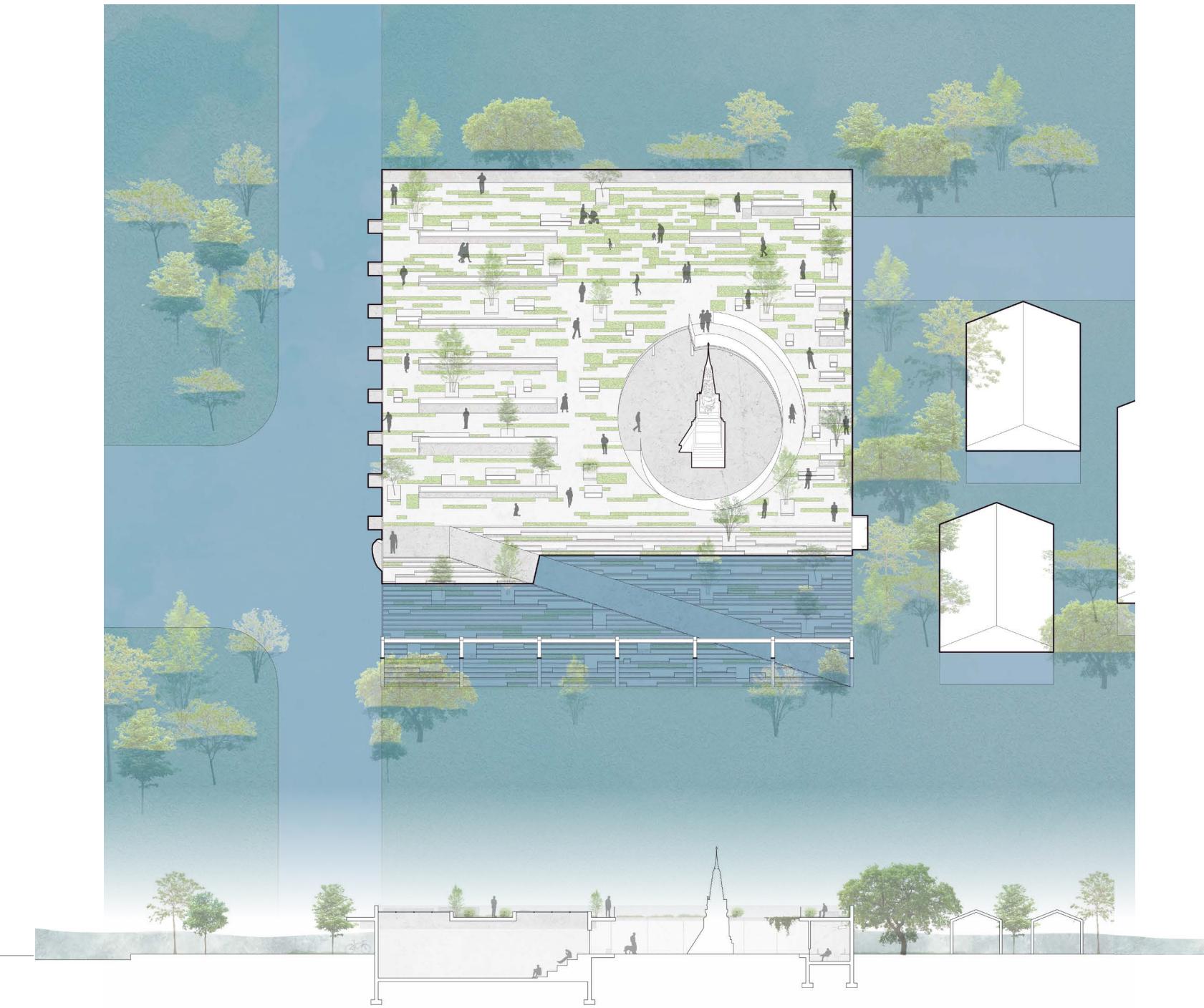
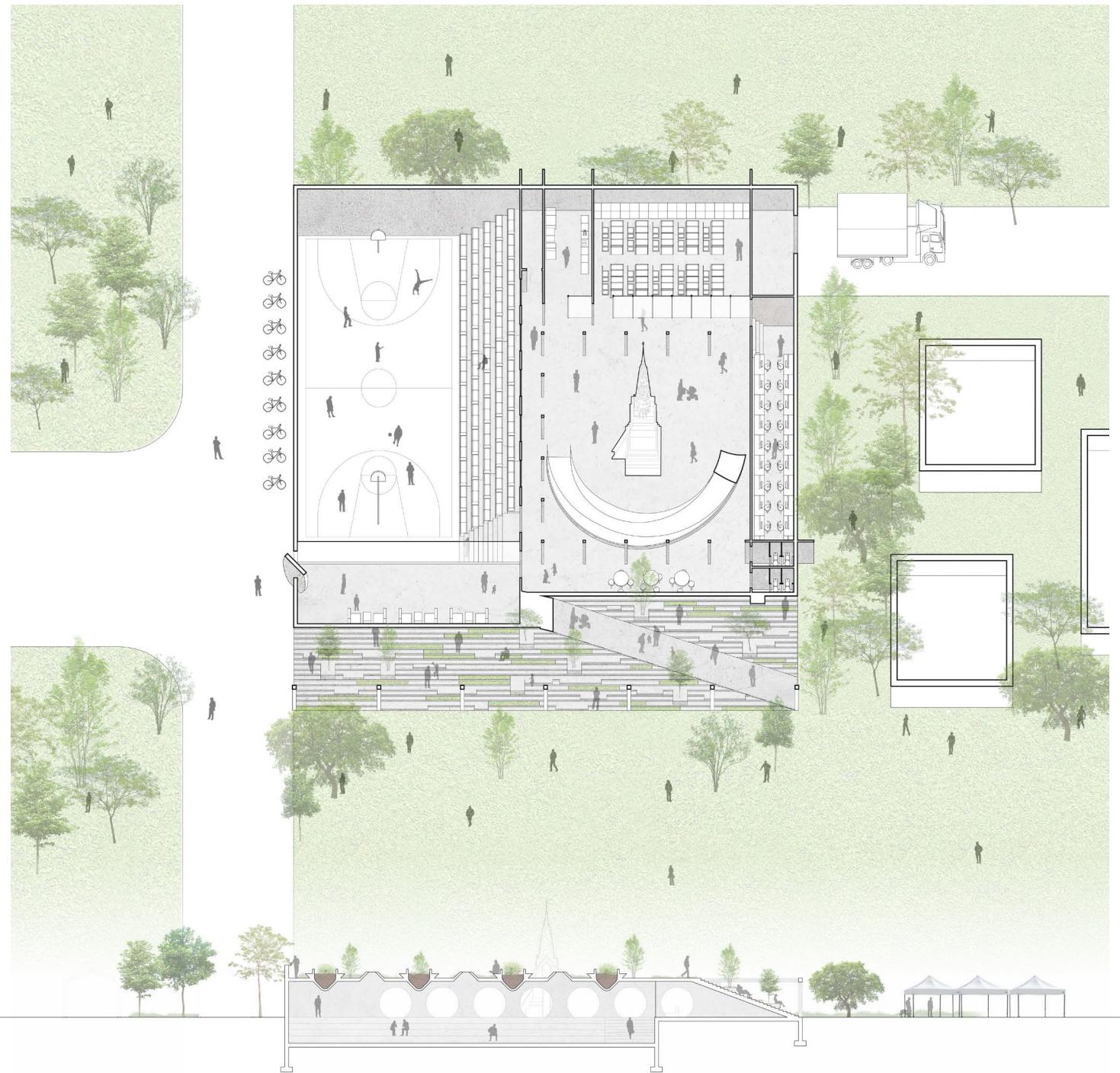
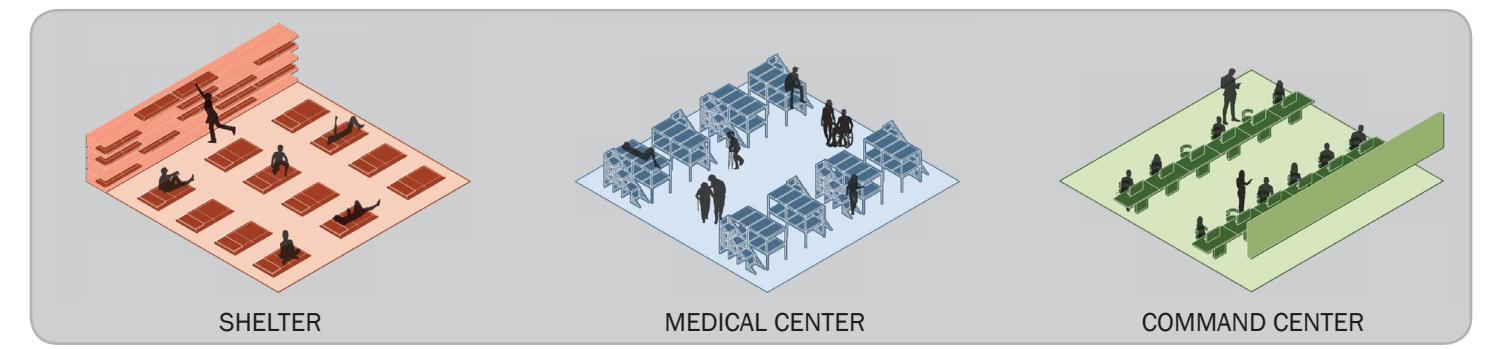
Year_ 2019
 Team_ Bennett Oh, Lyric Barnik
 Type_ Community Centre
 Site_ Nan, Thailand

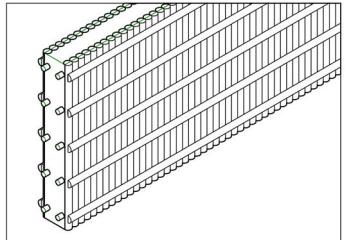
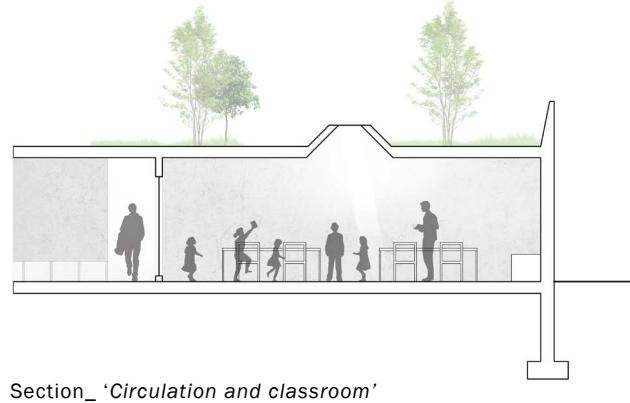
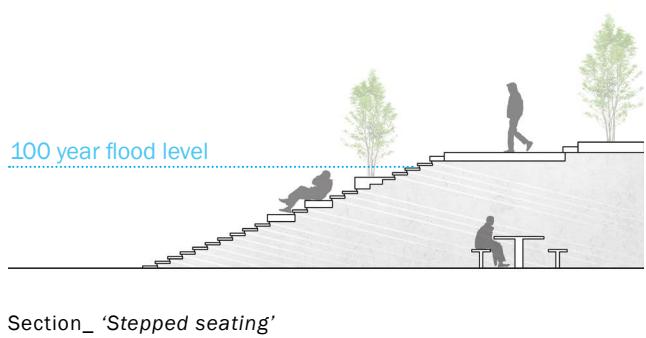
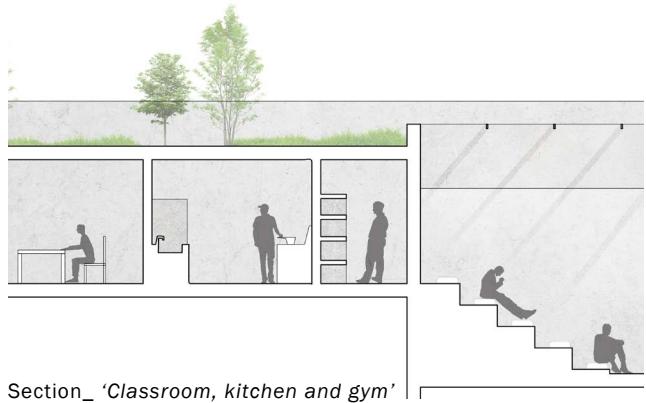


REGULAR OPERATION

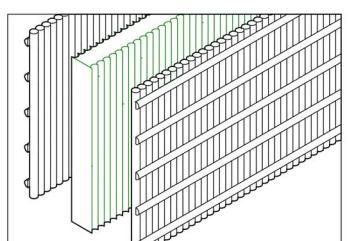


DISASTER SITUATION

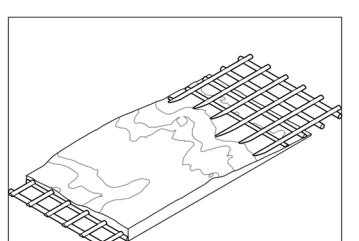




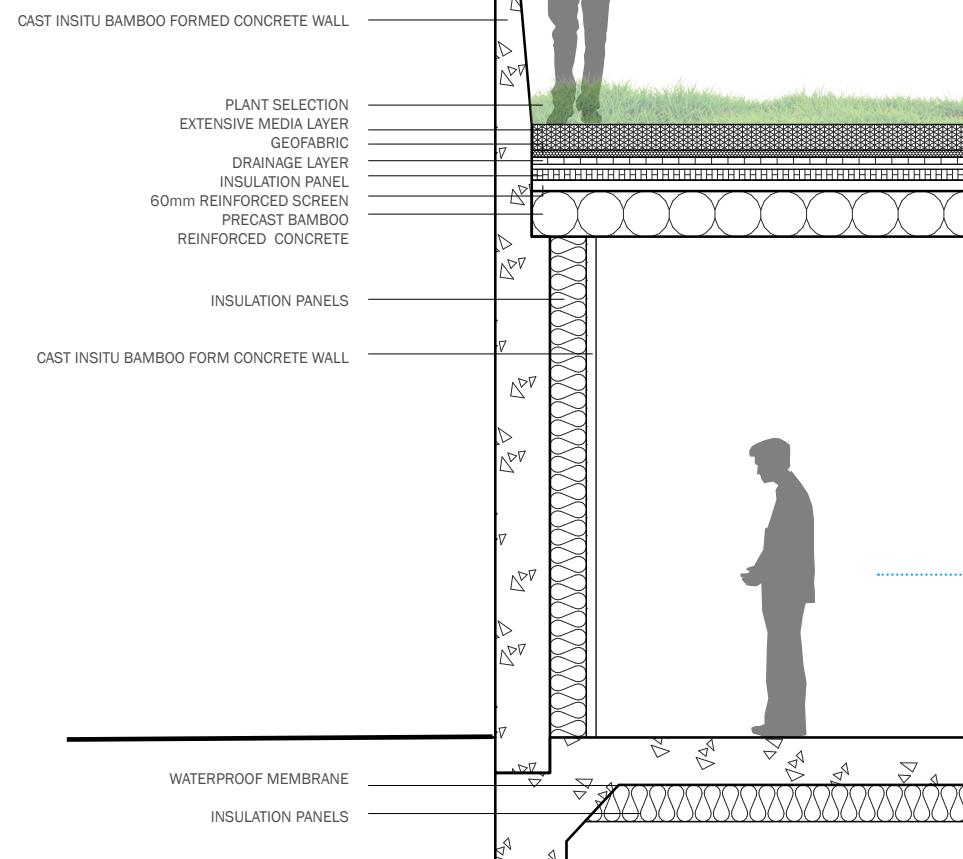
1_ Portland Oregon concrete mix is poured with bamboo reinforcement



2. Bamboo forms can be removed after 28 days of curing under ideal conditions.



3. Remaining bamboo forms can be recycled as floor slab reinforcing.



Top_

'Rendering of the exterior rooftop space.'

Bottom_

'Rendering of the interior under the stairwell/bench area.'



GAIA

Welcome to Gaia, where we bring to life the newest generation of inspired living.

Nestled between 80 square kilometres of distinct landforms, the rocky peaks of the Ourean Mountains and glimmering waters of Lake Thalassa, Gaia is born from its spectacular geographic setting. Not only does Gaia provide immediate access to unique and stunning vistas of the surrounding landscape, she is a breathtaking combination of bold urban culture and rugged montane terrain, to host over 40 000 people on a daily basis.

At the core of Gaia is an interconnected network of systems which work to promote life and wellbeing. Fueling human prosperity, you will be part of a project which helps to realize humanity's full potential as the only life-form remaining on Earth. Gaia turns away from the failed methods which extinguished all non-human life, focusing instead on a new lifestyle of reuse and recycling.

Gaia's systems are environmentally conscious, focused on minimizing waste of useful materials. Since time immemorial, we have allowed our biomass to be underutilized, and it's potential-energy untapped. By continuously reclaiming and reprocessing human bioenergy, Gaia harnesses the renewable resource of human biomass. With our advanced methods, you can be sure that harvesting biomass is the most efficient way to synthesize compounds no longer readily available in the post-zoic.

Taking full advantage of the absence of non-human organisms such as bacteria and fungi (which had in the past broken-down organic materials), large quantities of biomass energy can be stored without the risk of energy-theft, both in everyday objects and in buildings. Biomass is produced and harvested using intelligent control, and is organized centrally for a very controlled process.

Year_ 2019

Team_ Alexey V., Bill CM T., Marco A., Teodor M.

Type_ Utopia/ Conceptual





Top_

'Map of the dystopian city, Gaia.'

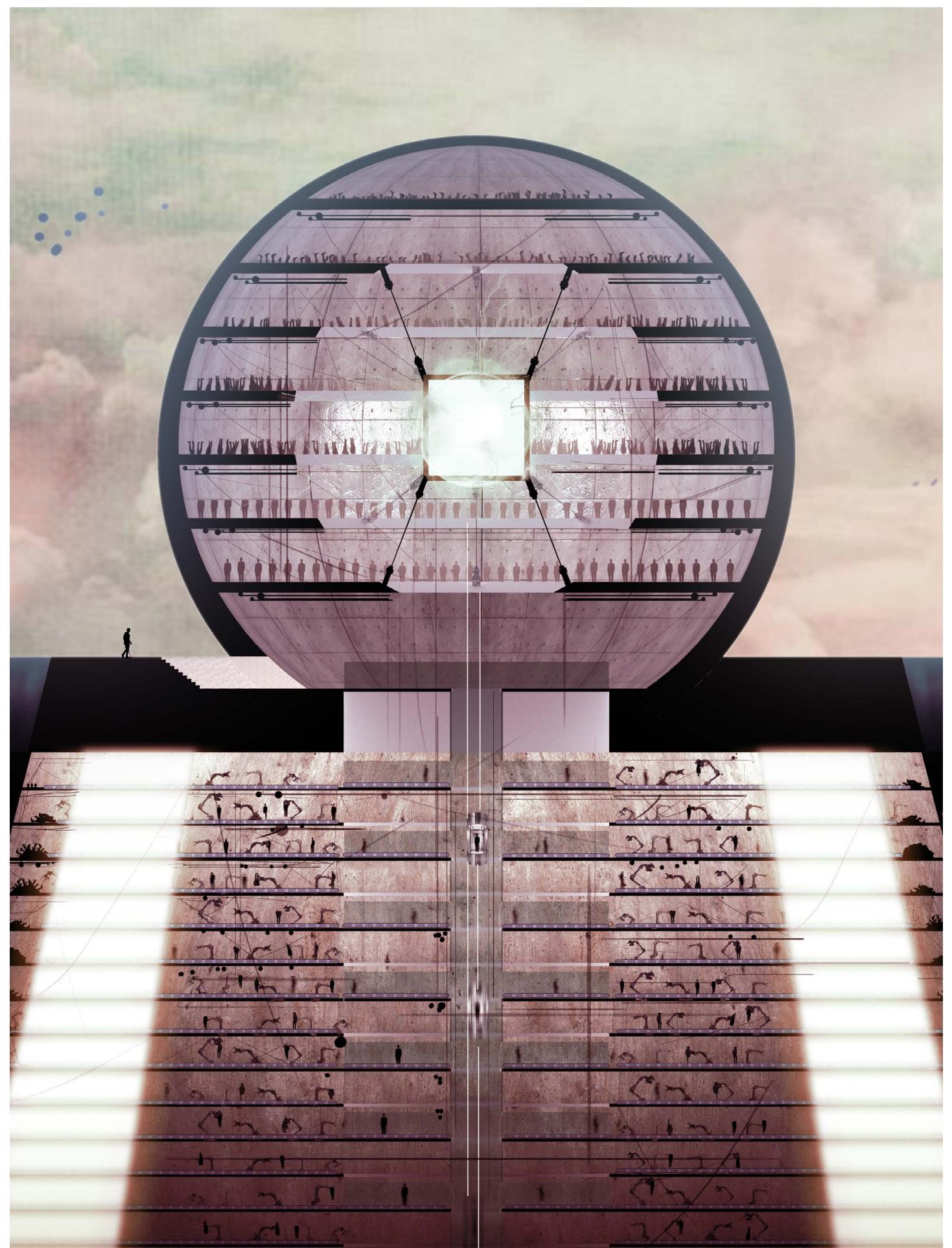
Middle_

'Rendering of residential towers built from flesh and ivory in a structural rationalist manner.'

Bottom_

'Rendering of the stadium, which embodies the cannibalistic culture of the society.'

Right_

'Section through Mother.'



Left_ *Rendering of Mother*

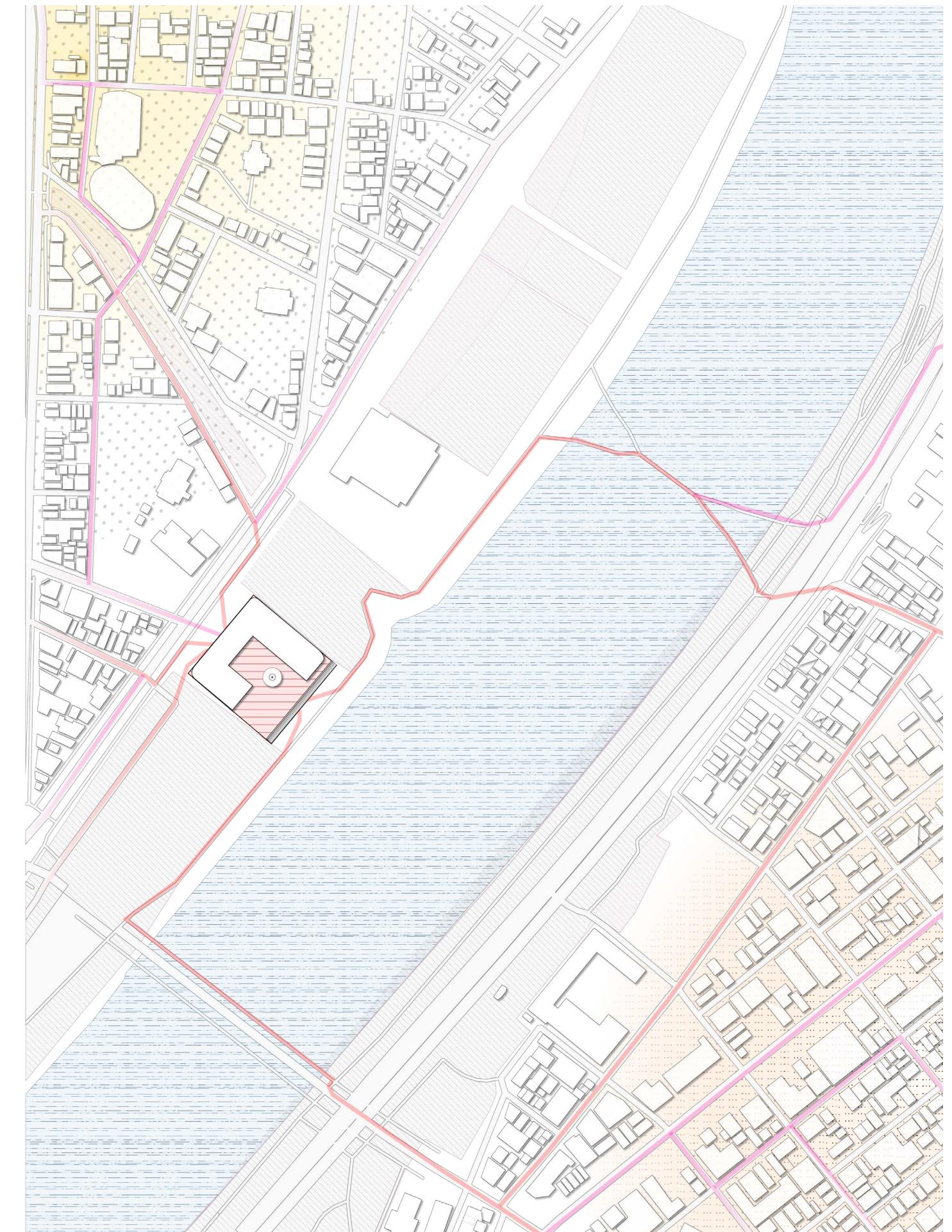
BOUND TO THE SOUND MOUND

Despite high-density cities, there is a severe lack of interaction between people in high-density areas. To make matters worse, modern cities have become even busier and complicated places that encage thousands of people with forests of tall buildings. Studies show that the high stress levels of residents is due to lack of quiet green spaces as well as the difficulty of navigating within these environments. These problems become a fatal struggle for those who are blind. Navigating a complex city filled with constant noise pollution is indeed a strenuous task for blind people. This proposal guides both the blind and the non-blind into a secluded agora within the city that encourages interactions and sparks conversations. Using gradients of noise levels leading away from the city and green space, the agora reshapes the environment and experience. Welcome to the Mound:

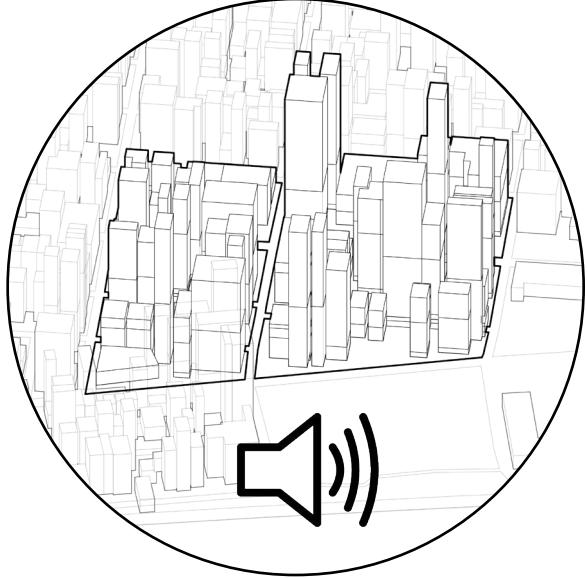
It is another day where you walk on the streets of an urban, high-density city. Cars roar, construction screech, children scream, phones yell and sirens shriek. Surrounding high-rise buildings create walls all around the city trapping you in a forest labyrinth. In this chaos, you concentrate and listen for a stream that will lead you away from this suffocating city.

Along a long smooth path you hear the humming of an underground river: the sewers. Amongst the chaotic urban noise pollution, birds start to chirp and trees gently rustle, shop owners sing and couples fondle. When you get tired the humming from the river, a manhole, calls you to hum along and rest your legs. You begin to walk along this path again with other merry people, and notice silky grass gently stroking the side of your leg, warning you about the road that is so close.

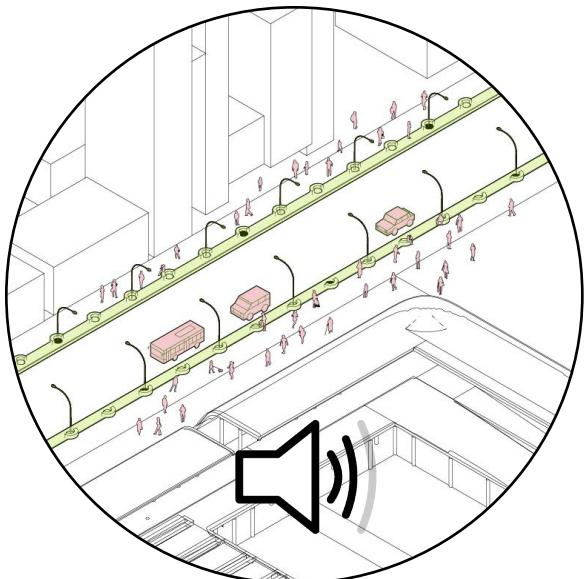
Year_ 2019
 Team_ Annie W.
 Type_ Institutional
 Site_ Asakusa, Japan
 Recognition_ Featured as 'Recognized Idea' for Architize Dots for the Blind Competition as one of top Nine Entries.



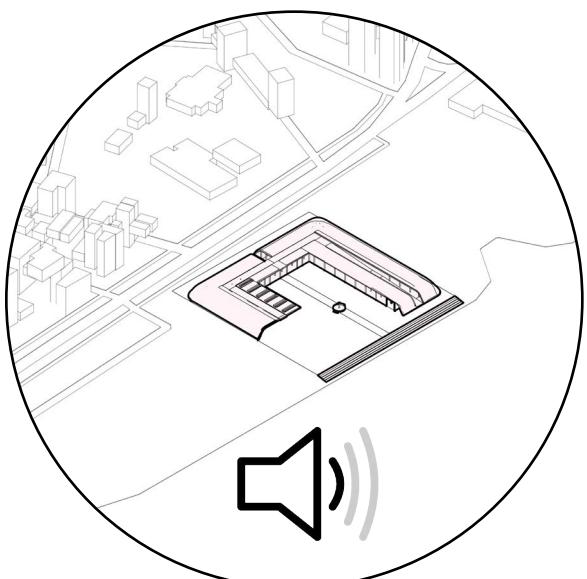
Diagrams_ 'The Loud City'



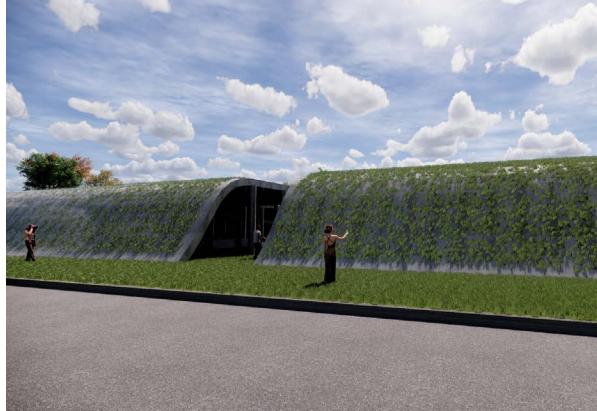
Diagram_ 'The Interactive Path'



Diagram_ 'The Quiet Mound'



Perspective_ 'The Mound'



Perspective_ 'The Market'



Perspective_ 'The Park'

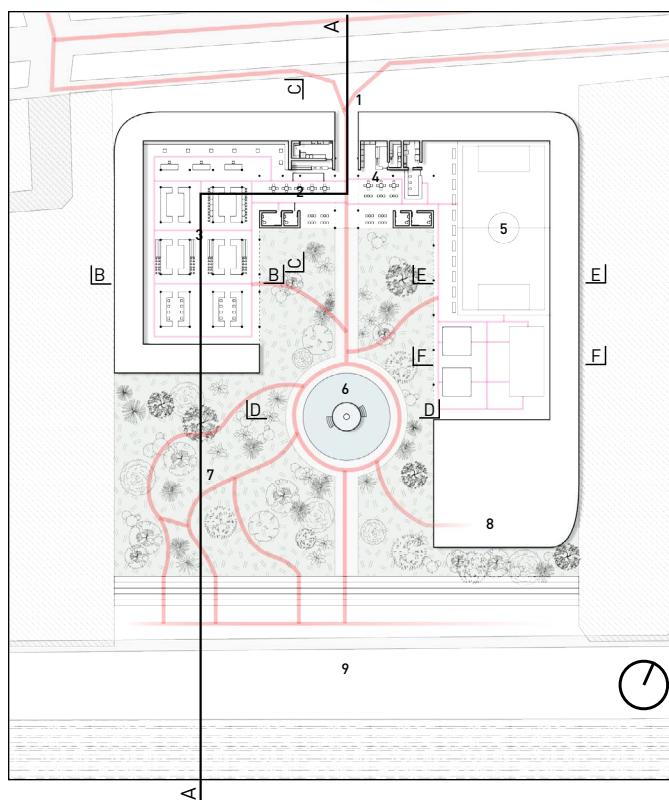


'Perspective_ The Landscape'



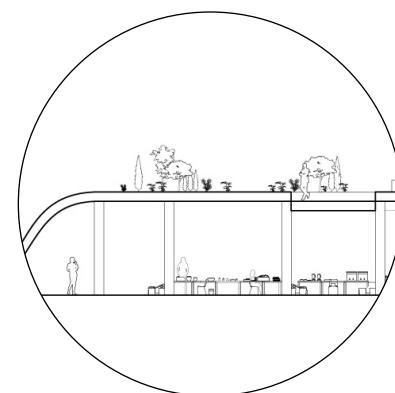
Diagrams_ 'Range of vision- light perception'



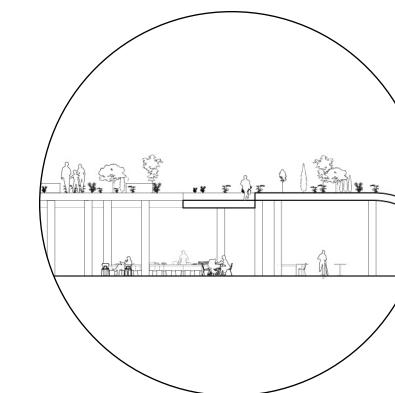


Plan_ 'Ground Floor'

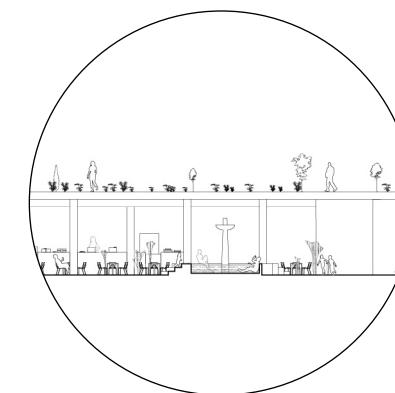
- 1_ 'Entrance'
- 2_ 'Cafe'
- 3_ 'Market'
- 4_ 'Bakery'
- 5_ 'Sports Centre'
- 6_ 'Fountain / Water Park'
- 7_ 'Garden'
- 8_ 'Waterfront Steps'



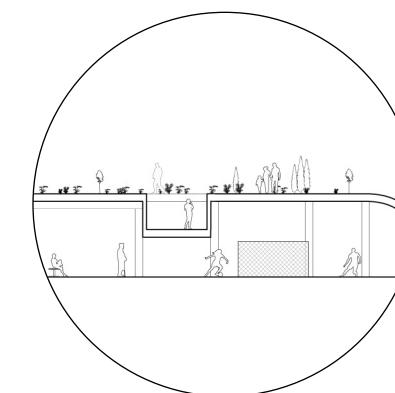
Section BB_ 'The Market'



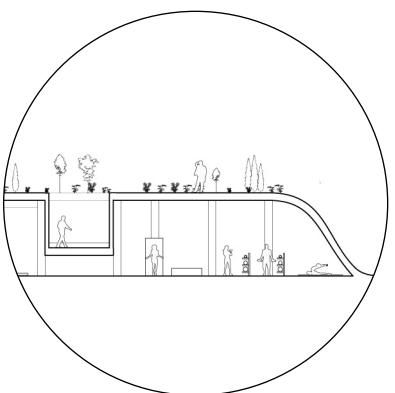
Section CC_ 'The Cafe'



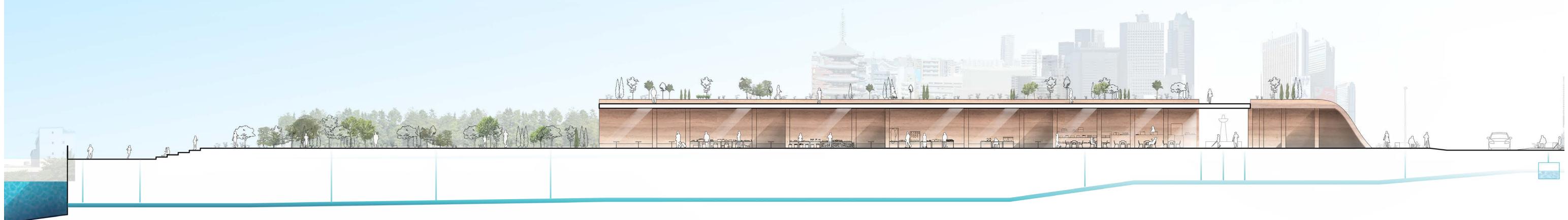
Section DD_ 'The Fountain'



Section EE_ 'The Sports Centre'



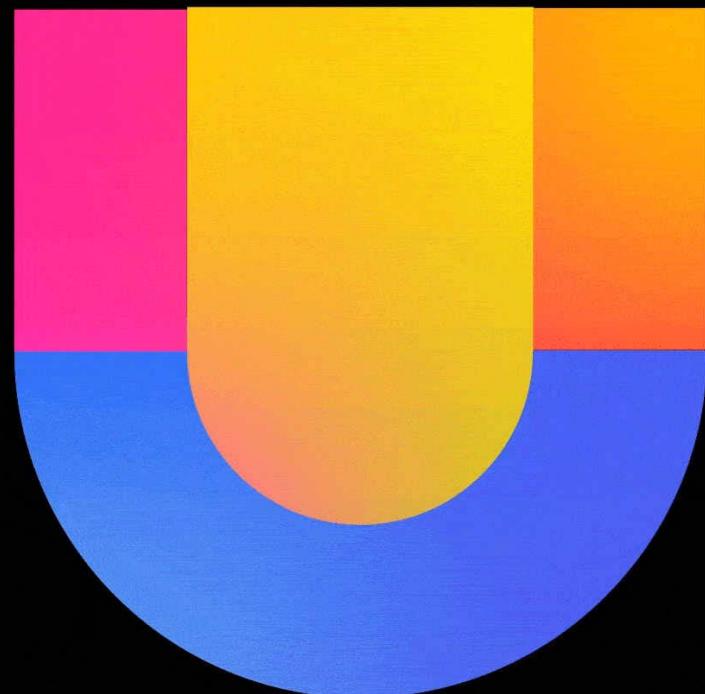
Section FF_ 'The Park'



Section AA_ 'Durational Section from waterfront to roadside'

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Wooster St Loft
A room is an idea's container.
An architect is a guiding light. Design
should never be too hard, since
design is an adventure, full of surprises.

Aug 2018, 2019

Oscar Bond Salon
Commercial

Aug 2018, 2019

image
Oct 17, 2019

image
Oct 17, 2019

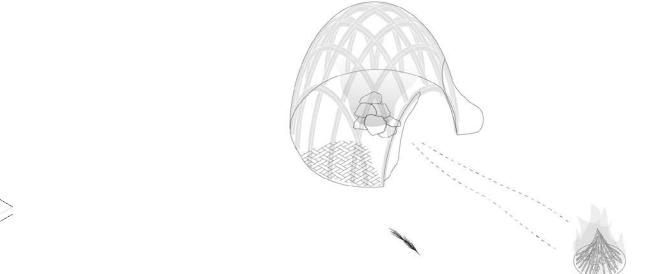
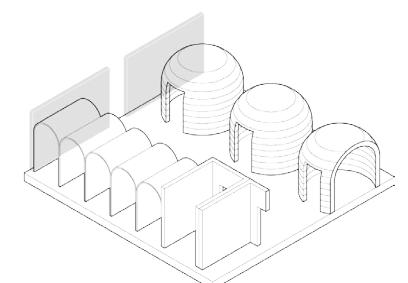
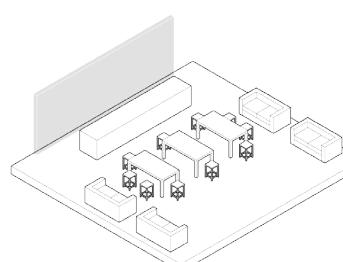
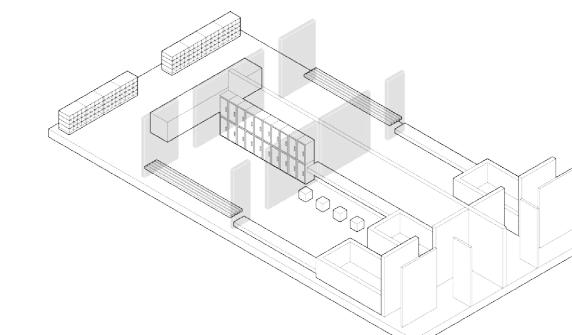
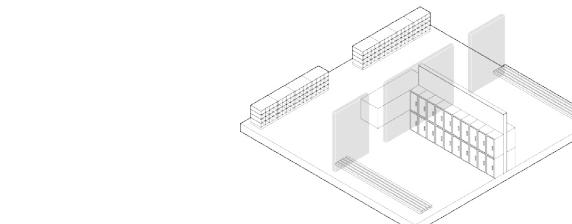
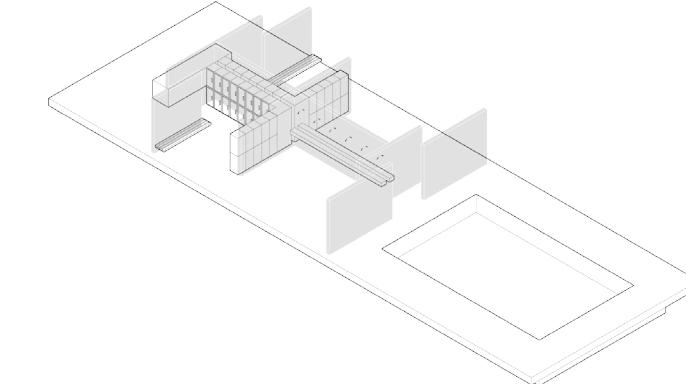
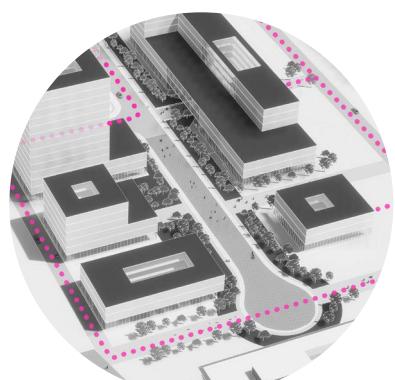
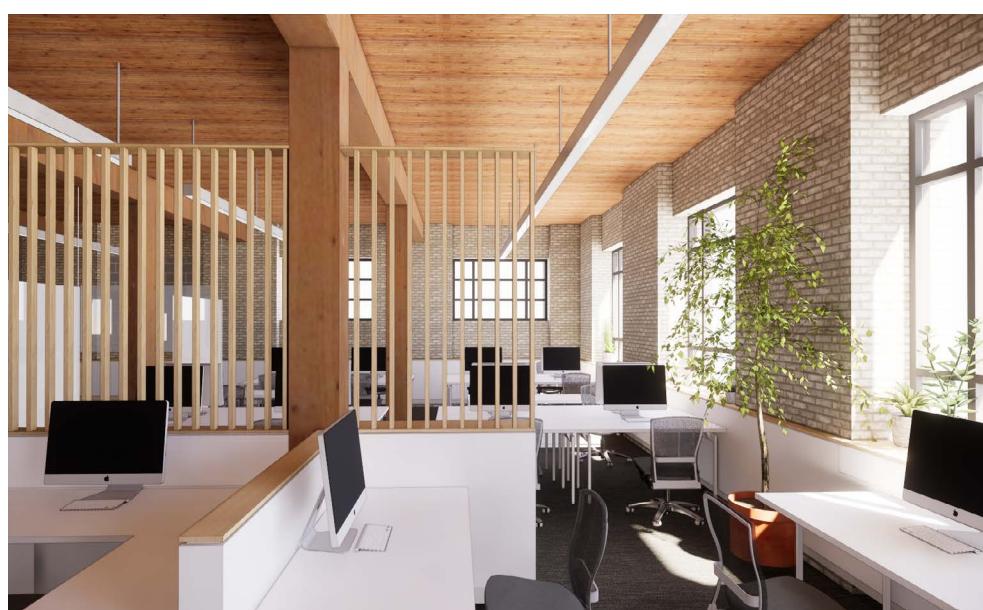
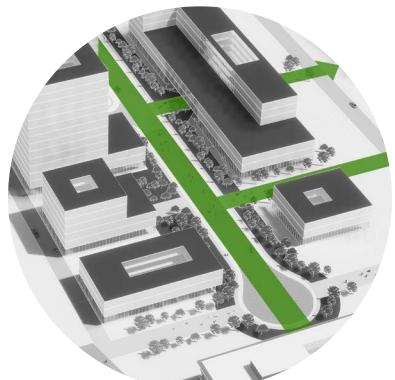
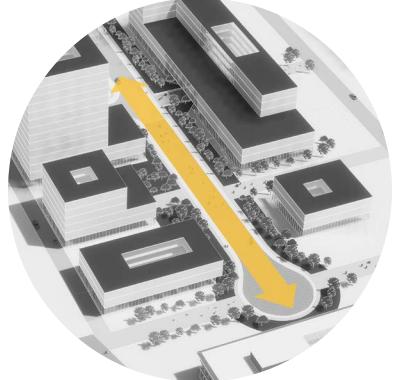
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Oct 17, 2019



Year_ 2020
Firm_ MESH Architectures
Type_ Website

Year_ 2020
Firm_ MESH Architectures
Type_ Competition
Site_ San Jose



Year_ 2019-2020
Firm_ Moriyama + Teshima Architects
Type_ Institutional

Year_ 2019-2020
Firm_ Christie Pearson Architects
Type_ Illustrations

thank you!

Let's Talk Soon:

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