

A Collection of Works

Professional + Academic

Andrew Mateja

Architecture is all around. It can help both society and the people in it to **thrive**. Good design shall please its inhabitants. Good design shall borrow from its **contexts** and maximize its **presence**.

*Architecture is the potential of our **imagination** and the **reality** of the living world.*

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Gresham Smith Projects

New Entry Experience for Ann and Robert H. Lurie Childrens Hospital

Location: Chicago IL
Scope of Work: Two Floors including millwork, security, AV and Interior Design

Role: Redesign of 2nd Floor Entry Experience, Check-in, and Security Stations - DD / CD Phase Coordination and Renders.
Assisted Senior Interior Designer in creating new check-in desk to fit with existing hospital aquatic themes.



New Check-In Concierge Desk



Approach to Check-In Level from First Floor Escalators

Gresham Smith Projects

Northwestern Cancer Center Expansion

Location: Warrenville, IL

Scope of Work: Two Story Expansion and new entrance to Existing Cancer center building.

Role: Created Sketchup model based on photographs and existing plans, developed Enscape renders and 3D animations to present multiple options to client during the Schematic design phase.



New Entry Render (Sketchup and Enscape)



Daytime Elevation Render with New Expansion (Left)



Nighttime Elevation Render with New Expansion (Left)

Gresham Smith Projects

McLaren Oakland Hospital Expansion

Location: Pontiac, MI
Scope of Work: Addition to West Tower of Hospital

Role: Developed Sketchup base site and building model. Created Lumion renders and diagrams during Schematic Design with coordination of Outsourced Renderings.



Internal Render (Sketchup and Lumion)



Coordinated Outsource Render (Photoshop Compositing)

Gresham Smith Projects

New Proton Vault Room for McLaren Flint Hospital

Location: Flint, MI
Scope: Renovations to existing Hospital spaces

Role: Developed Sketchup model to create 3D Animations for new Proton Center addition to house the first-ever compact proton therapy machine from Leo Cancer Care. Created VR headset renders to allow client and marketing event attendees to preview new machine and space before construction.



HOK Projects

Office Fit-out for WPP (a marketing firm), Chicago IL
Size: 263,000SF
13 Floors with Modular Layouts across all floors

Role: Produced collage Renderings using Revit and Photoshop during the end portion of Design Development.



Clinical Inpatient Tower for the University of Michigan Medical Center
Size: 690,000SF
264 Single Occupant Bed Rooms and 23 Surgical Suites

Role: Responsible for 7 Patient Bed floors and coordination when project reached CD Phase. Previously assisted the space planner with room arrangements during SD Phase.



agency EA Event Designs

Ameriprise Financial
Welcome Event (2017)

Role: Created entire stage design for event, first created in Rhino and Vray, then Photoshop.



agency EA Event Designs

Ann and Robert H Lurie Children's Hospital
Childrens Information Wall Fundraiser Event (2018)

Role: Created design for stand-alone fundraiser towers with integrated audio/video. Developed client renders through Rhino3D.





WAVELENGTHS

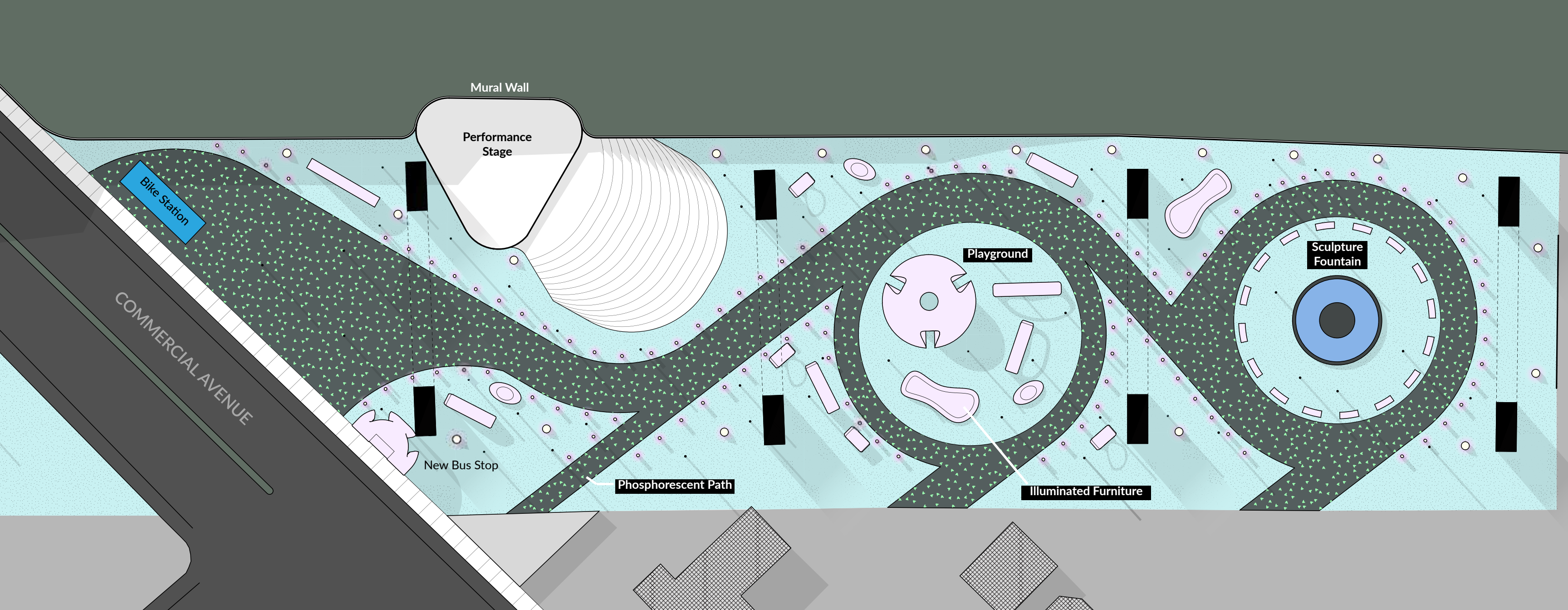
Entry for 2017 UIC South Chicago Underline Competition

Winner: Honorable Mention

Team: Andrew Mateja, Andrea Hunt, Nick Musial, Emilo Ferral

Wavelengths seeks to reinvigorate the south gateway to South Chicago with a multipurpose park and sculpture playground. The natural thresholds – marked by the existing skyway support system – lead into four designated areas for reception, performance, play, and culture. Upon entrance into the park, the visitor is greeted by a mural painted by local artists, showcasing the diverse heritage of South Chicago. Transportation amenities, such as a Divvy bike station, bike parking spaces, and a new bus stop are also located here. From entrance to performance, this zone hosts an amphitheater complete with a stage for the performance arts and sunken seating for an audience. Afterwards, a section for play presents soft colorful forms which can be crawled under, over, and into. Finally, a cultural zone urges its viewer to acknowledge South Chicago's vast history through its featured educational fountains or sculptures. A continuous undulating roof acts as a unifier of these spaces under the Skyway and as an acoustical buffer to shield the park from the vehicular noise above.

A primary feature of *Wavelengths* is its functionality during both daylight and evening hours. Scattered and permanent furniture forms made of translucent fiberglass light at dusk from integrated multicolor LEDs. Cast phosphorescent resin are embedded in the main pathway and can stay illuminated hours after sunlight has passed. These two elements, paired with path-lined light posts, offer playful and vibrant lighting in the evening to keep the park activated past sun-fall.



Mural Wall

Performance Stage

Bike Station

COMMERCIAL AVENUE

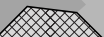
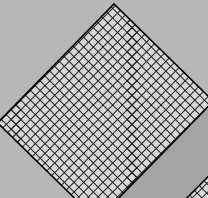
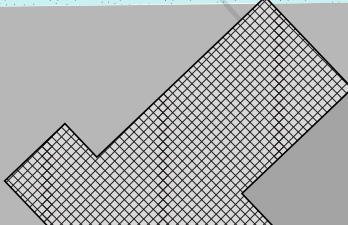
New Bus Stop

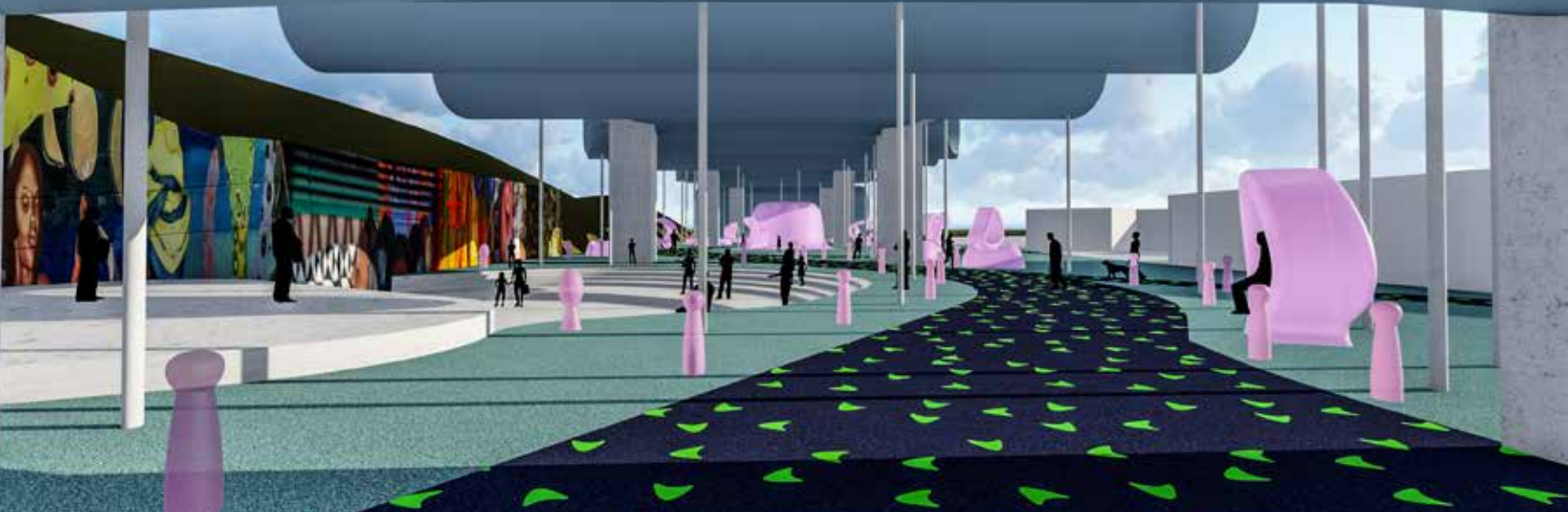
Phosphorescent Path

Playground

Sculpture Fountain

Illuminated Furniture





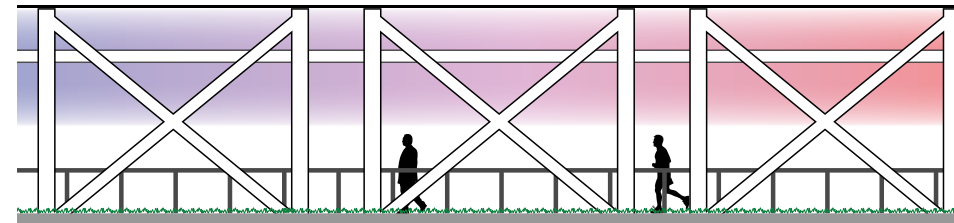
(A) Railroad Underpass Improvements



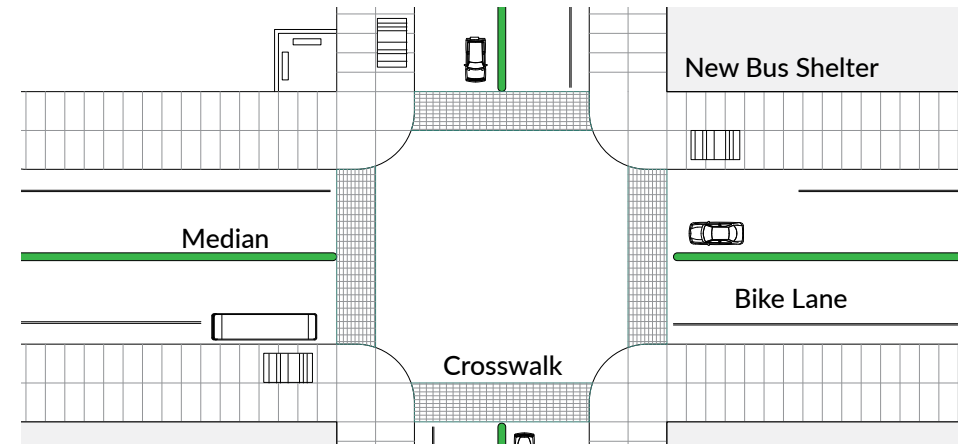
Current



Proposed



(B) Road Improvements



The **Public Amenities Plan** seeks to connect Commercial Ave. with the churches, schools, and parks that lay on the periphery of this area of South Chicago as well as link the **Wavelengths** park along Commercial Ave. Through means of a road improvement language along Commercial Ave., these improvements will be extended to these places with the intent of encouraging church attendees, students, and outside visitors to venture to the Commercial Avenue corridor. New bus stop shelters will replace ones that currently service Commercial Ave. The two Metra stops will follow the same streetscape language and will connect to the main corridor.

(A) The viaduct that separates **Wavelengths** with the rest of South Chicago will undergo improvements to allow safer passage. The trusses and concrete walls are to be painted a brilliant white. The walls will be lined with multicolor LEDs that will provide nighttime visibility, while handrails will provide safety to users.

This proposal will position South Chicago as a preeminent neighborhood bringing much-needed renewed interest to cultural heritage, community involvement, and a colorful future.



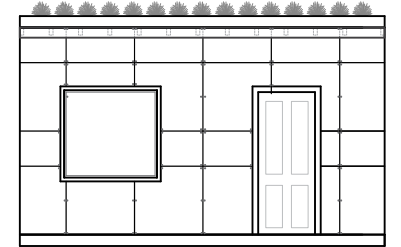
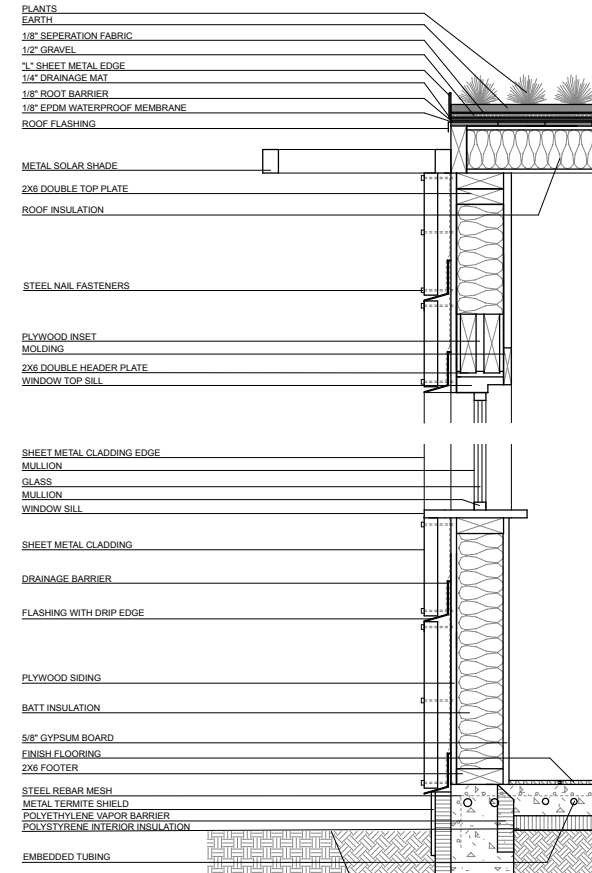
Existing

TIL COFFEE SHOP ENTRANCE PROPOSAL

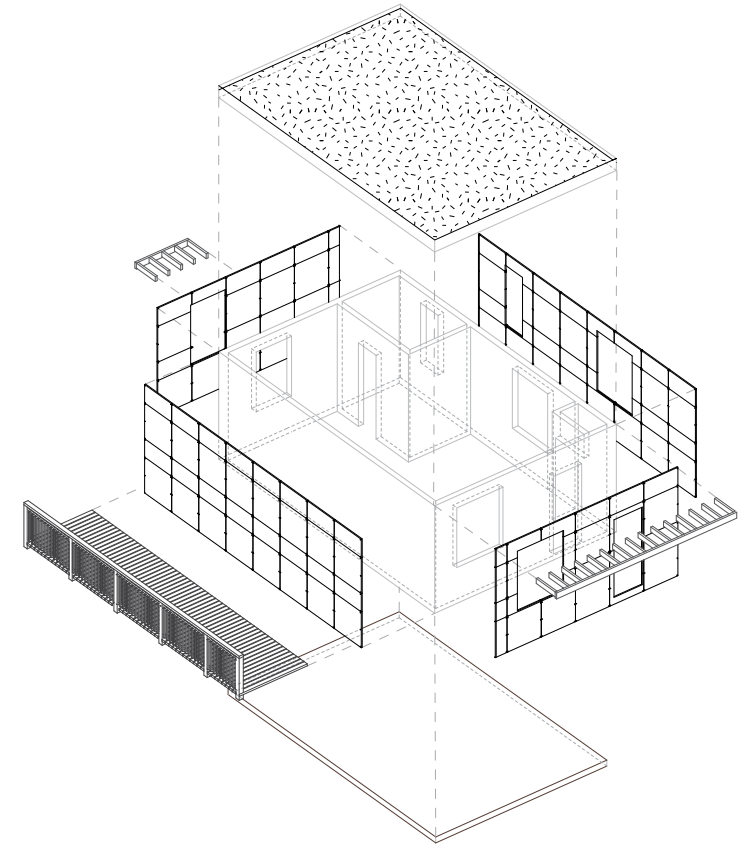
Collaboration with Paul Miller (PM Studios)

April 2014

This short weekend project was a design for a new outdoor dining and streetfront appearance for client TIL Coffee Shop. The client desired sustainable and earthy materials to harmonize with their mission of fair-trade, fresh ingredients for their shop. Paul and I decided on a wooded barrier system with a semi-hollow core to run electrical services for floor lighting and table lighting and spaces for potted growth.



East Elevation



SUSTAINABLE HOUSE STUDY

Columbus, OH

Collaboration with Emma Horvath

February 2012

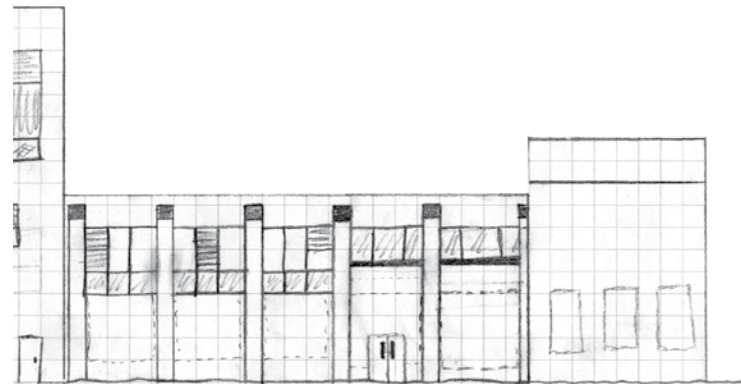
JEFFERSON HIGH SCHOOL BUILDING STUDY

Original Architect: E.W. Austin, Dresden OH, 1922

High School Study Project 2006-2008, 2022-2023

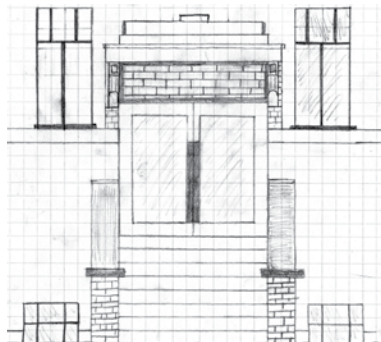
In 1920, the industry town of Dresden, Ohio needed a new school to hold its growing population. E.W. Austin, an architect from Columbus designed the school on the site of an old sports field. The building was completed in 1922 and received a new addition, also by Austin, in 1939. The high school was ultimately razed in 2008.

The study of this building has been a personal interest since 2003. It was a catalyst which spurred my growing interest into historical studies as well as the architecture profession. Through this study, I expanded my knowledge of 3D modeling programs to reconstruct room layouts, and converted many of the paper drawings to AutoCAD line drawings. In 2022 I rebuilt the model in Sketchup using the original floor plans and created new renders via Enscape.



Elevation of East Wing - Rear

West Entrance 1922



Sketch of High School as it looked in 1940



Renderings



2007 - 3DMax



2022 - Sketchup + Enscape



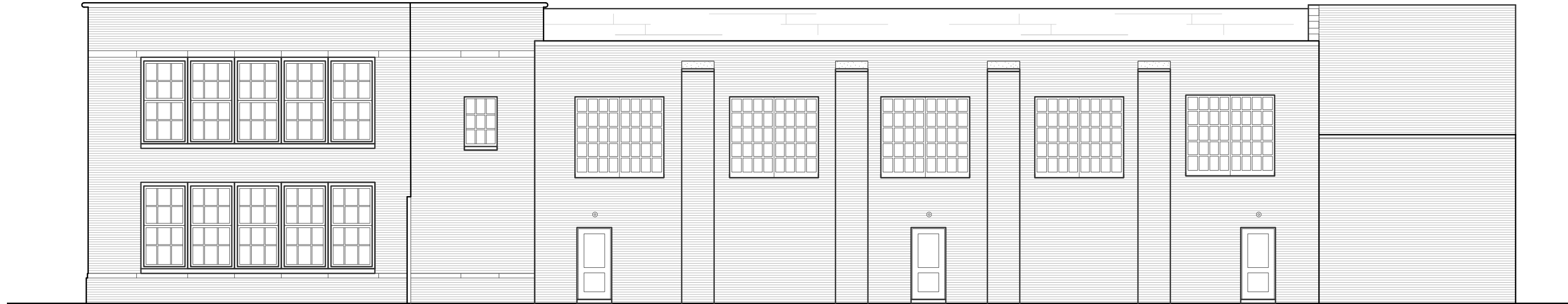
2007 - 3DMax



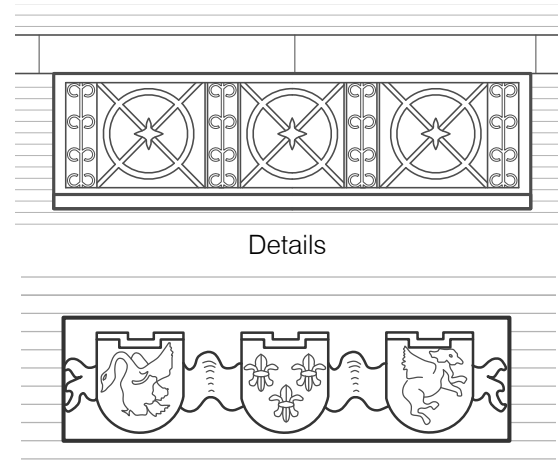
2022 - Sketchup + Enscape



2022 - Sketchup + Enscape



West Wing - West Elevation



Details



West Wing
North Elevation

Rethinking residential forms...

...through a well-pointed
Manifesto

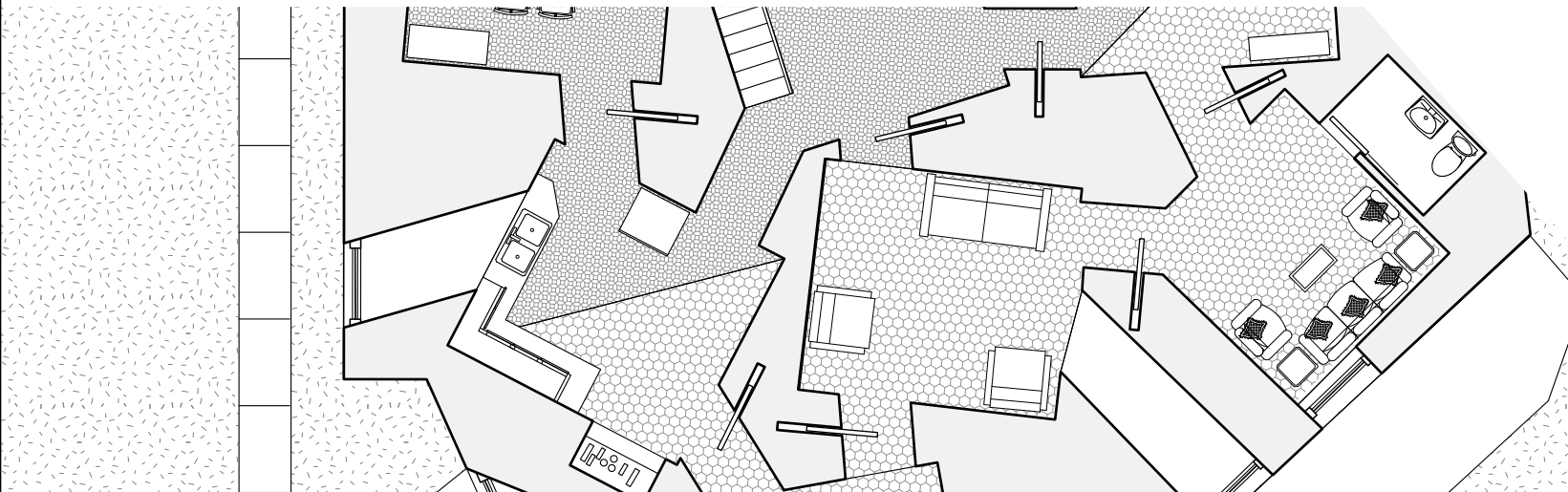
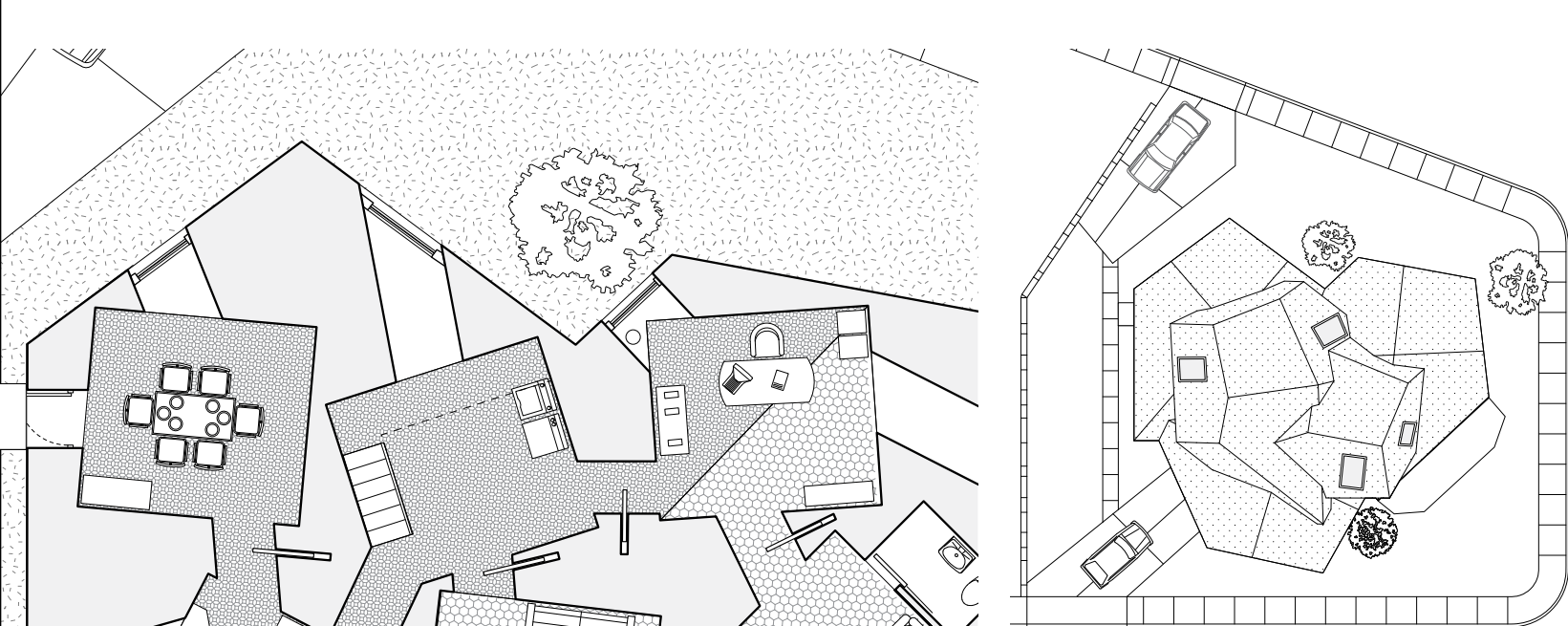
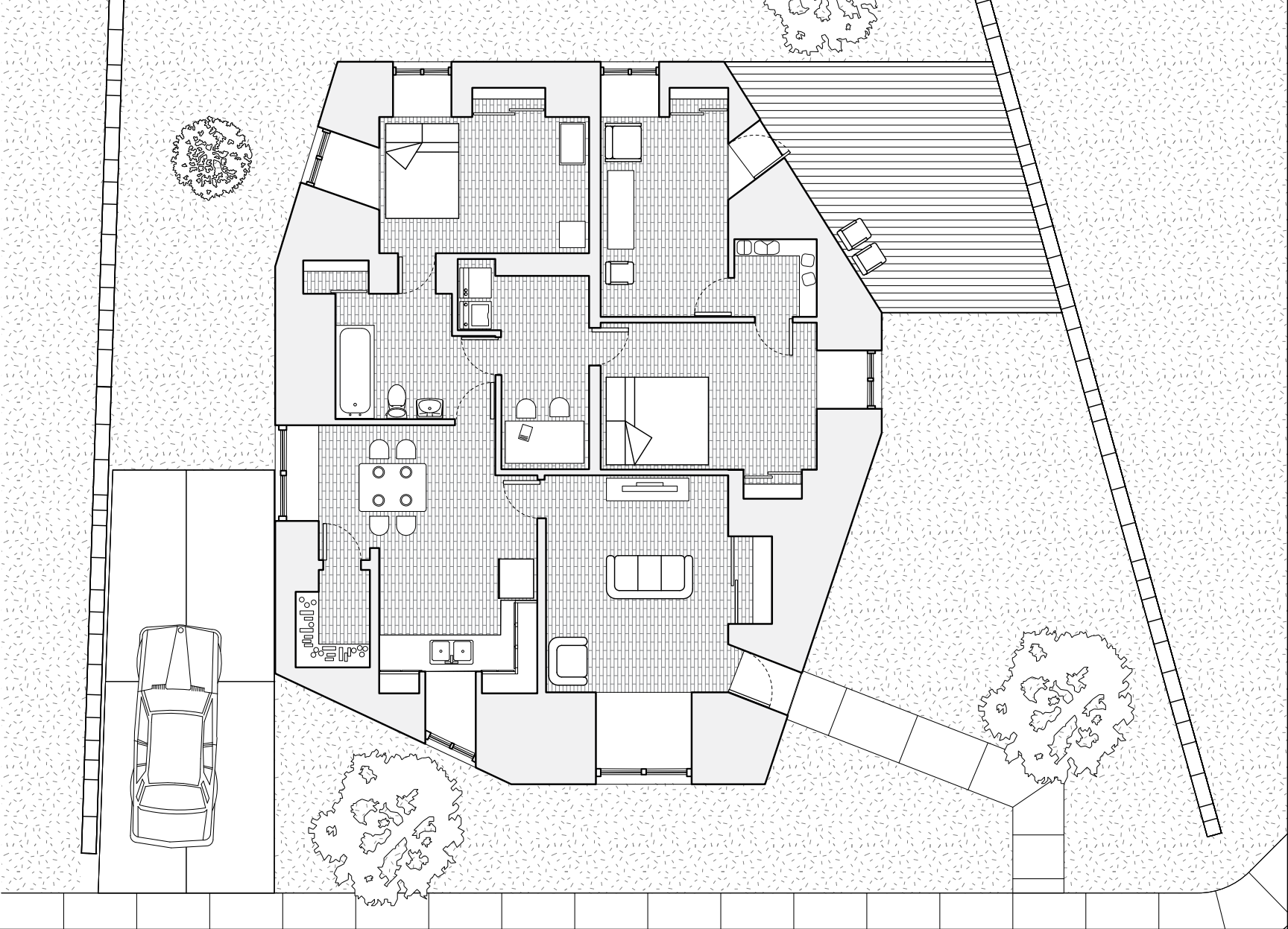


RETHINKING **HIERARCHY**

Instructor: Paul Andersen

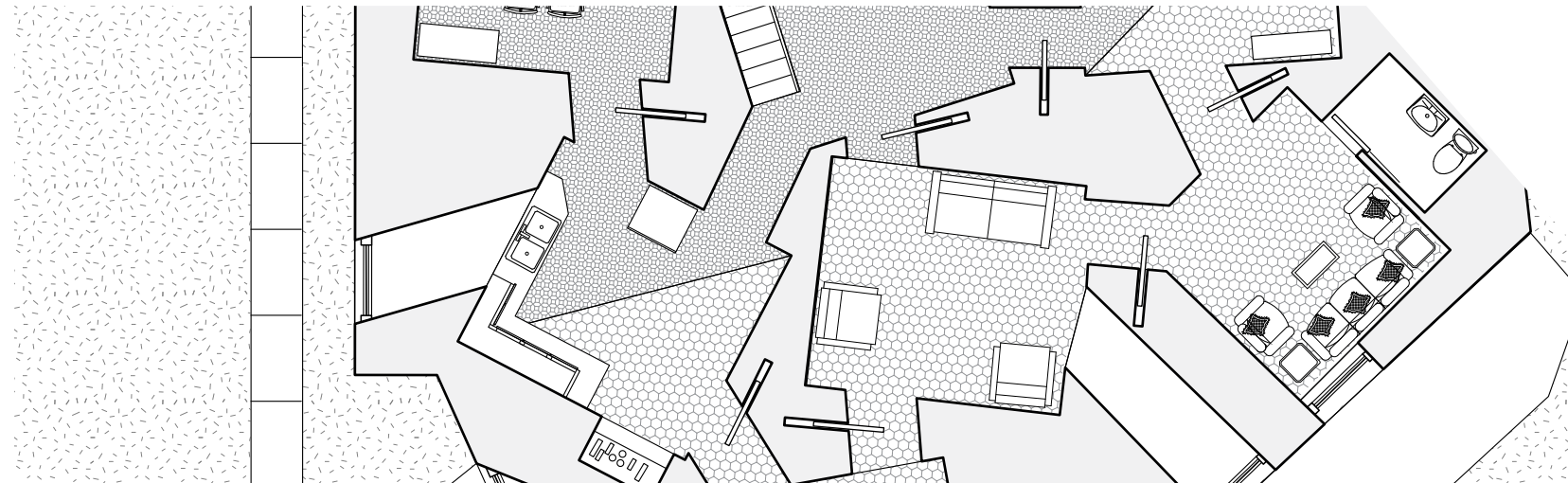
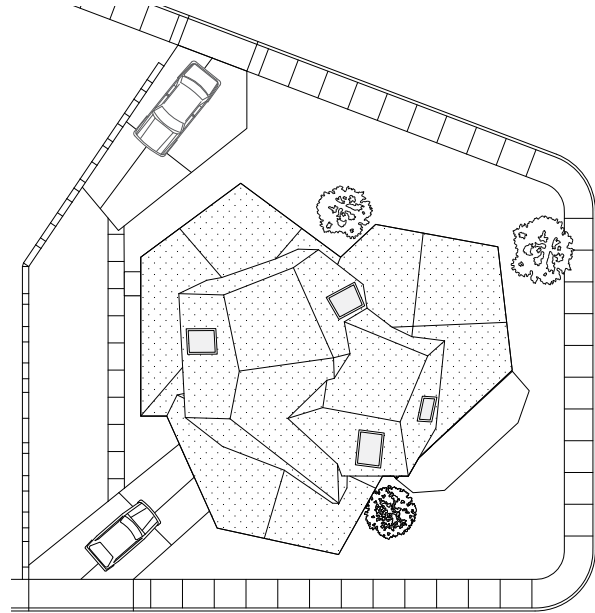
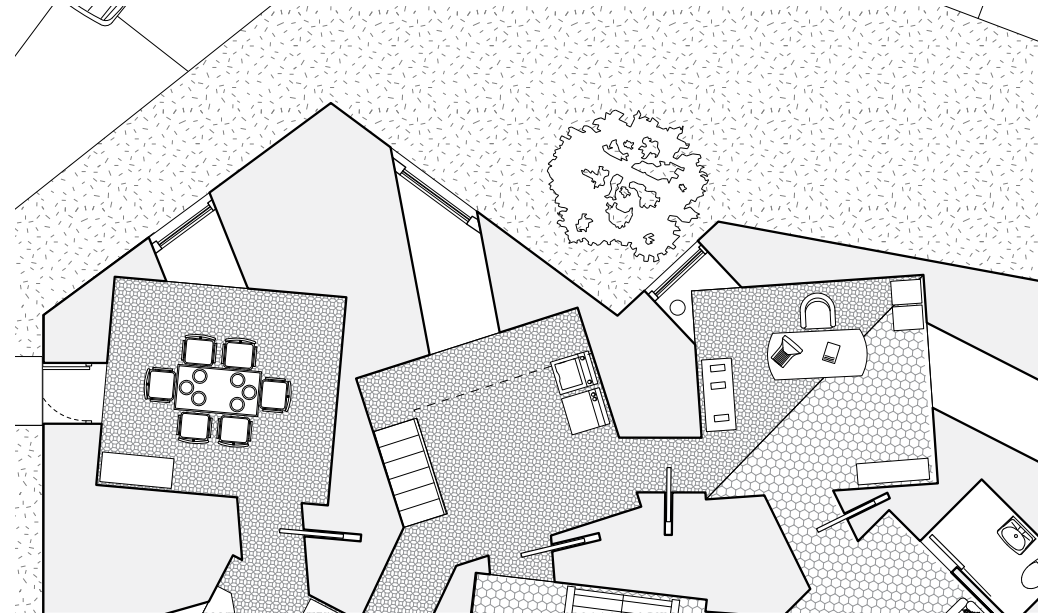
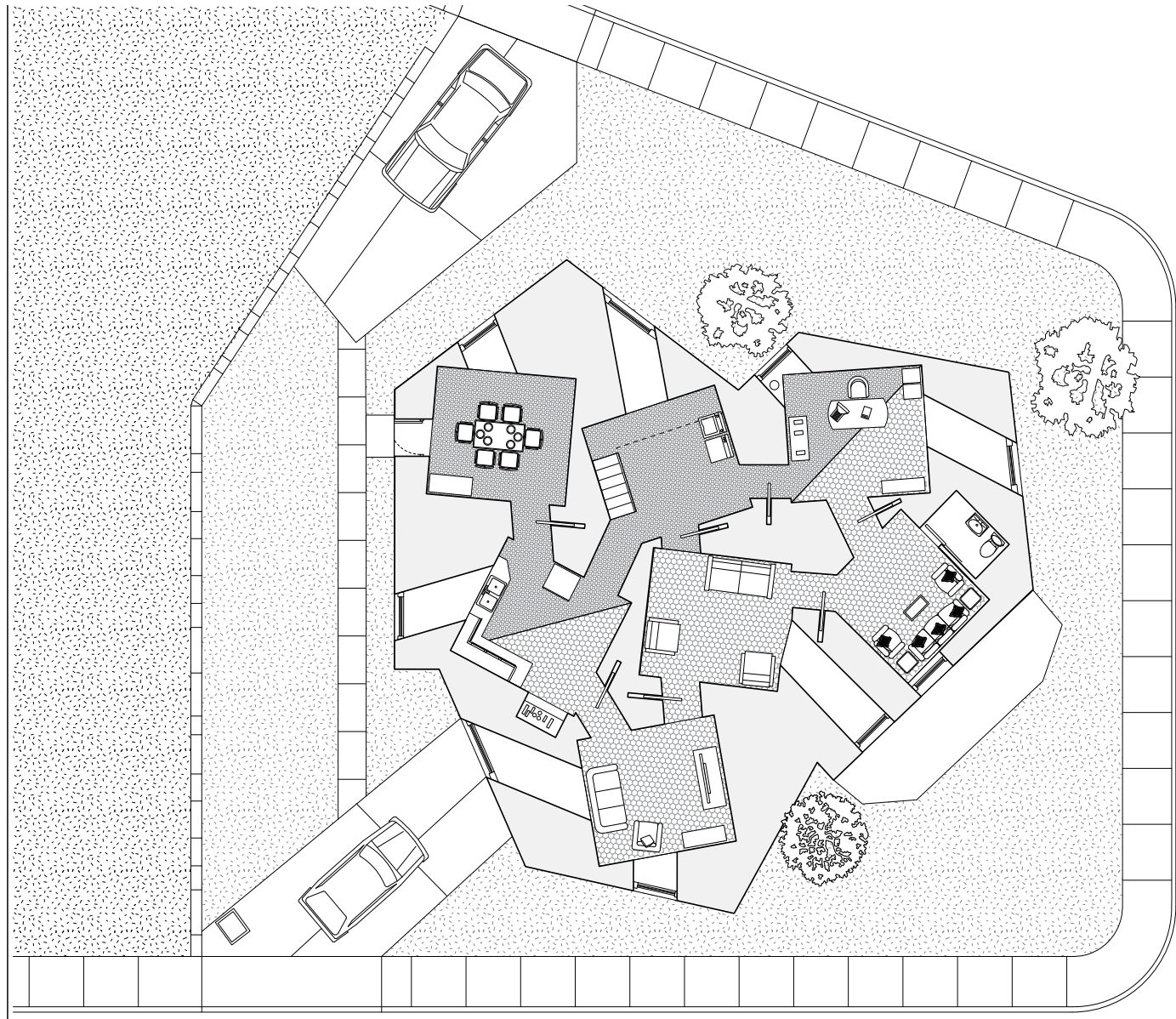
Spring Semester 2017 Studio

A manifesto of points were created following the study and cataloging of dozens of idiosyncratic housing neighborhoods around the country. The following three houses are a creation from that manifesto. A single family house, one small, one large, and a duplex house make up the suggestion that rethinking hierarchy is the next step. These houses are a reduction of standard suburban houses. They are identical when individual yet lack of frontality when combined. Window openings are independent of exterior form and ignore any hierarchy. These forms present a new sensibility for suburban house design.



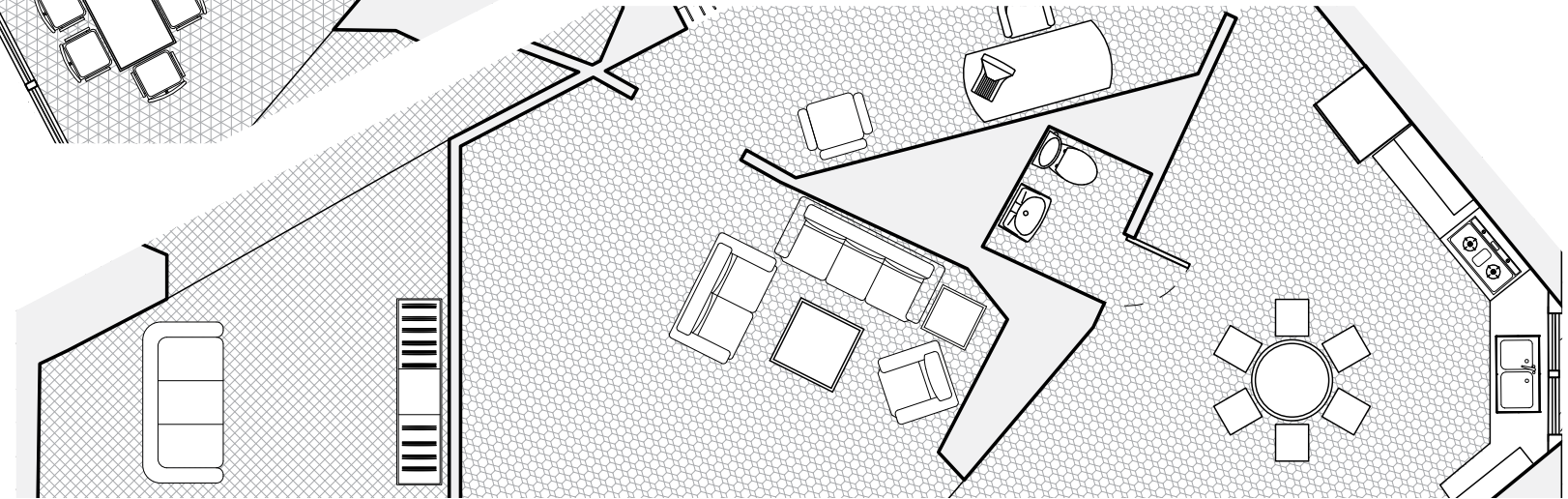
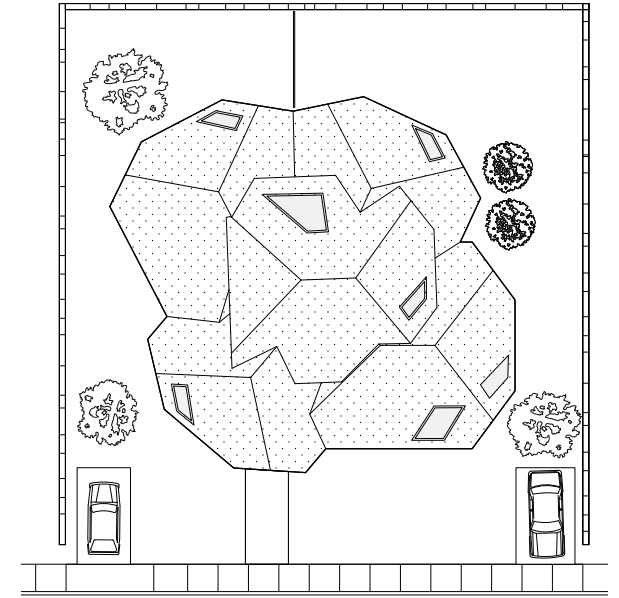
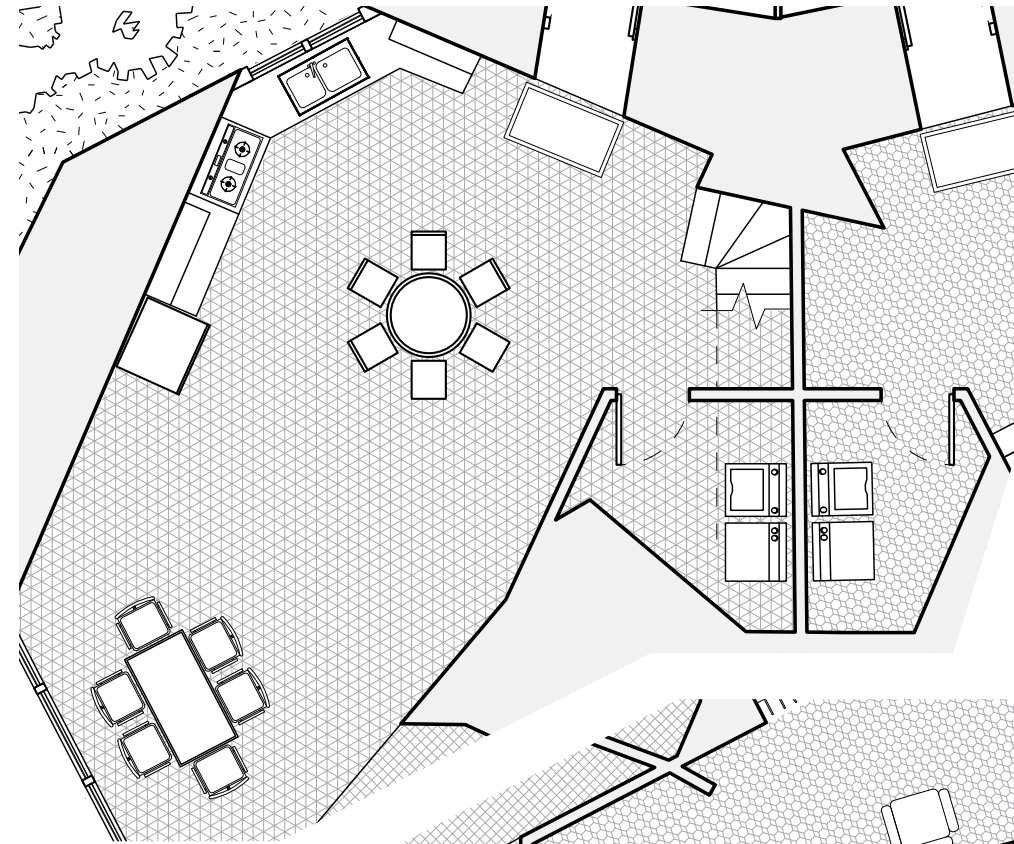
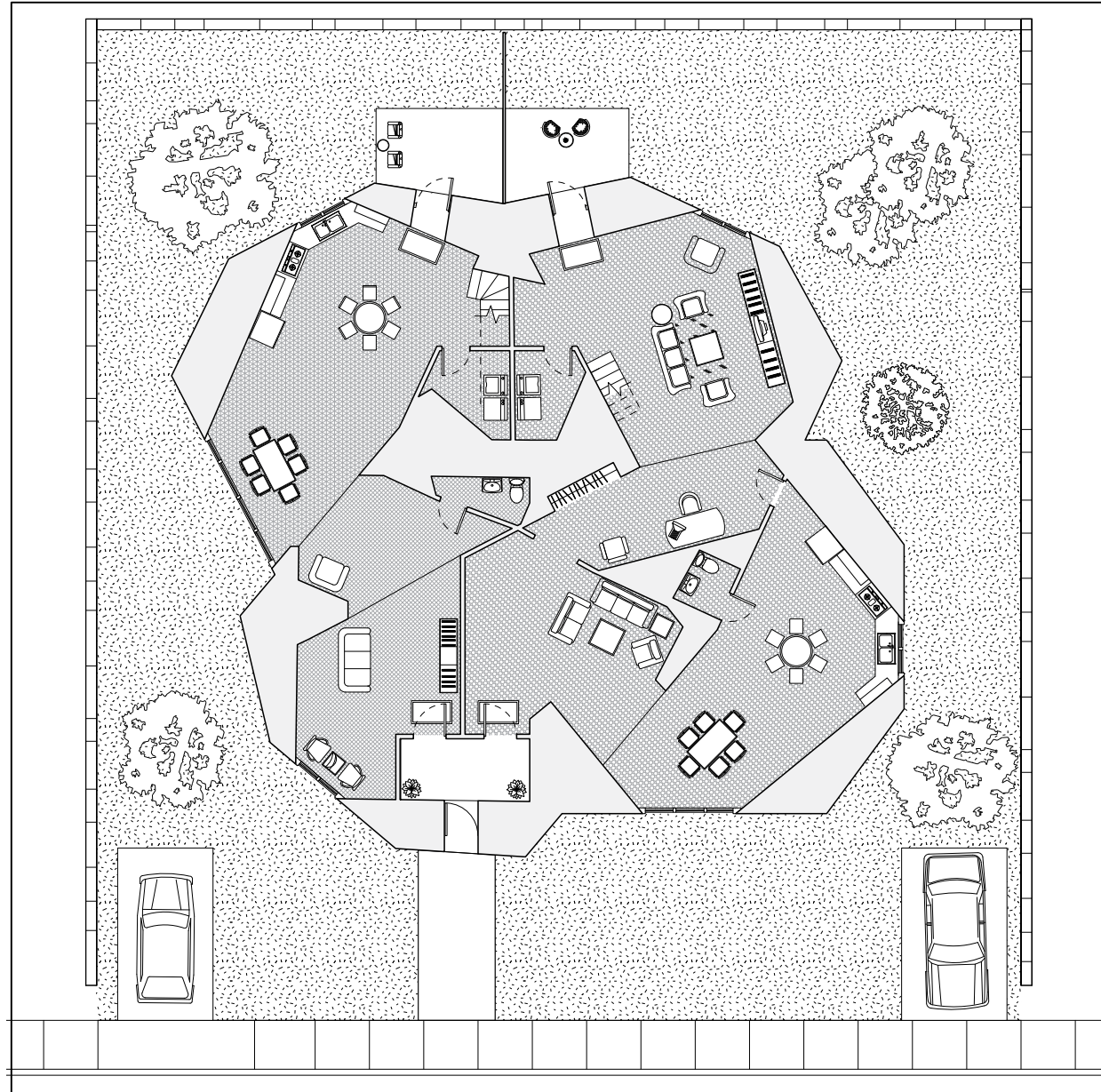


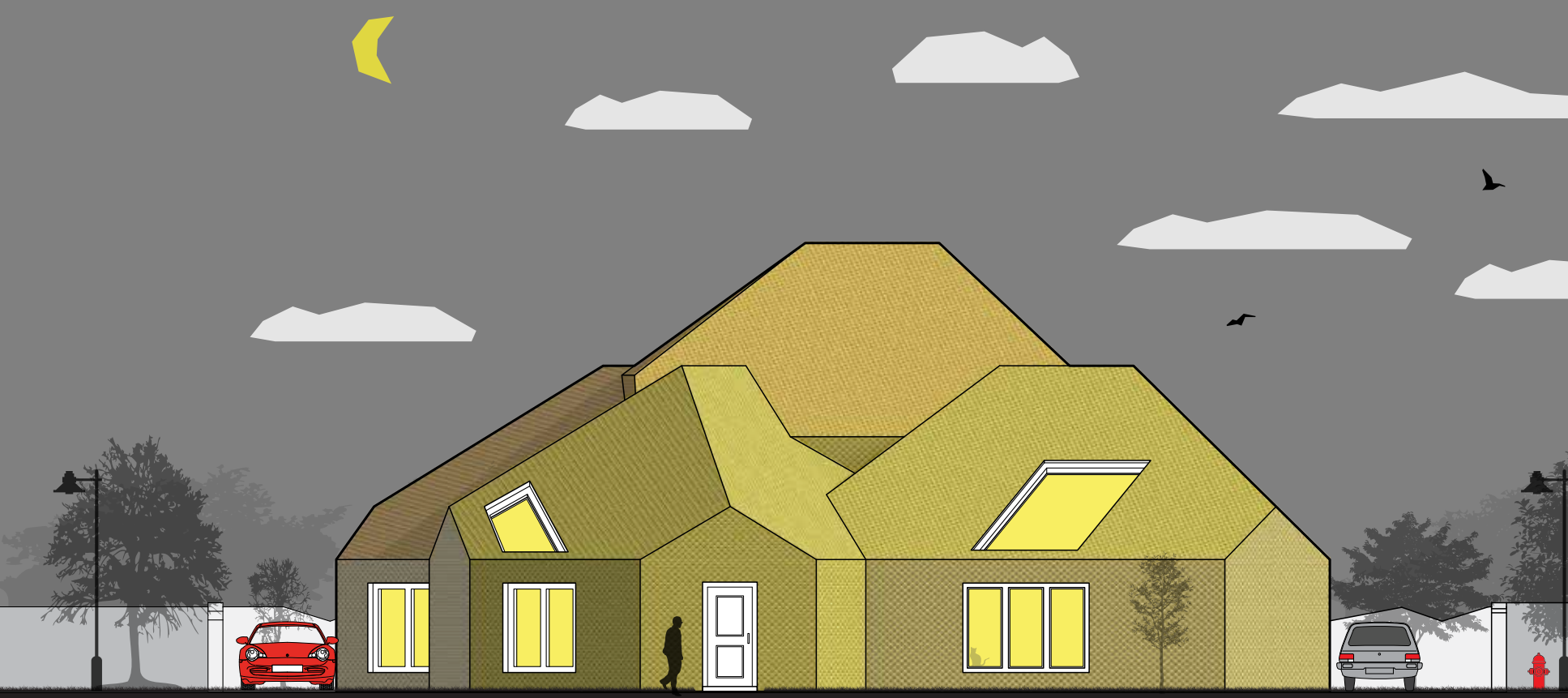














What if...

There was a third entity between
City and Park?



INBETWEEN

Instructors: Sarah Dunn, Sean Lally

Spring Semester 2016 Studio

A city is an artificial construct. It is dynamic: a series of active interiors with conditioned space. It is a destination. A park is passive, unconditioned entity, an environment for activity rather than the activity itself. A new third entity would mediate between these two polemics. As one moves from city to lake, you enter a networked environment, both formally and experientially. Program is arranged around a central hub of activity with additional program itemized and dispersed radially. Through surface and climate zones, this entity sets itself apart from either polemic, creating zones of play, well-being, or social interactions. Boardwalks through wetlands allow a close experience with nature and connect to the rest of the area.

At one end there is the city, at the other, a park. In between, you are in the third entity.

WHAT is a city?



A city is an artificial construct. It is a dynamic series of active interiors with conditioned space and regimented grid.

WHAT is a park?



A park is a passive entity. Lightly manicured, and often an environment for an activity rather than **the** activity.

WHAT is the third entity?

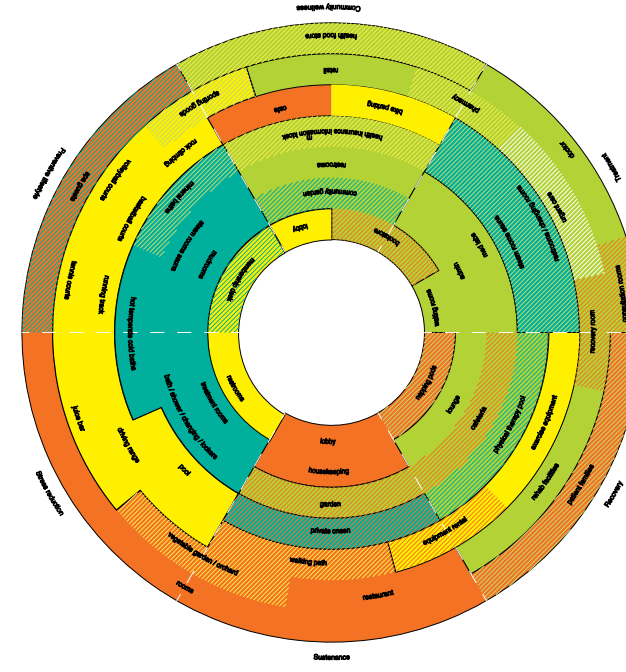
This new entity brings a mediation of city and park. It is a focal point of interior activities, with conditioned outdoor spaces.

It will create new dynamic hotspots between city and park

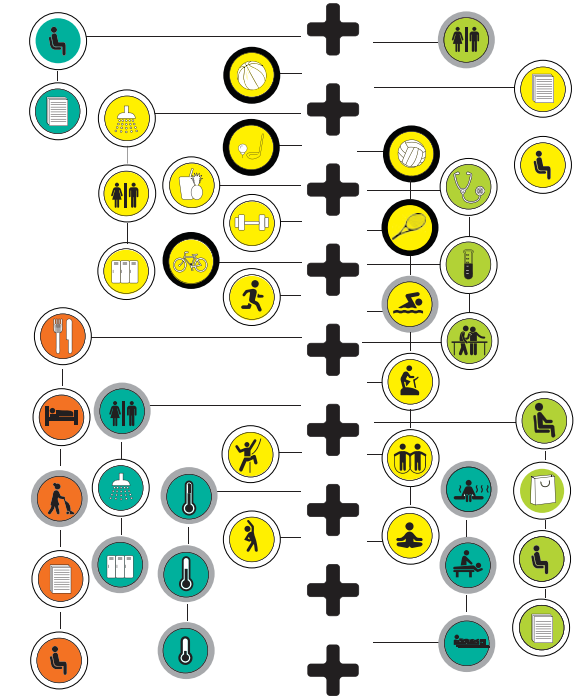
It offers conditioned benefits of city + benefits of park

Its climate zones will allow continuous site activity

A rigorous dispersal allows visitors to guide their way across the site

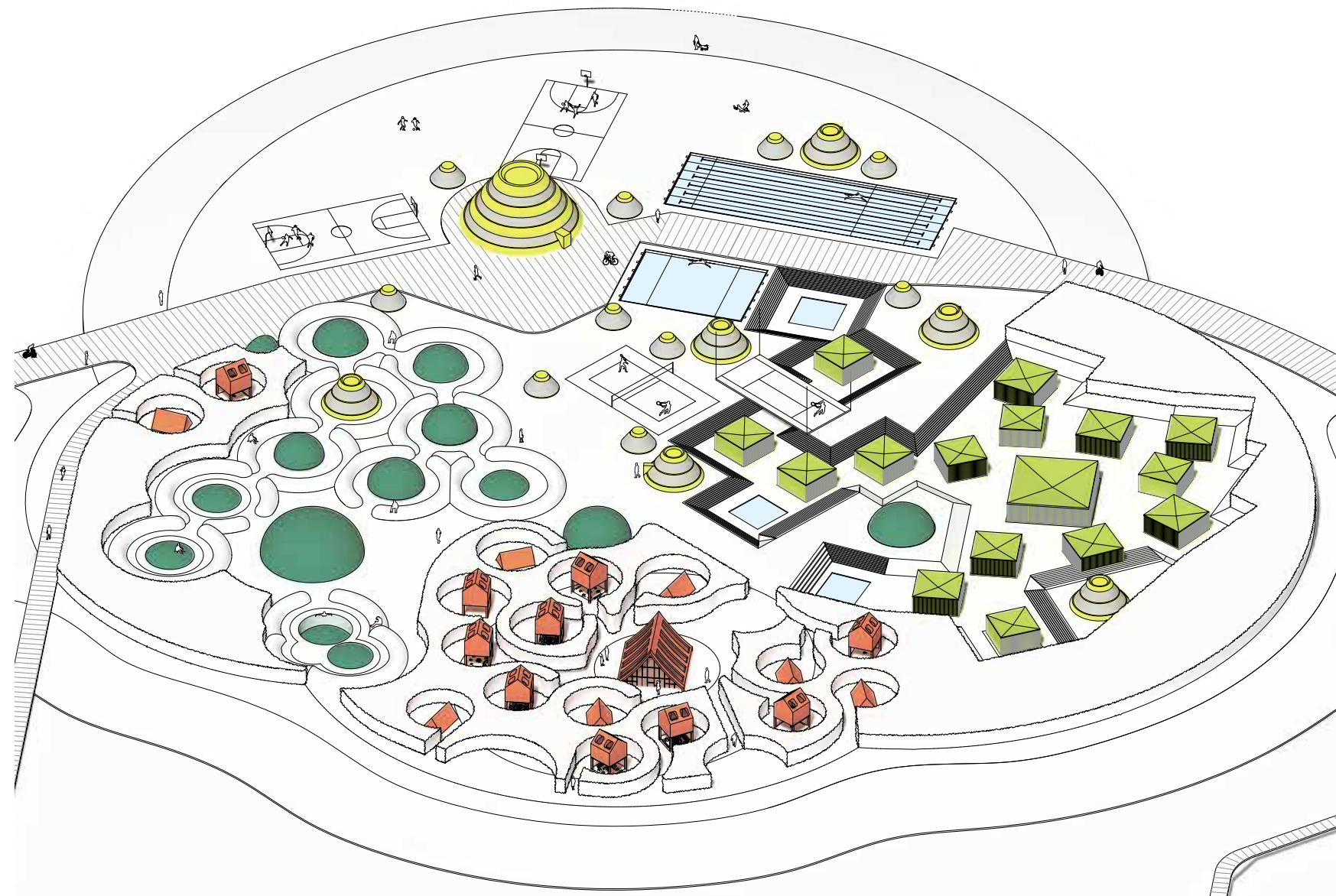


Program Adjacencies

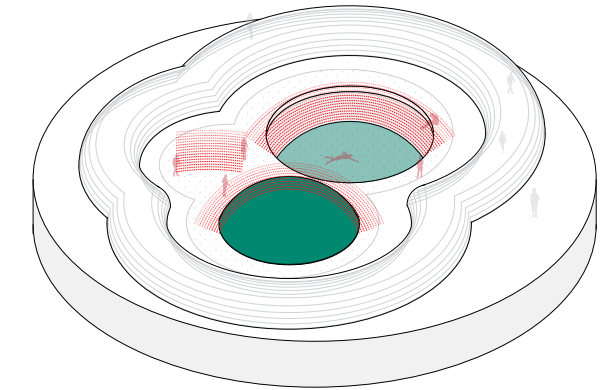
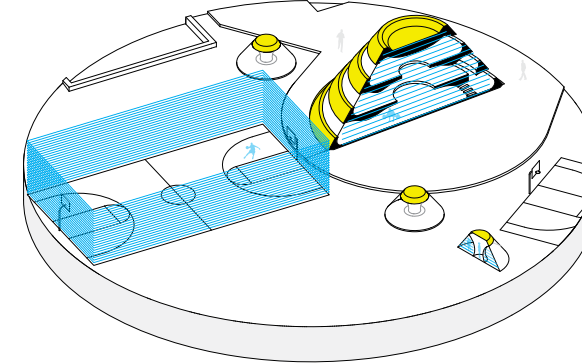
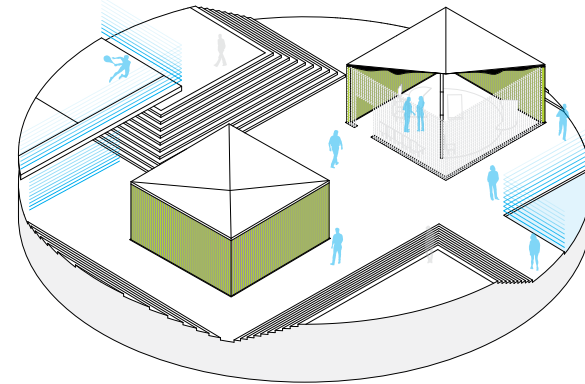
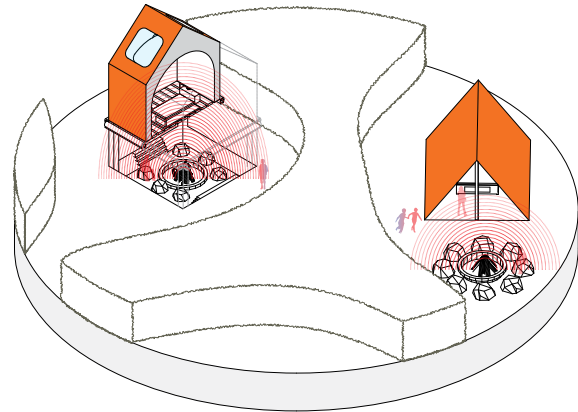
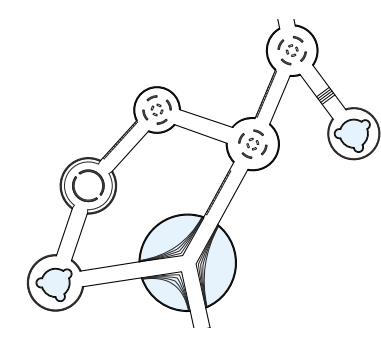
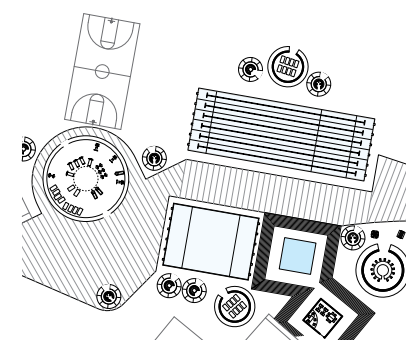
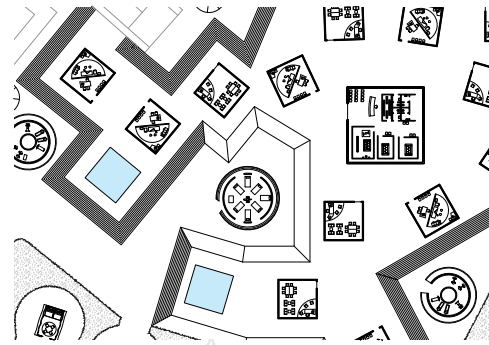
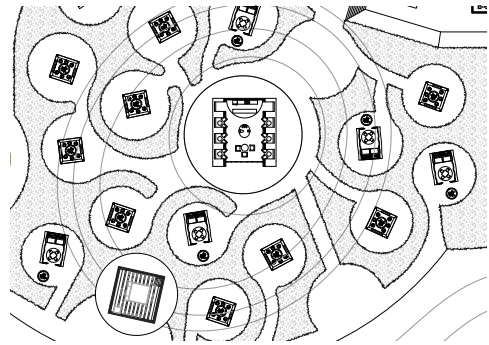


Health Gradient per Program Group

- Water Therapies
- Sports Center
- Urban Wellness
- Camping
- Program Adjacencies







Camping Area Conditioning (Core A)

1. Conditioned Sleeping Interior
2. Open Floor for Temperature Transition
3. Roller Screen for Climate Control
4. Gas Controlled Fire Pit
5. Rock Seating
6. Gas Supply Line (underground)
7. Privacy Hedges

Urban Wellness Conditioning (Core B)

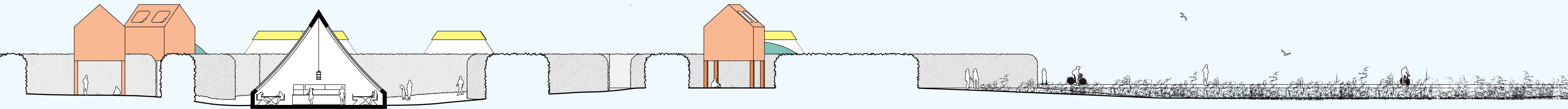
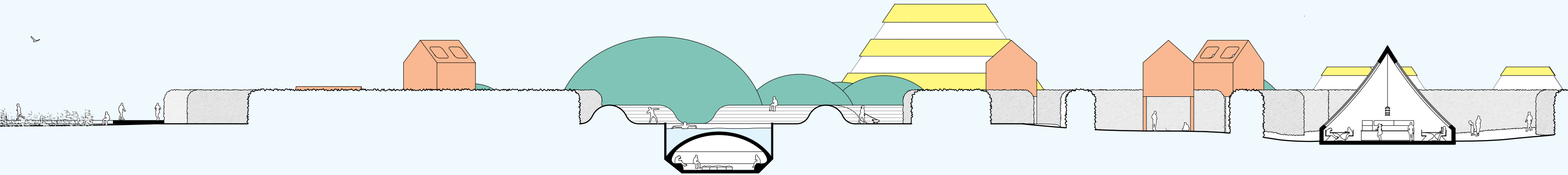
1. Conditioned Exercise Space
2. Boardwalk
3. Conditioning Supplied from Below
4. Changing Room and Shower
5. Lockers and Bathroom
6. Basketball Court with Conditioning
7. Swimming Pool with Laps
8. Area beyond Climate Zone

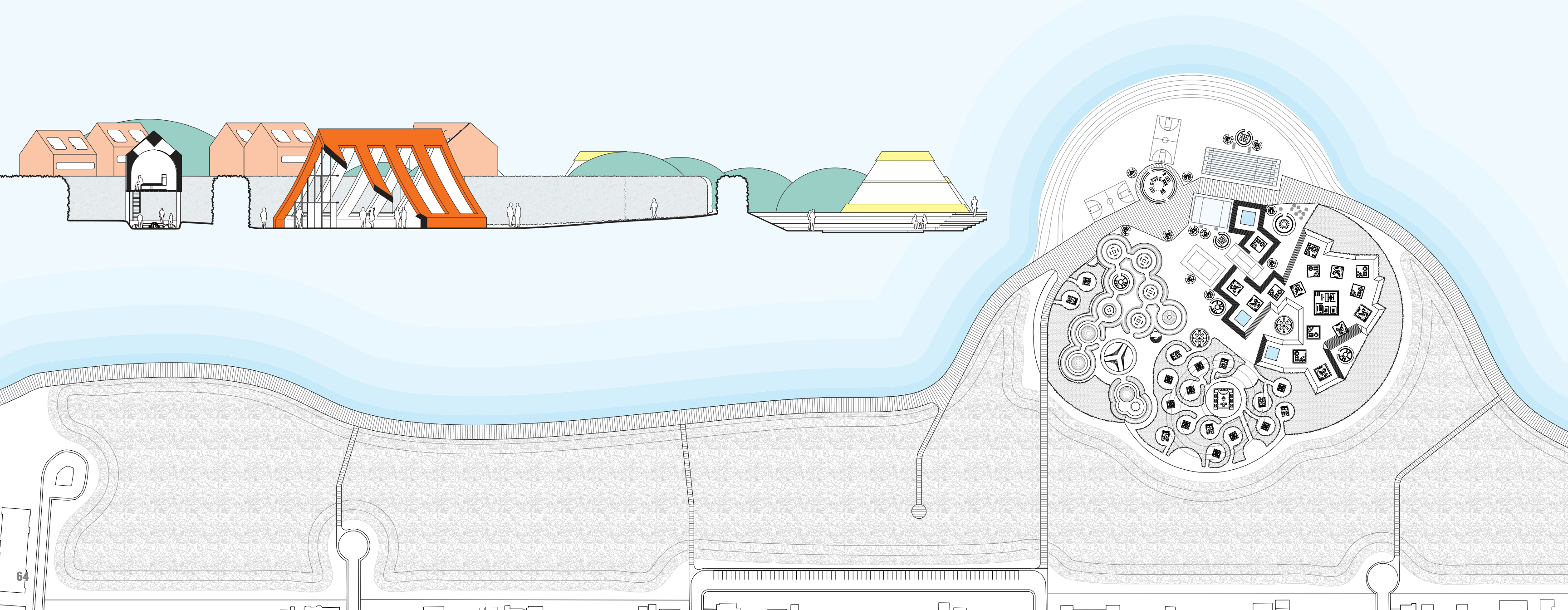
Sports Area Conditioning (Core C)

1. Conditioned Sports Court
2. Steps to Urban Wellness Zone
3. Pavilioned Health Centers
4. Check-In Space
5. Exam/Procedure Space
6. Translucent Glass Facade
7. Reflecting Pool

Water Therapies Conditioning (Core D)

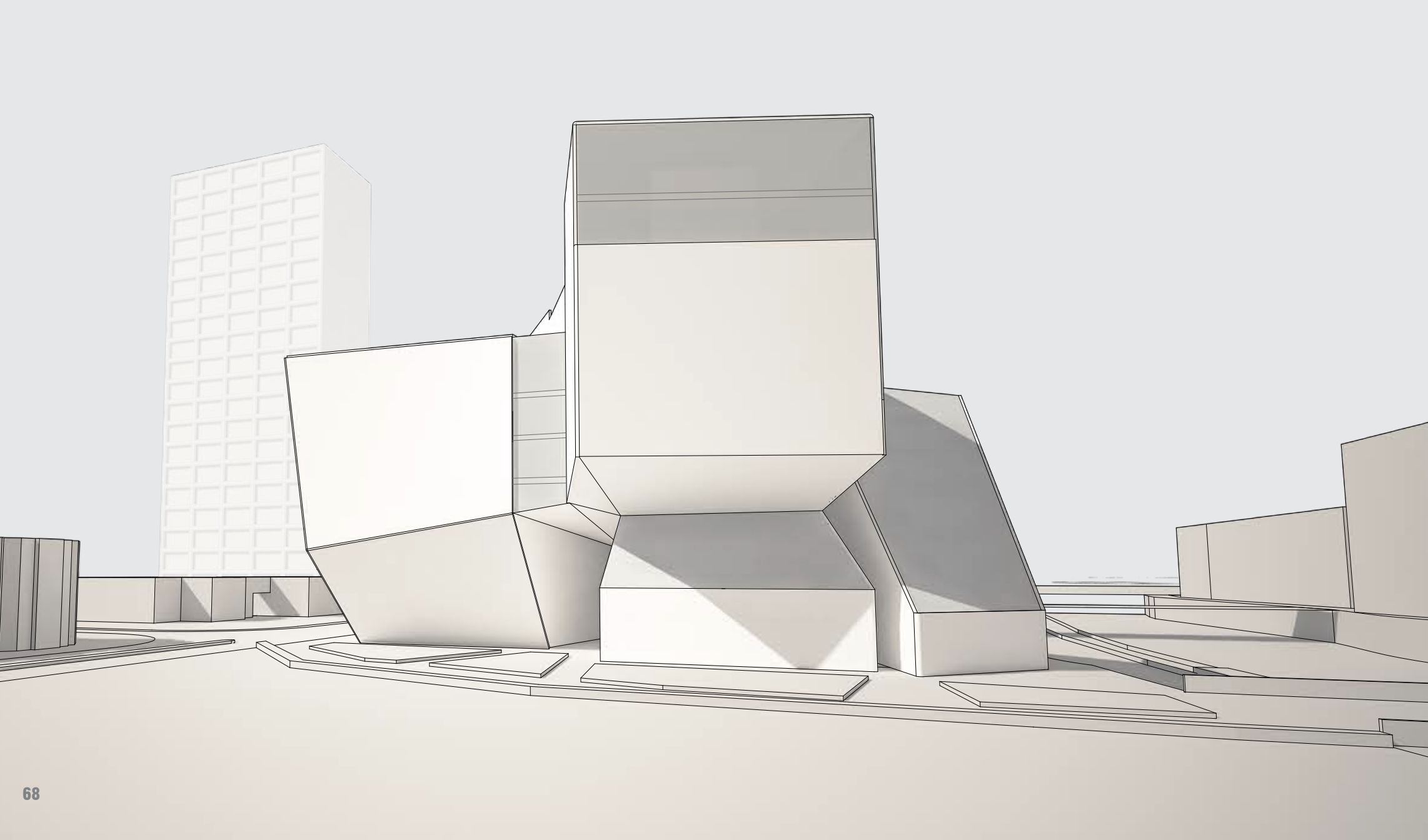
1. Conditioned Surface Swimming pool
2. Underground Heated Sauna
3. Landscape Buffer to Retain Artificial Climate
4. Conductive Ground Plane
5. Partially Exposed Sauna roof emits Heat to Exterior
6. Area beyond Climate Zone





Architecture and Design...

...Arts, Music and Theater
All together now!



UIC ARTS + PERFORMANCE CENTER

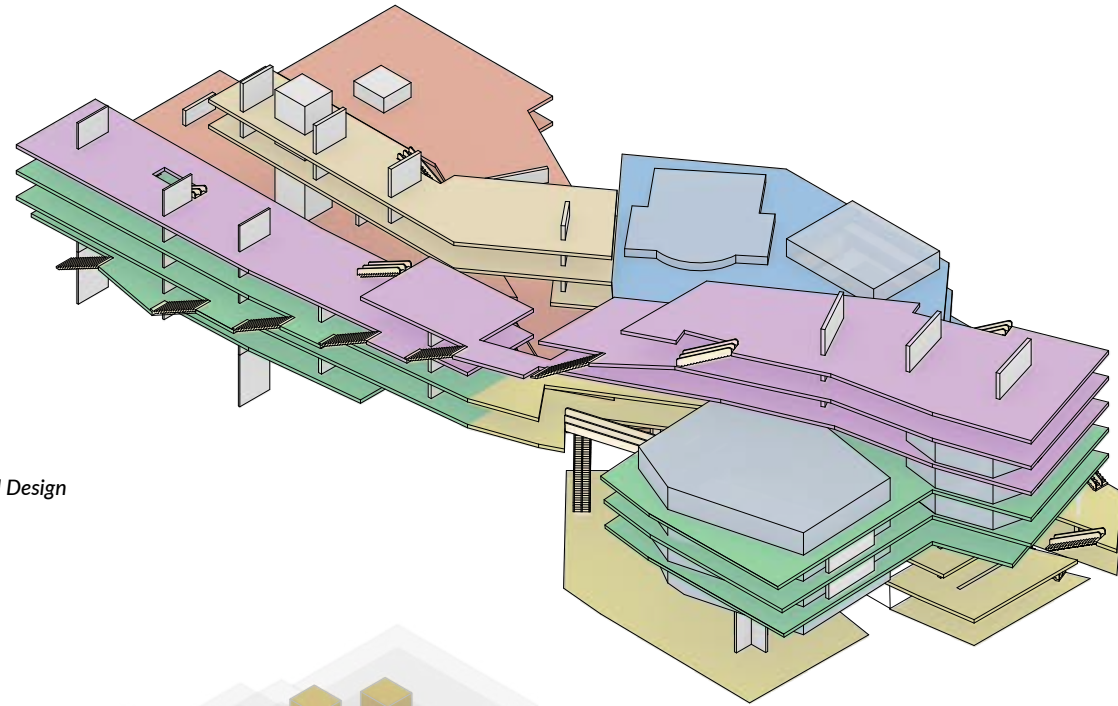
Instructor: Jose Oubrerie

Fall Semester 2016 Studio

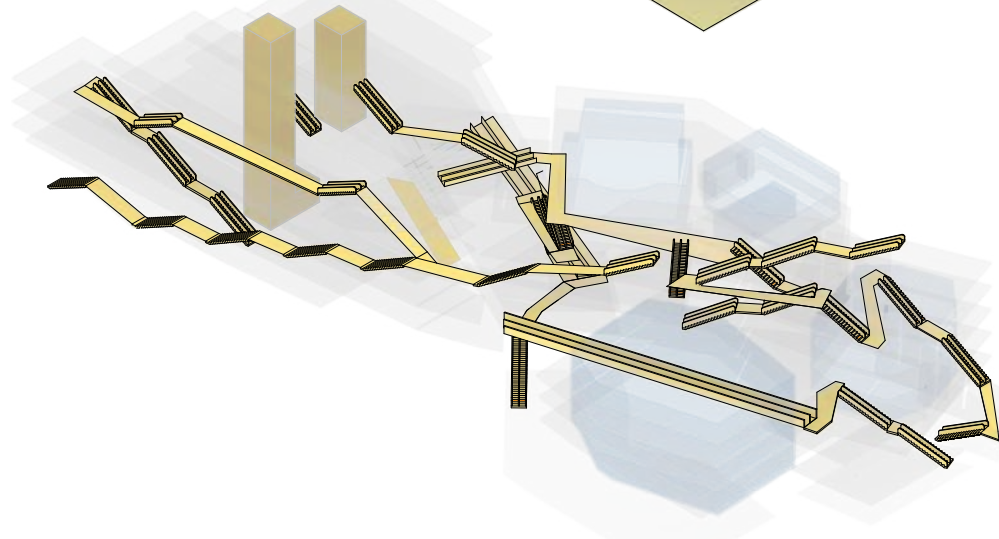
A project which spawned from a massing study of how extrusions and intersections create space, this building is an intermixed sequence of extrusional forms. Each form contains a public activity space, which sets a departure for the more specific programs beyond. In a head-to-tail organization, the ends of each wing house the private and major-oriented spaces, while the heads are inclusive to all majors and visitors. Circulation through these voids and extrusions are performed by a network of escalators, zig-zagging you across the building. Majors which were once separated through building and location will interact, bringing a larger awareness to the rest of the university and the larger public.

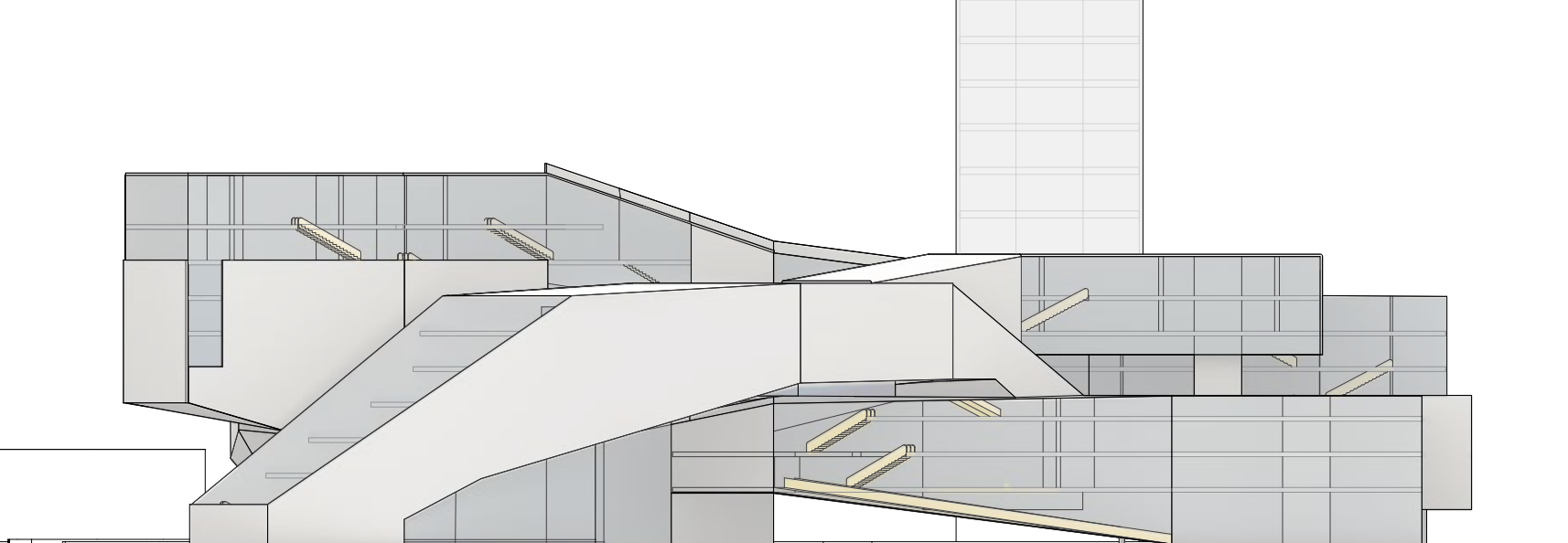
Program Diagram

- Public
- Theater
- Fine Arts
- Architecture and Design
- Music
- Administration

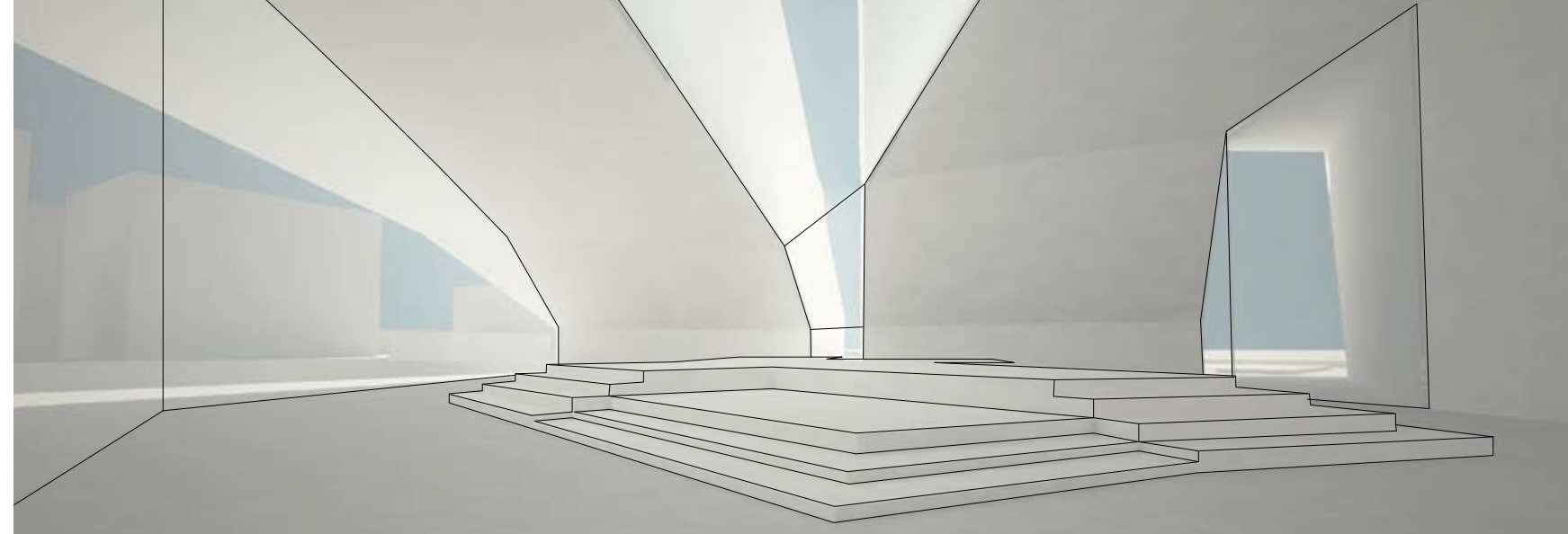


Circulation Diagram

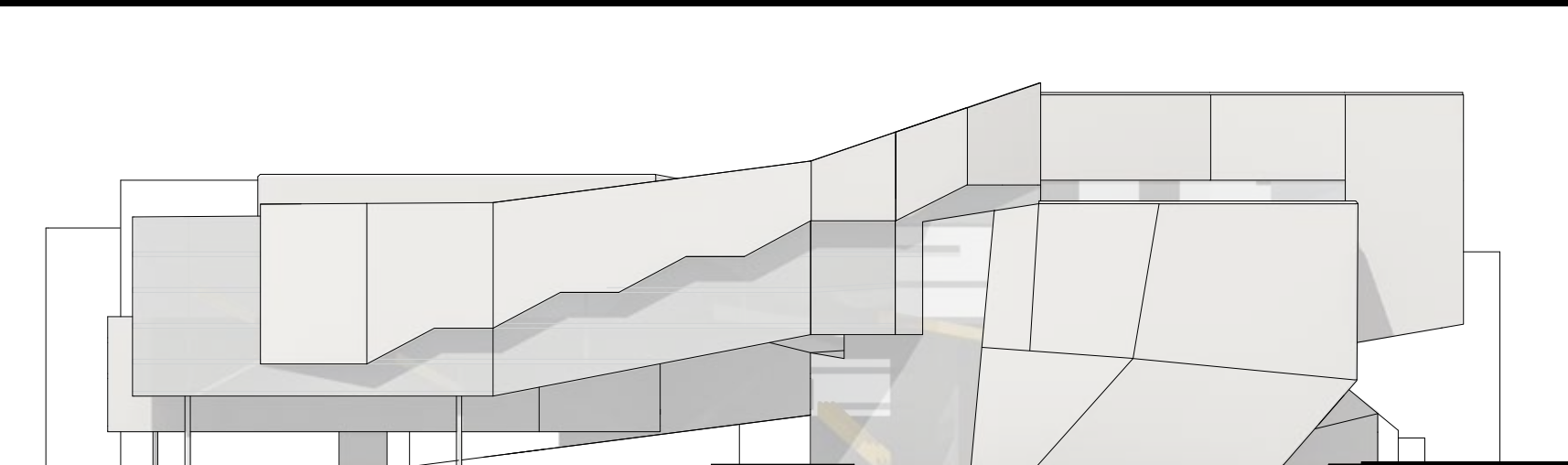




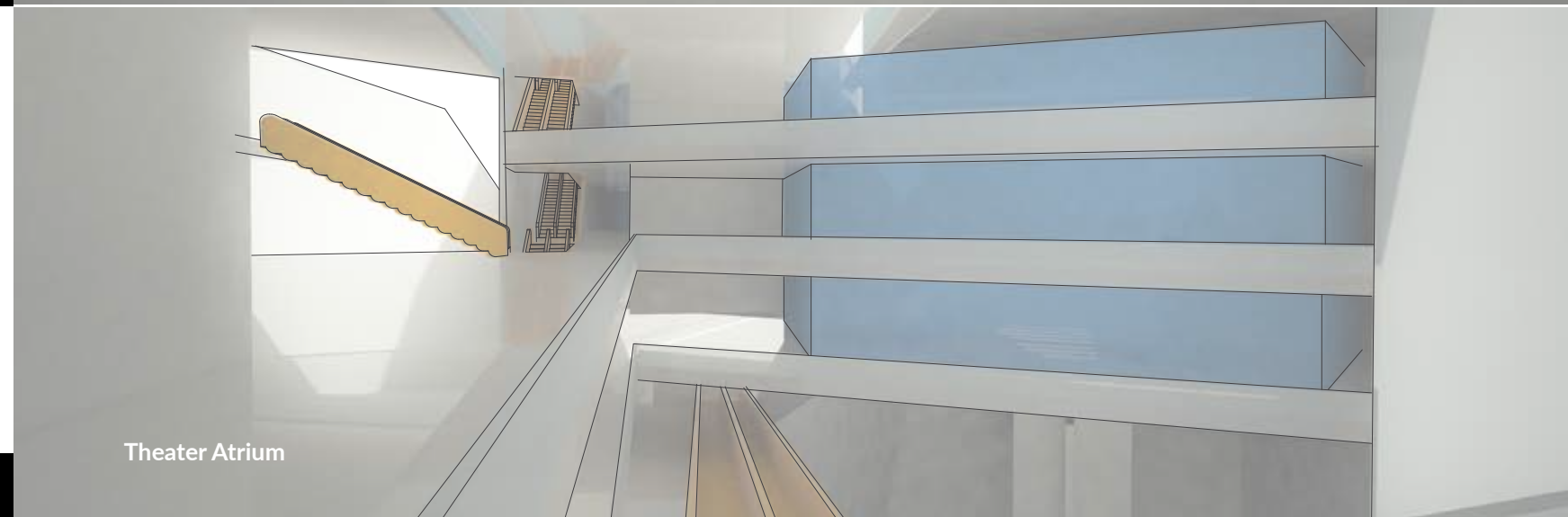
North Elevation



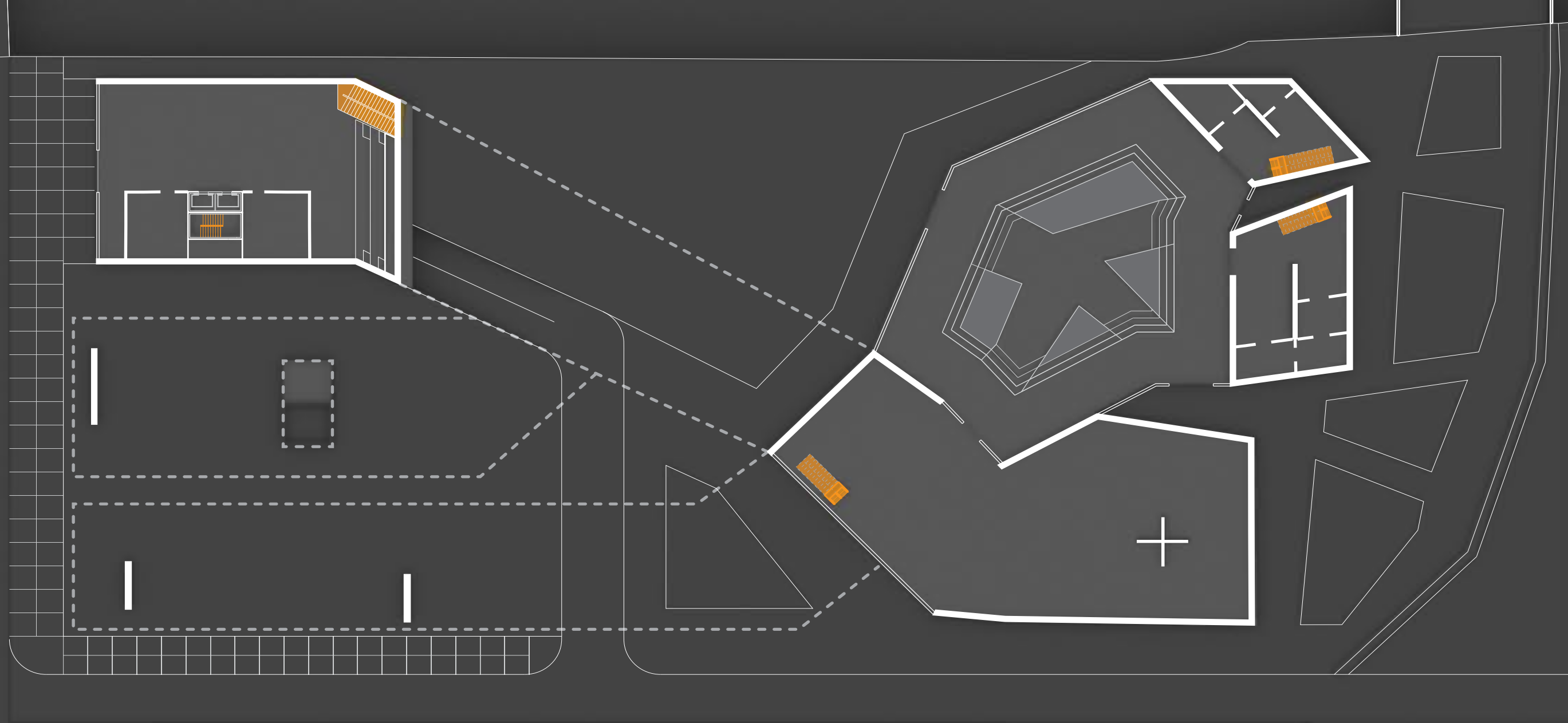
Entrance Lobby

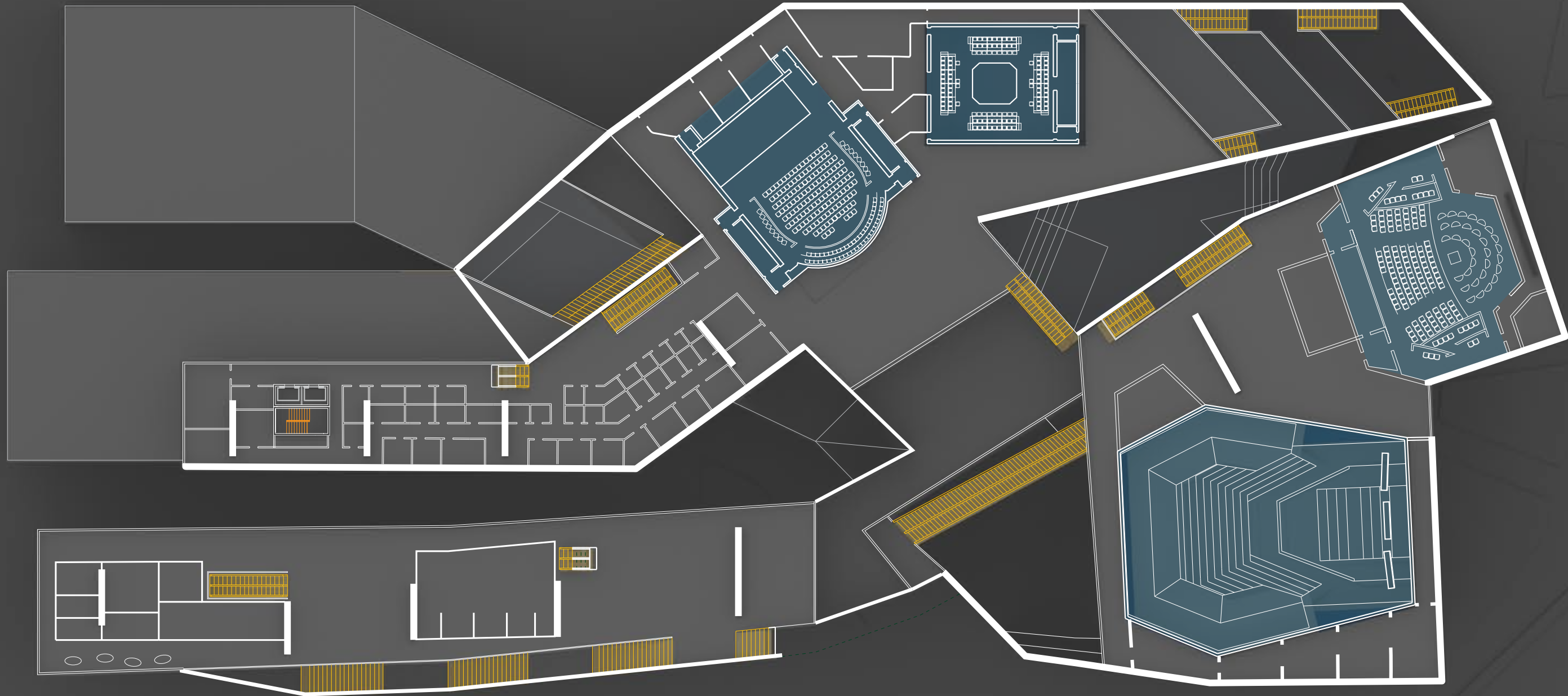


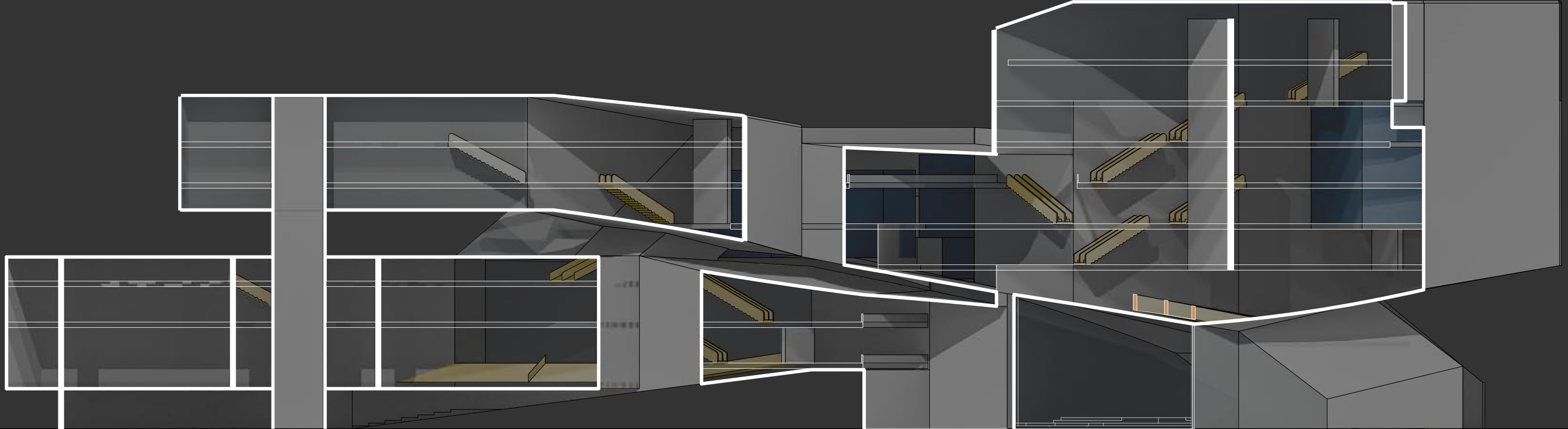
University (South) Elevation



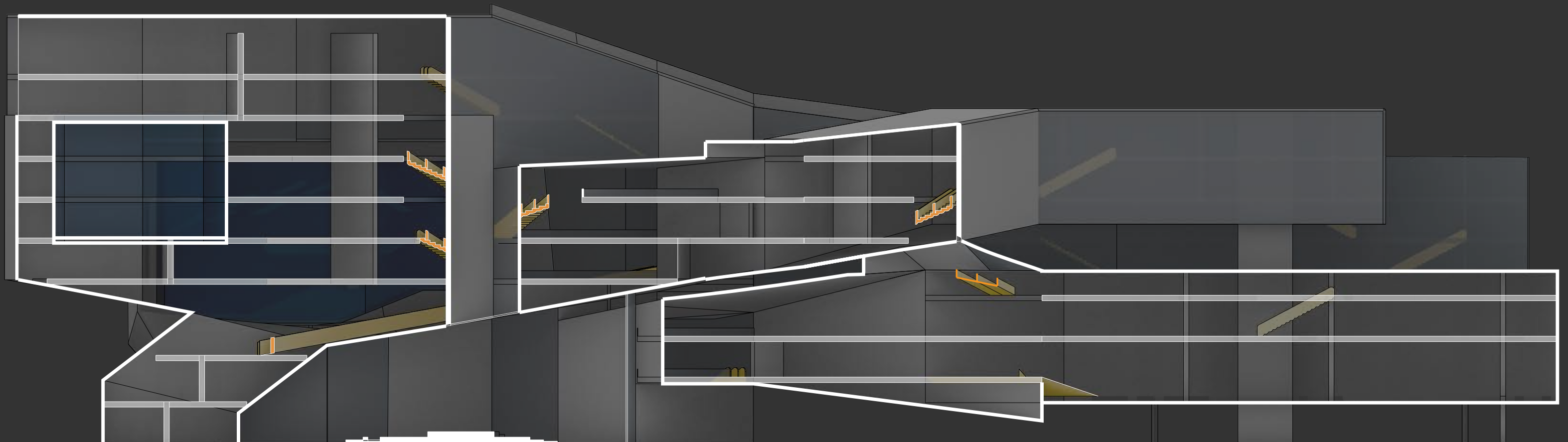
Theater Atrium



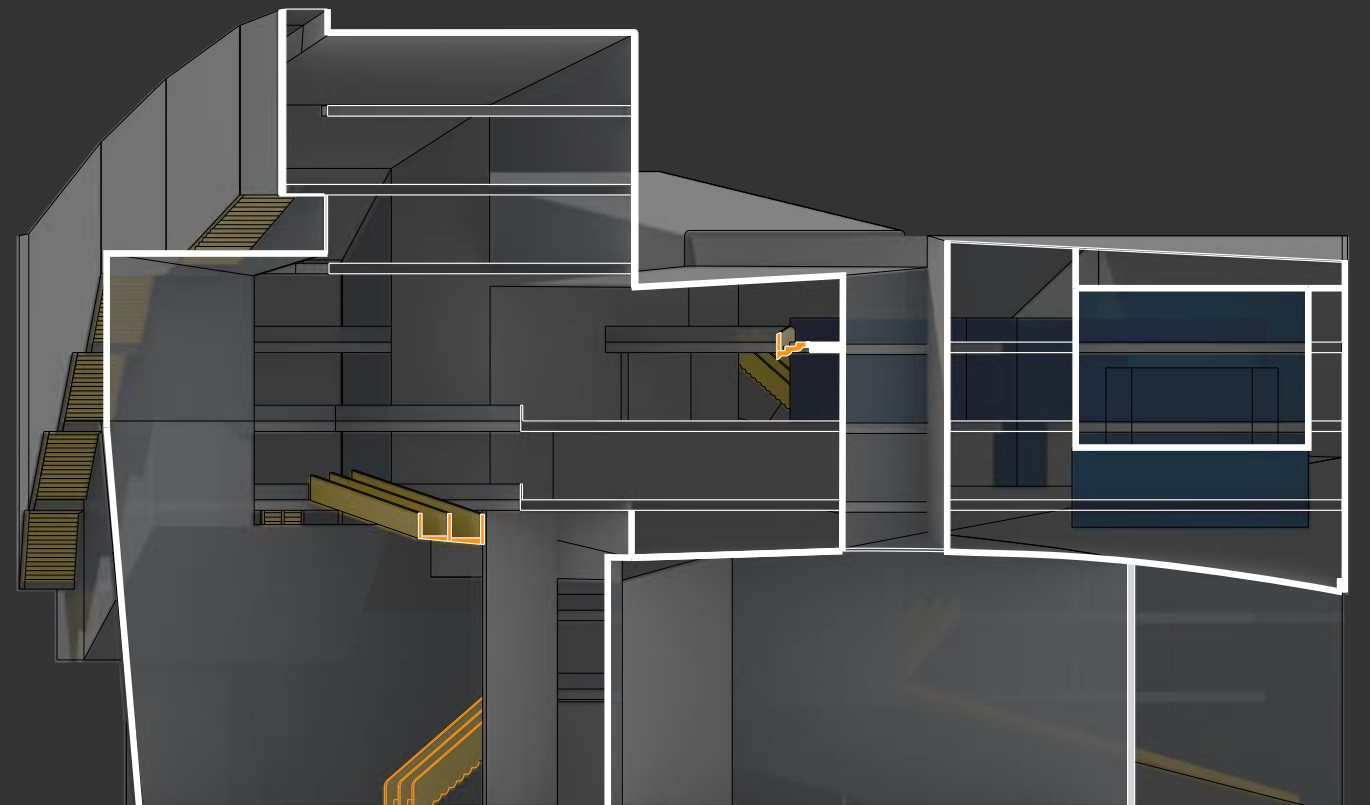
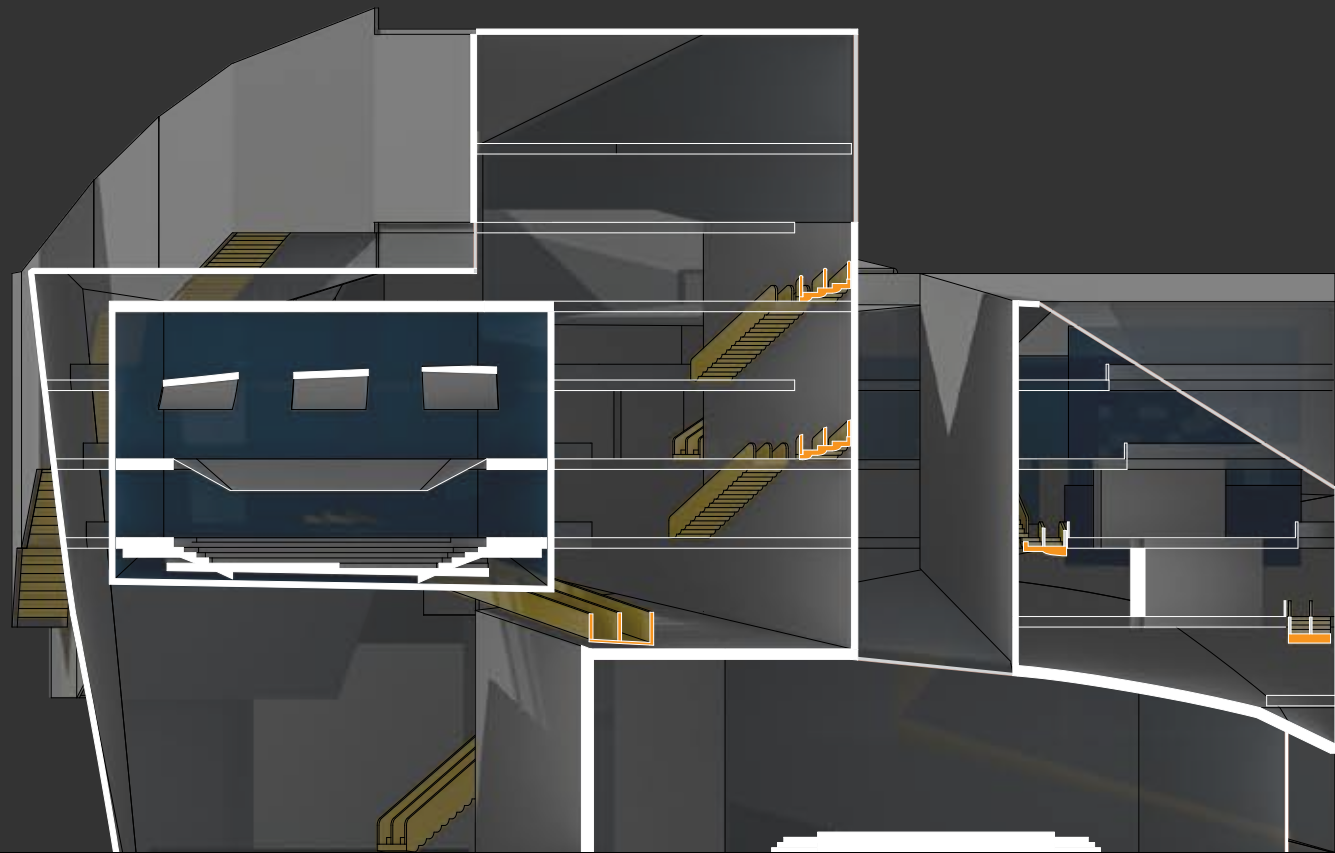


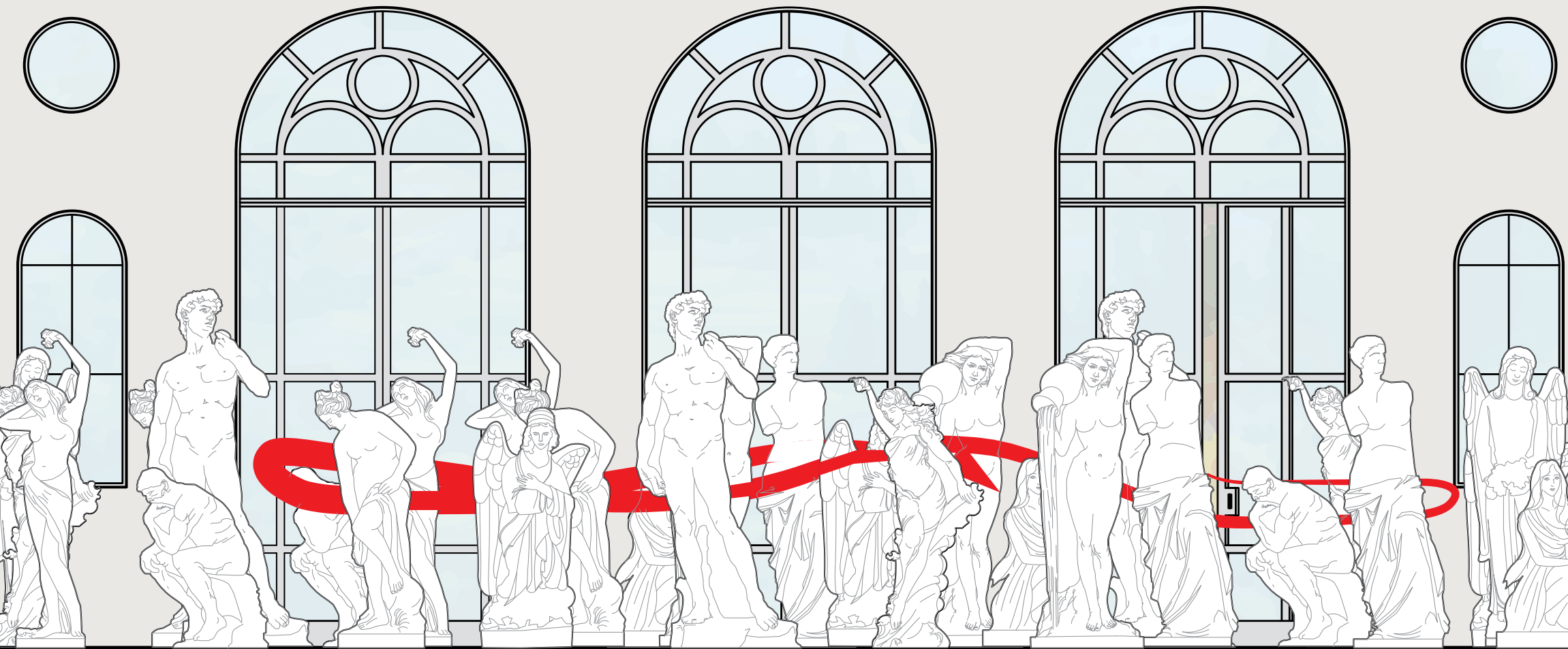


South Section



North Section





A TO B PERFORMANCE

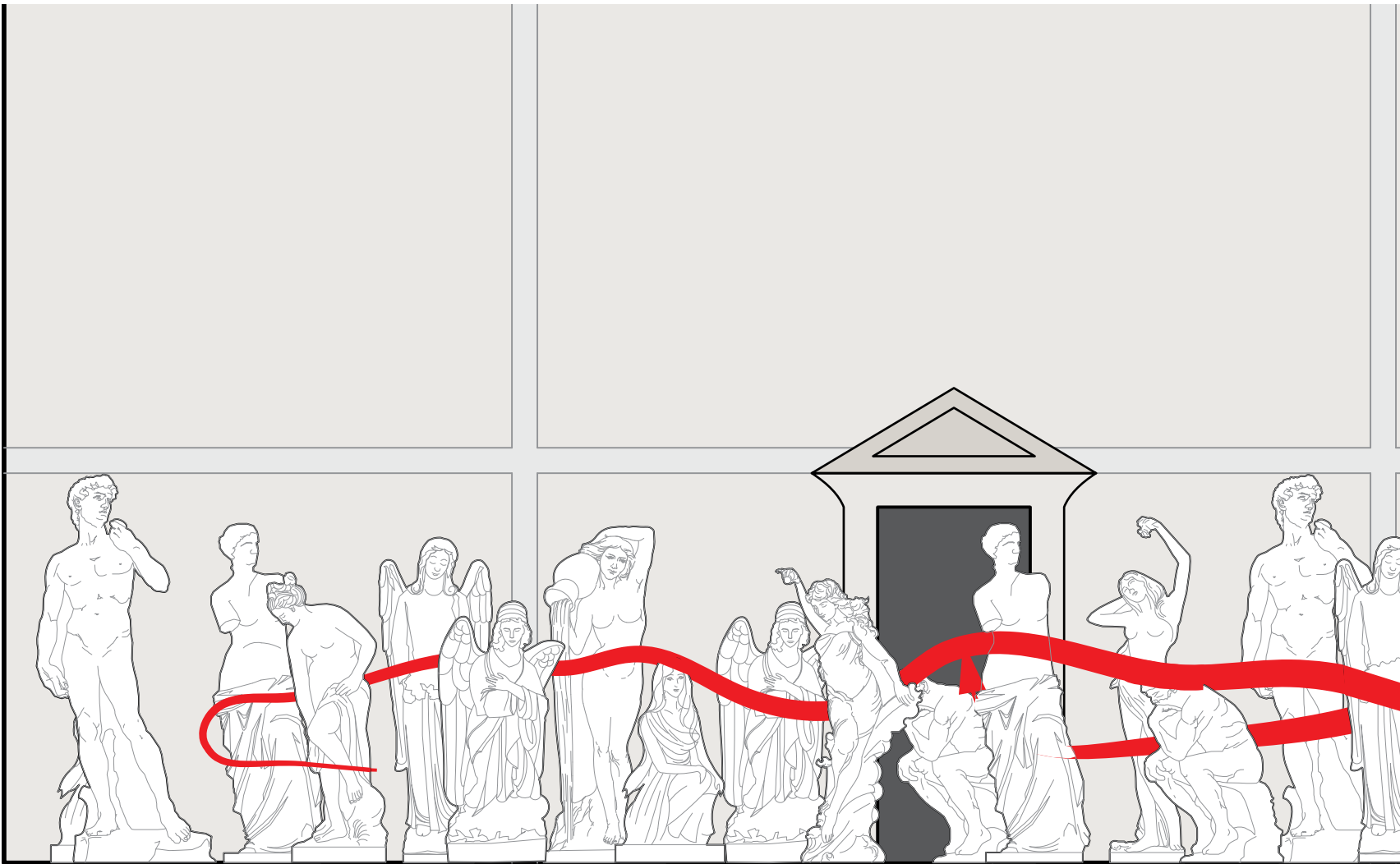
Instructor: Sarah Blankenbaker

Fall Semester 2016 Elective

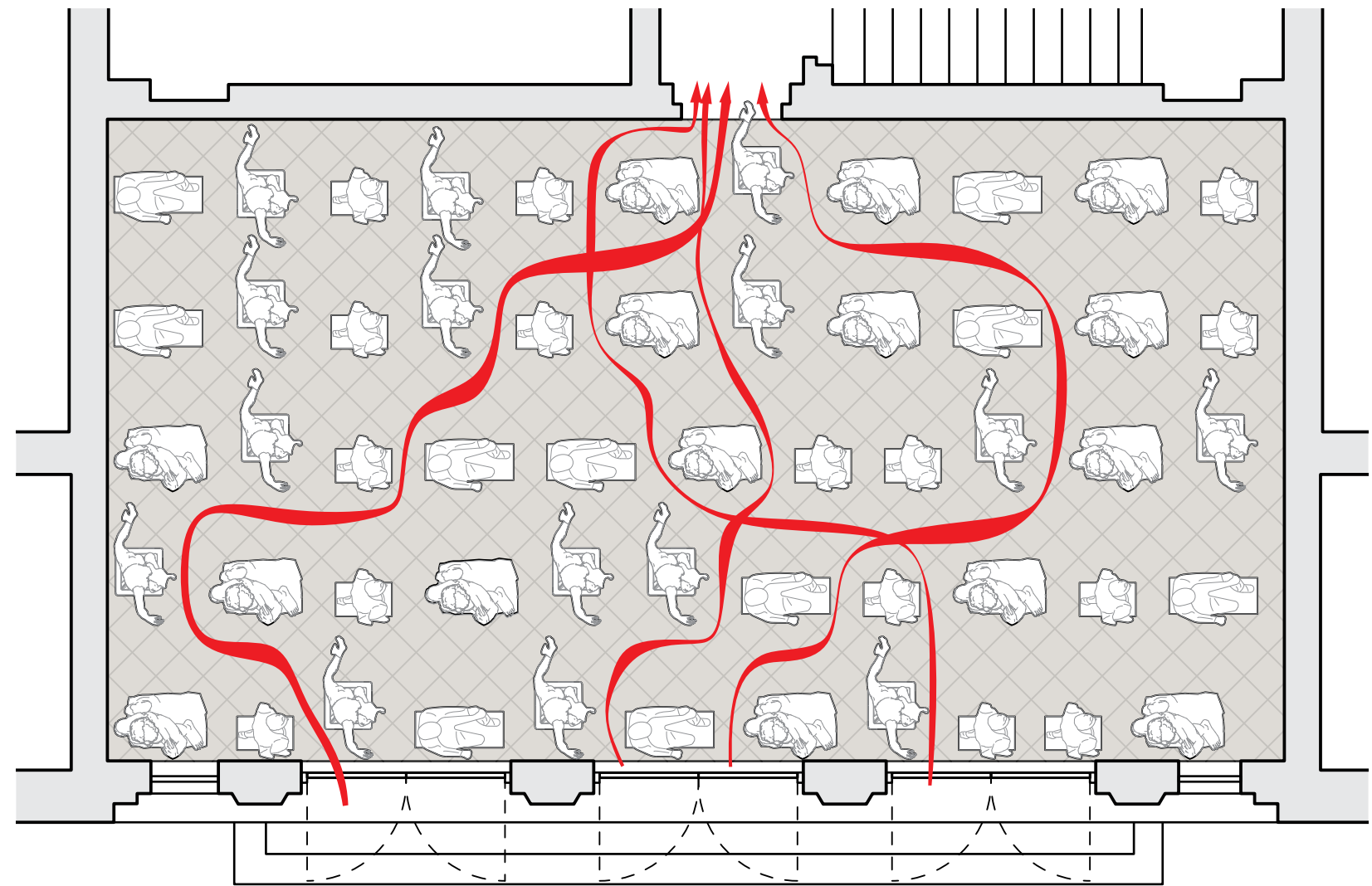
Tschumi believes program is the event or a performance. With excess accumulations in a space (a space with its own intentions), navigation through this space becomes a performance. Movements of the body, stepping around objects, preventing these objects from moving as you move through the space become the event. Accumulations are beneficial because they create better dynamic program in the space in which they are located.

Here at Villa Tressino, a Palladian work, the once axial entrance foyer is now filled with an extreme abundance of sculptured works. Once these objects overtake the original program of a space, that space ceases to be a container for program, but rather becomes the program itself. In this situation, circulation around objects unsuited for their current environment is unstable, allowing the person to choose their way to cross the space, with the choice of a large number of routes.

The original program has been altered and the hoarder must respond to the space they have created.

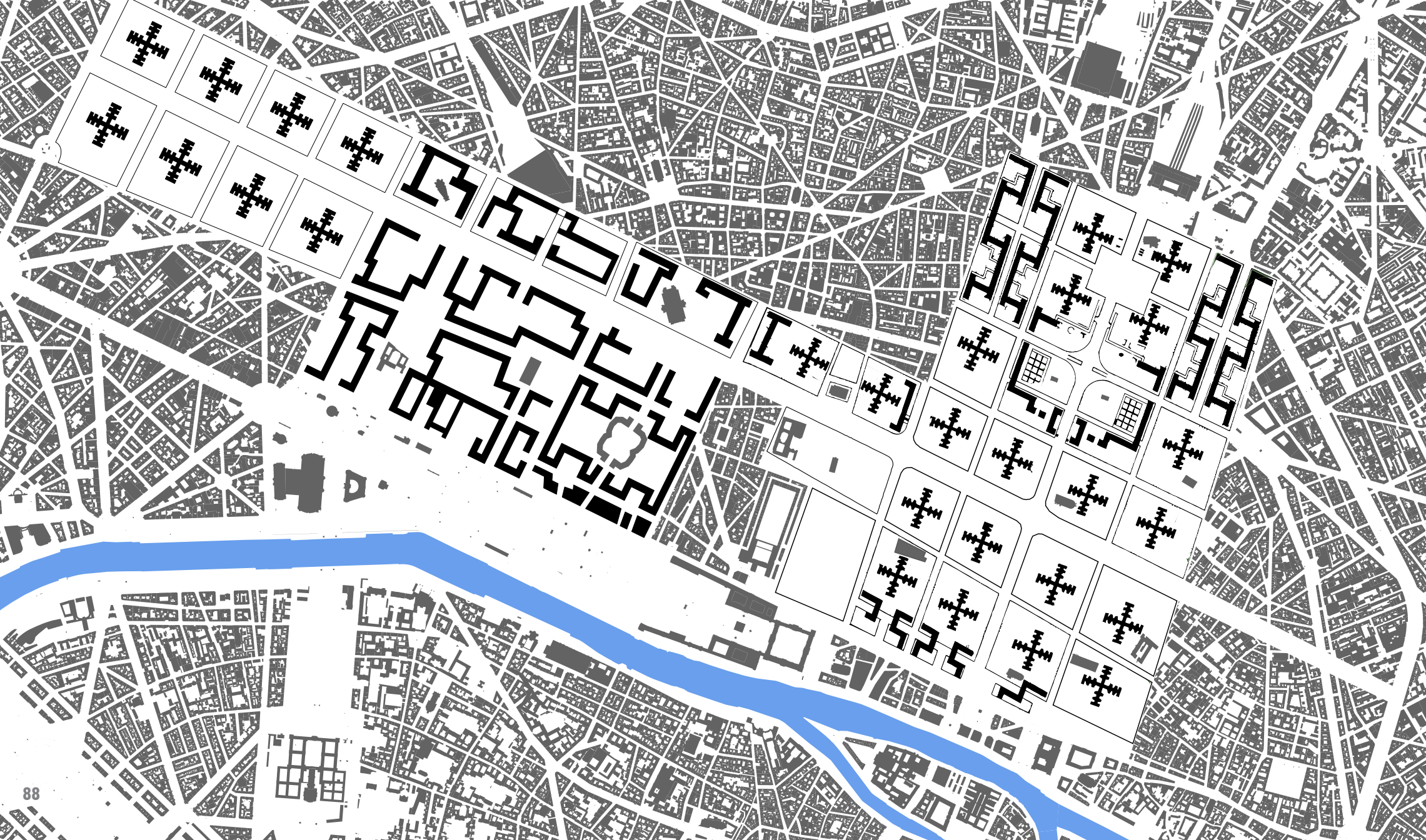


Elevation (Movement)



Plan (Speed)

Slower
 Faster



A STUDY OF **PLAN VOISIN**

Instructor: Alexander Eisenschmidt

Fall Semester 2015 Theory

(Excerpts from Essay)

The Voisin Plan of 1925 seeks to replace the densest sections of Paris with crystal skyscrapers and large green spaces, clearing out the old condensed city incapable of supporting future transportation and quality of life. This plan was based on his conceptual *"Contemporary City for Three Million Inhabitants"*. Yet, an overlooked component of this plan is Corbusier's desire to preserve sixteen selected existing buildings which he either built around or dedicated green spaces to them. Even Corbusier could not ignore all the conditions of the existing world in which he designed.

Corbusier stated in his proposal in *"The City of To-morrow"*, that he would preserve specific structures that fell within the footprint of the plan. An unusual move for such a grand proposal, he was overcome with a sentimental idea of viewing and occupying these existing monuments in the round, through preservation on open ground or within a courtyard of the new proposed structures. Only five percent of the entire Voisin site plan contained buildings and he was confident in the preservation of these structures. No stranger to Paris, he states, "The Voisin plan shows, still standing among the masses of foliage of the new parks, certain historical monuments, arcades, doorways, carefully preserved because they are pages out of history or works of art."

Experience

Gresham Smith - Architectural Designer

February 2021- May 2023, Chicago, IL

Ann and Robert H. Lurie Children's Hospital - Redesign of 2nd Floor Entry Experience, Check-in, and Security Stations - DD / CD Phase Coordination and Renders. Assisted Snr Interior Designer in creating new check-in desk to fit with existing hospital aquatic themes.

McLaren Flint Hospital - Developed Sketchup model from Revit plans to texture and created 3D Animations for new Proton Center addition to house the first-ever compact proton therapy machine from Leo Cancer Care. Created VR headset renders to allow client and marketing event attendees to preview new machine and space before construction.

HOK - Design Professional

October 2018 - May 2020, Chicago, IL

WPP Commercial Office Fit-Out - Produced collage Renderings using Revit and Photoshop during the end portion of Design Development.

University of Michigan Medical - Responsible for 7 Patient Bed floors and coordination when project reached CD Phase. Previously assisted the space planner with room arrangements during SD Phase.

Skills and Software

Drawing: Revit, AutoCAD, Vectorworks

Modeling: Sketchup, Rhino 3D, 3ds Max, Substance

Rendering: Lumion, Enscape, V-ray, Maxwell

Adobe Suite: Photoshop, Illustrator, Indesign, Lightroom

Management: Newforma, Bluebeam Revu, Microsoft Apps

Photography and Video: Architectural, Location, Property, Interior/Exterior, Project Documentation

Skills:

VR Development with Oculus Rift and HTC Vive

3D Animations for internal and client-side presentations

Illinois Dept. of Health Permitting Document Submittials

City of Chicago Permitting Process

Medical Space Planning Assistance

Education

The University of Illinois at Chicago

M. Arch, May 2017

The Ohio State University

B.S. Arch., Honors Research Distinction, May 2013

Italy Architecture Study Abroad, 2012

3-Month Immersive Studies. Collaborated with Italian students on the **MAXXI Re-Cycle Competition** in Rome. March - June 2012. Advisor: Kay Bea Jones

Activities / Interests

Honorable Mention Winner

2017 Underline South Chicago Competition

10-Day Design Proposal, UIC, January 2017

Current Licensure Progress

Actively studying and taking ARE Examinations

Project Management - PASSED (May 2023)

Habitat for Humanity Participant

Digs for Dignity Participant

Landmarks Illinois Member

References

Upon Request