

Kristin Shifflett

Spring Thesis
Studio 402



GESAMTKUNSTWERK

[guh-zahmt-koonst-verk]

harmony light movement perspective rhythm color

PROJECT OVERVIEW - finding my program

Starting out with my project, I was fascinated with researching a variety of visual art forms, and how they could potentially come together in exhibitions, and experiences. How could I create a space that someone come to experience and leaves feeling changed? I began with sight creating rooms with bright colors and lights. How could I in turn create these experiential spaces that emphasize and compartmentalize our five main senses? I began looking at precedents of museums for smell, sound, and sight. That's when I came across the idea of a museum for someone who maybe cannot see or maybe not hear. People who are down one sense that don't usually get the full experience of a museum, so what if my building allowed those people a heightened experience and allowed others with all 5 senses to have an even playing field by subtracting that sense. I found this incredibly fascinating and started imagining a completely dark room that would require you to use a heightened sense of awareness without your vision. Upon research I found that there are people who resent this 'simulation' of blindness - it results in empathy sometimes, but more times than not allows for outsiders to pity them and think they are less capable in life. This idea intended for education could be seen as insensitive- I realized this was not the way to go.

This is when I came across Synesthesia.

PROJECT DESCRIPTION

Synesthesia is a perceptual phenomenon where stimulation of one sense leads an involuntary pathway to a second sense or cognitive path. It is a neurological cross of senses that happens when you have more connections between sensory regions in your brain. It includes things such as seeing music in color, perceiving that shapes have a taste, smelling an image. Studies show that these Synesthetes are found in 2-4% of the general population and it is seven times more popular in artists. It seems that this enhanced way of sensing definitely increases creativity but it is also linked to increased memory, academia, expertise, and brilliance. Most don't even realize that their visual perception is not what everyone else sees making it rare to know you have it. We can look to history and learn some great painters would describe things as "believing he could evoke sound through sight and painting (Wassily Kandinsky)," musicians that could see their music dancing in their head while learning to play and influence their musical decisions.

Little is known about synesthesia and how it develops but many wish to experience it. In some cases we have had the realization that we all perceive visuals differently than others - go back to the Black & Blue or White & Gold dress that broke the internet. This was an early simplified version proving that we know very little about neuroscience and why it differs from person to person. This psychological blending of senses is finally becoming a conversation. Finally sitting down, thinking, and creating a dialogue about how senses differ from person to person - asking questions as to what you see, what other people see - the inner workings of the human mind.

This is an unbelievably fascinating discovery in the world of perception. I want to be able to create conceptual spaces that amplify this extreme variant of multisensory processing. How could I simulate multiple senses being processed in the brain at once as well as creating a dialogue between people about how they see the world. These are questions we don't often ask others and why it has taken so long to know this little about synesthesia. Maybe this petri-dish of multi-sensory experiences can help to lead to this dialogue resulting in new discoveries.

- What would be the understanding of the world be if we were to perceive the world not as a sum but as a product of our senses? Can an object be described by the color we hear and the sounds we see? How could I create a building that creates a synthetic experience of synesthesia - that allows this fascinating crossing of senses for everyone to experience? Can this building not only create a dialogue but amplify discovery and research on this path to unlocking a new part of our minds and intellect?

Major research in the world of technology - being able to smell through a screen and in the future can become an expanded design palette - for example: scents that improve mood and promote civic behavior can change an urban city. It has always been something hard to record in tangible media but they are slowly being able to be captured in a variety of ways which help to enrich and refresh traditional experiences. It has great potential in design and artforms due to expanded creativity of the mind. With developing technology more and more people desire to have multi-sensory experiences and tapping into that creativity. My project will aid in new discoveries and this phenomenon.

PRECEDENT RESEARCH

books



127 John St Entrance Facade
New York, New York, USA
Rudolph de Harak



NJPAC Lucent Tech Center
Newark, New Jersey, USA
Pentagram



Newspaper Kiosk
Unbuilt
Herbert Bayer



O'Hare Airport - United Terminal Walkway
Chicago Illinois, USA
Michael Hayden



CONCEPTUAL STUDIES



*harmony
&
light*



*color
&
harmony*



*light
&
movement*



*rhythm
&
color*



*movement
&
perspective*

*perspective
&
rhythm*



the book in front manipulates the cover - layering



in the absence of books

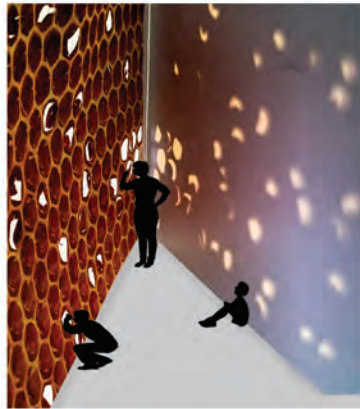


movable, changeable walls

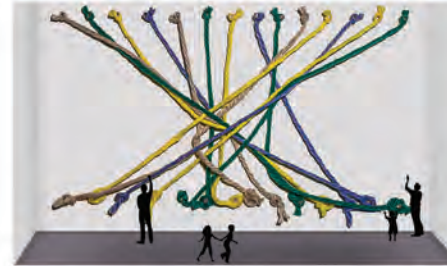


light
&
movement

movable / light / interactive



interactive threads idea



color
&
light

color / light / reflection



models

movable walls / light / shadow / color



pattern / rhythm / perspective



visuals/concepts/research

more precedents



Colorscapes
Philadelphia Museum of Art
Francis Kéré



a multitude of her works
medium: light and dichroic panels
Chris Wood



multiple works
architecture & light
Tadao Ando

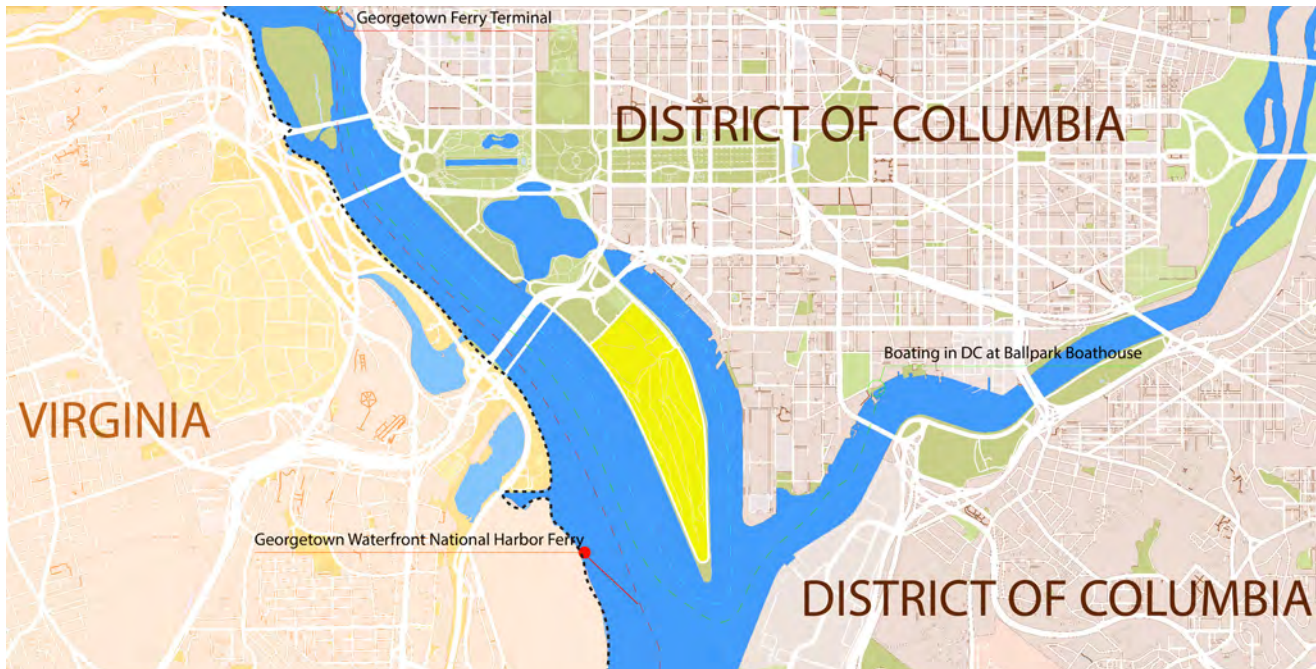
artehouse, DC



SITE PLAN CONTEXT



mapping of nearby marinas

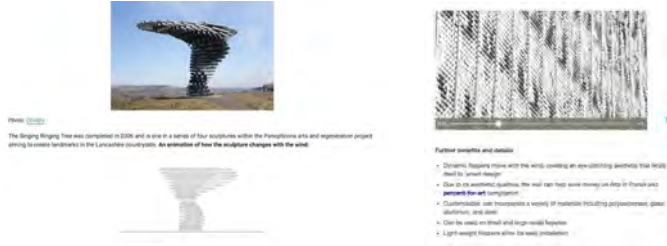


mapping of Potomac River boating

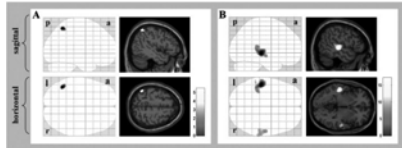
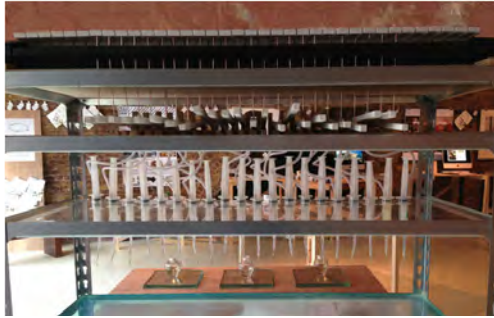


anticipated building site

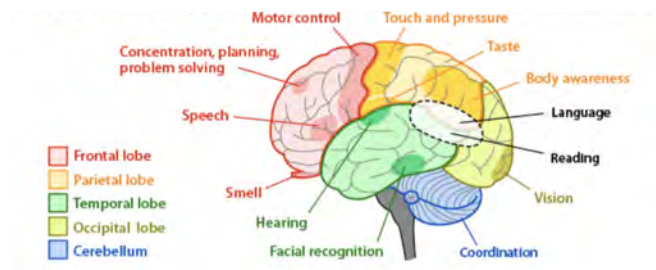
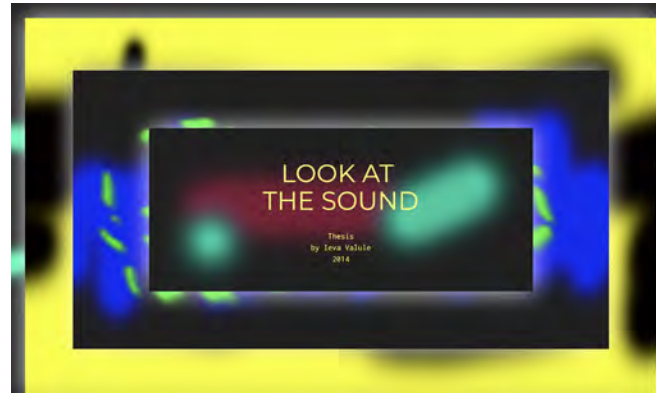


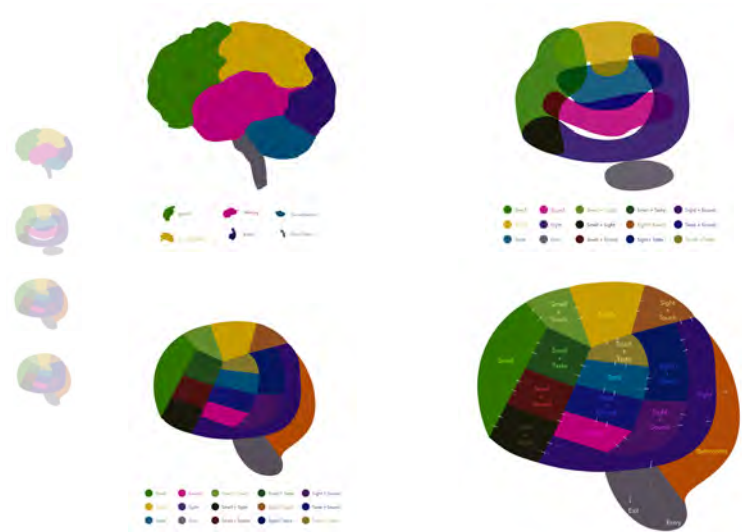
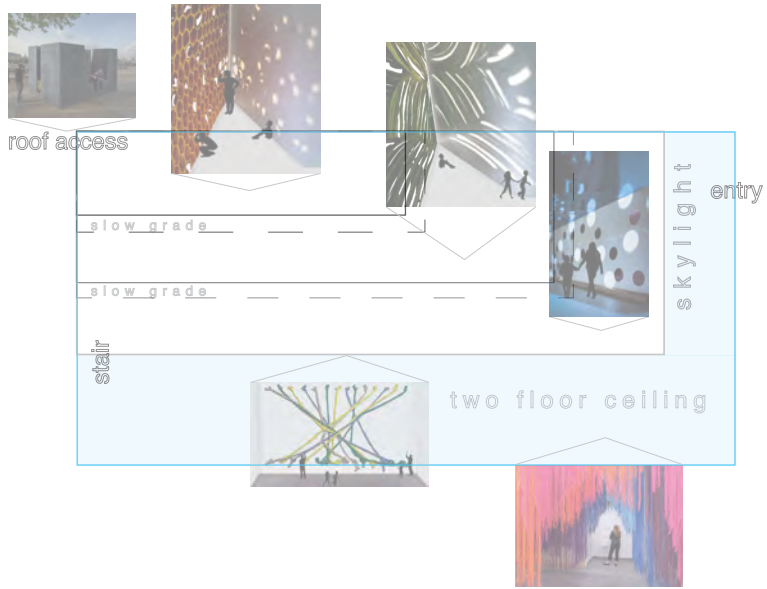


Researchers Show There Is A Simple Way To Induce Synesthesia In People With Normal Perception



A	Lavender
B	Orange
C#	Red
D	Blue
E	Green
F#	Brown
G#	Black





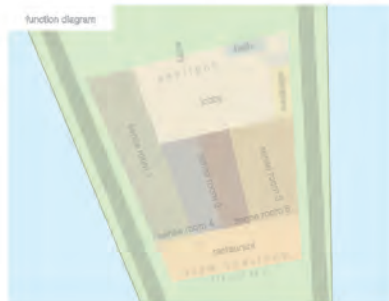
bubble diagram



cluster diagram



function diagram



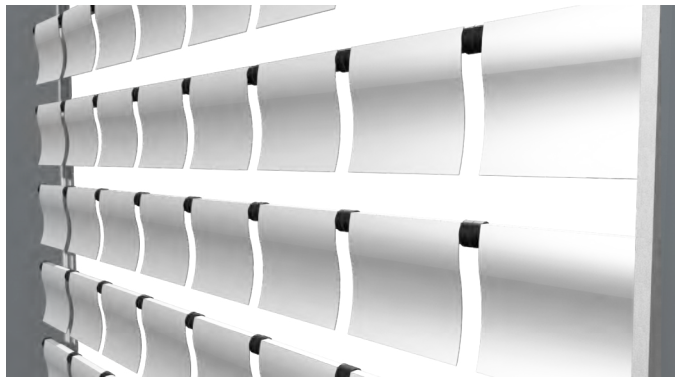
sectional diagram



stacking diagram



FACADE/ENVIRONMENT



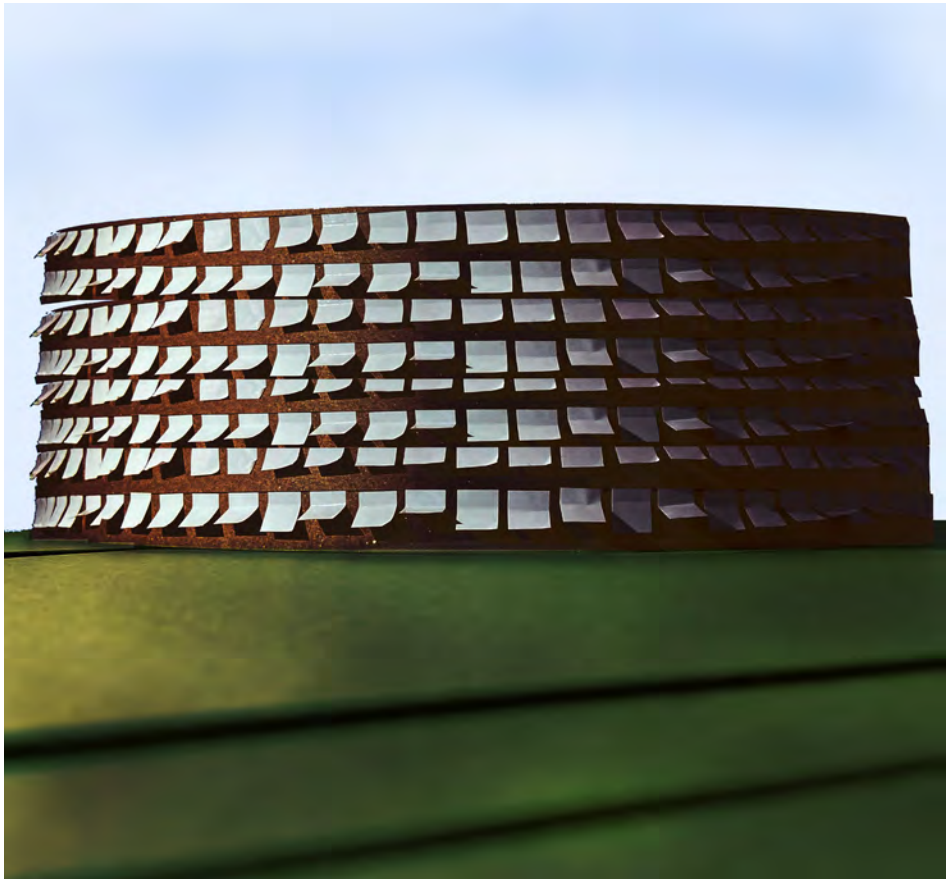
Natural air flow/ventilation

Deflects the sun, no heat gain

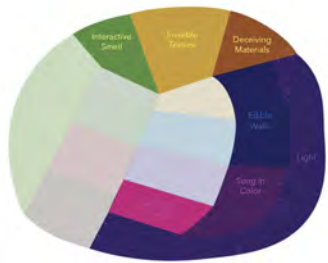
Could be made of 100% recyclable aluminum

Manufactured in the U.S.A.

MODELING



conceptual rooms breakdown



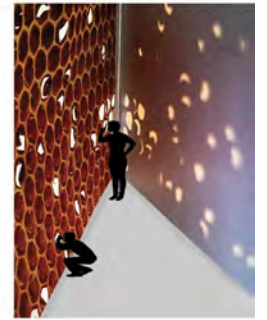
playful light



deceiving materials



interactive small



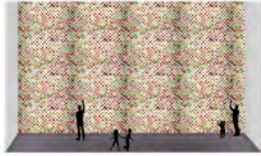
using in color



1 2 3 4 5 6 7 8 9 10
 B A G A B B B
 Ma- ry had a lit- tle lamb
 1 2 3 4 5 6 7 8 9 10
 A A A B D D
 lit- tle lamb lit- tle lamb
 1 2 3 4 5 6 7 8 9 10
 B A G A B B B
 Ma- ry had a lit- tle lamb
 1 2 3 4 5 6 7 8 9 10
 B A A B A G
 lit- tle was white as snow



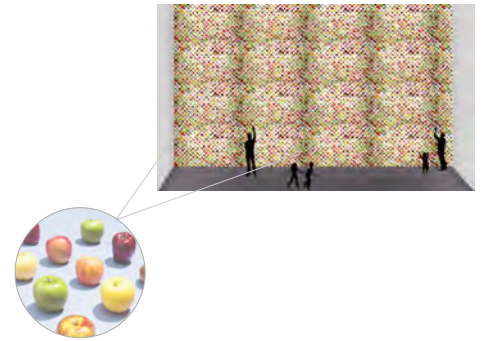
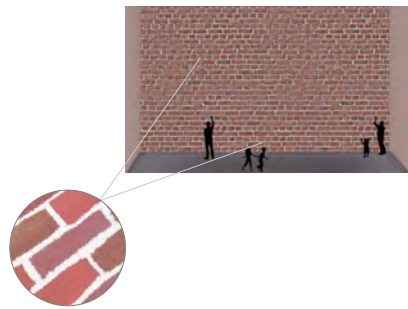
invisible walls



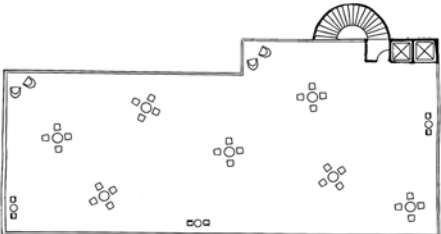
invisible texture



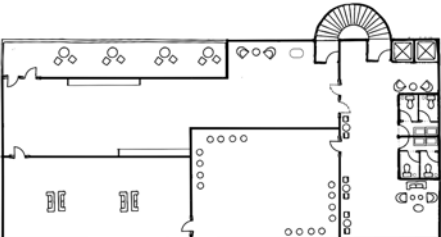
setting in sound



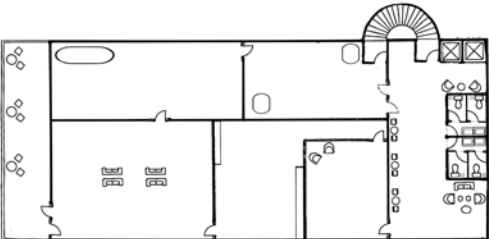
PLANS



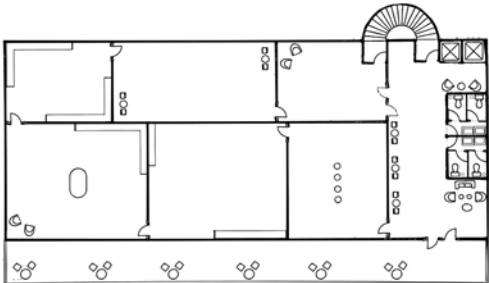
Rooftop



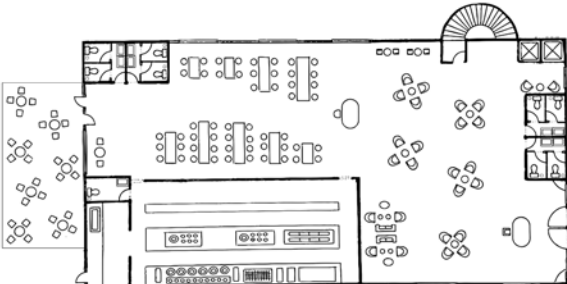
Floor Four



Floor Three

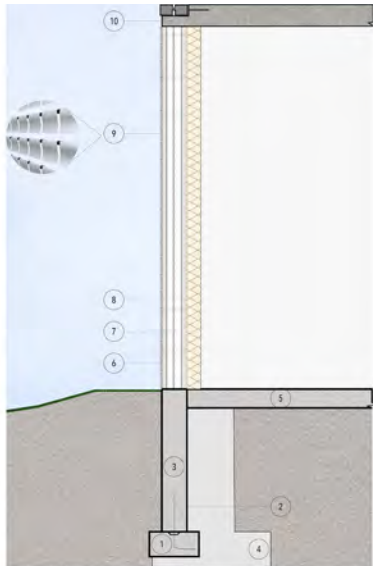
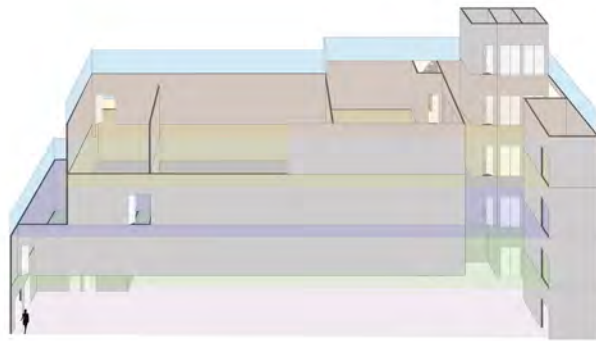


Floor Two



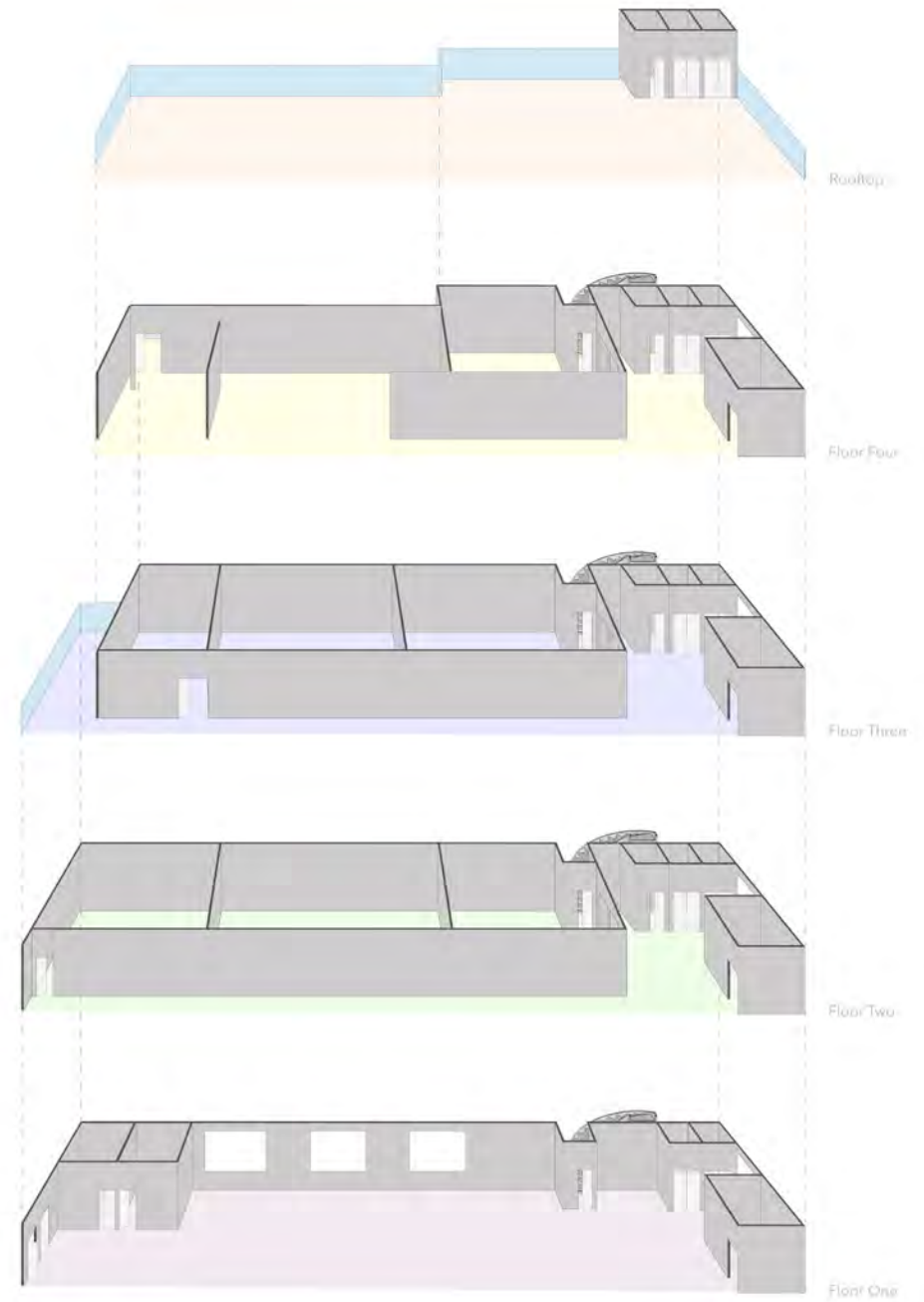
Floor One

SECTIONS



- 1 CONCRETE COVER
- 2 STEEL DOWEL
- 3 CONCRETE FOUNDATION WALL
- 4 COLUMN PIER FOOTING
- 5 CONCRETE SLAB
- 6 EXTERIOR WALL
- 7 ELECTRIC
- 8 INSULATION
- 9 KINETIC FACADE
- 10 FLOOR

1 WALL SECTION
S1 SCALE: 1/2" = 1' - 0"



Rooftop

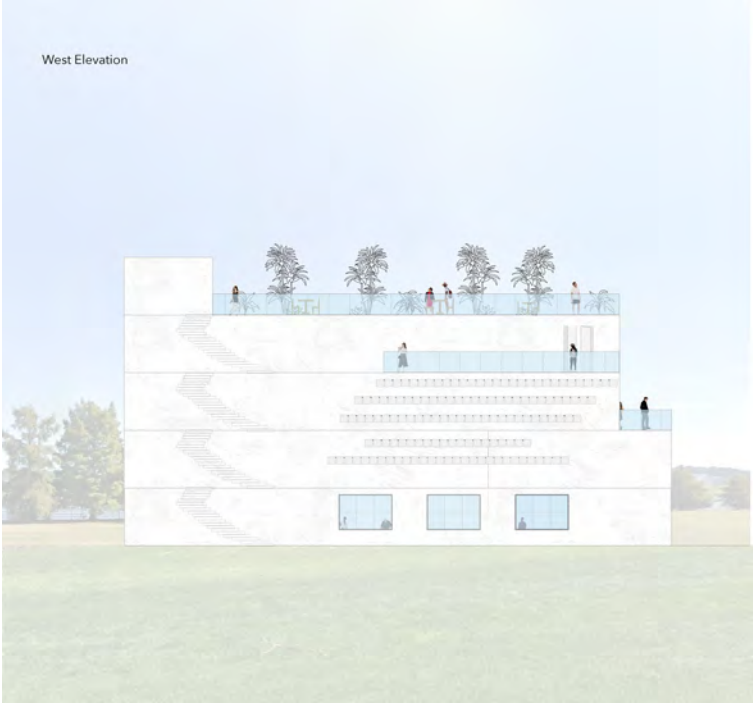
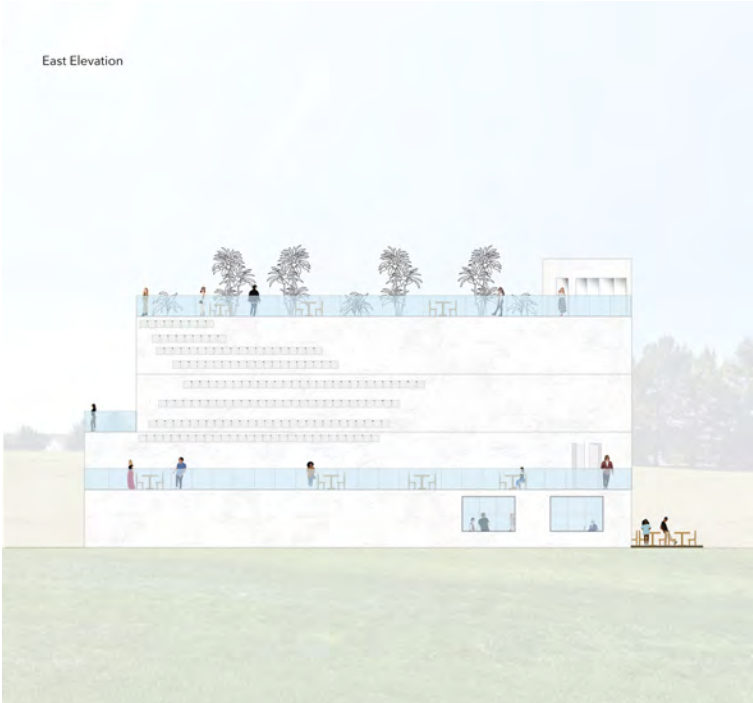
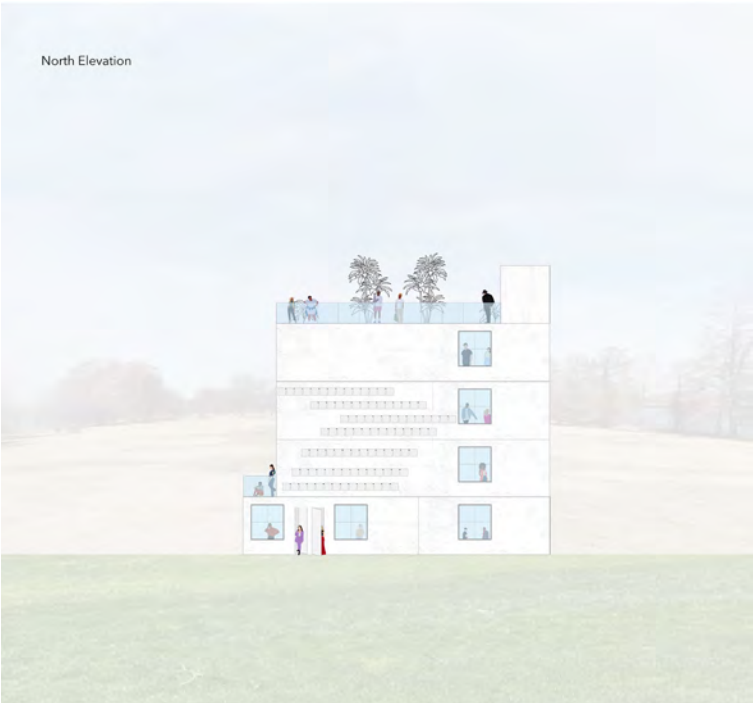
Floor Four

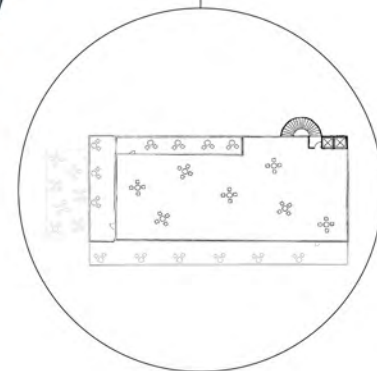
Floor Three

Floor Two

Floor One

ELEVATIONS





DIAGRAMMING

East Elevation View



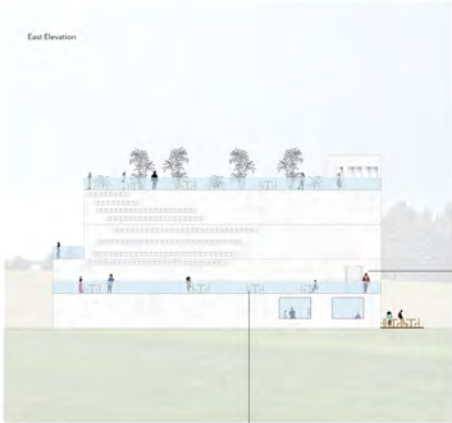
West Elevation View



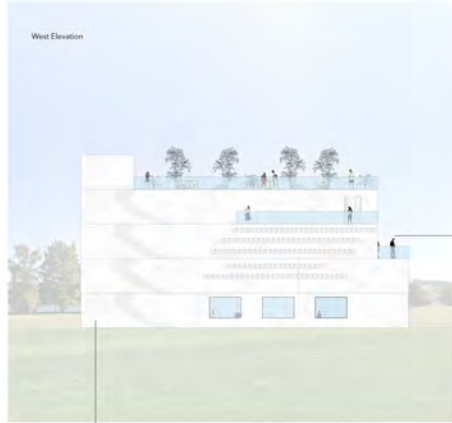
South Elevation View



East Elevation



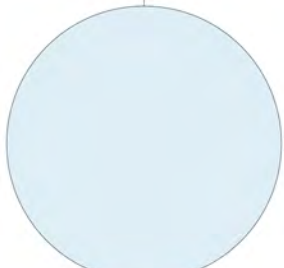
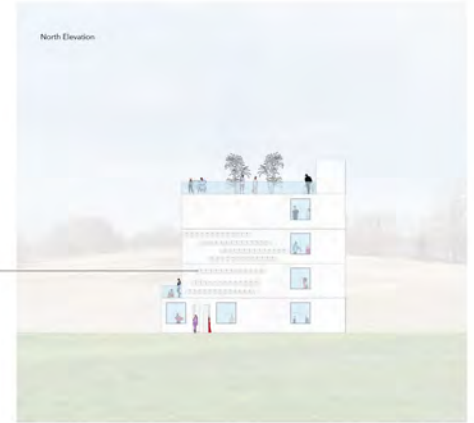
West Elevation



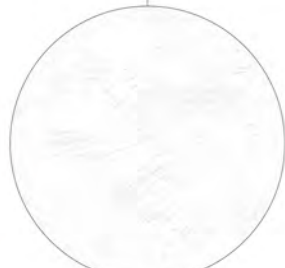
South Elevation



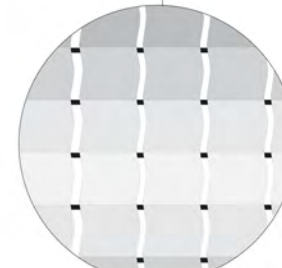
North Elevation



Glass

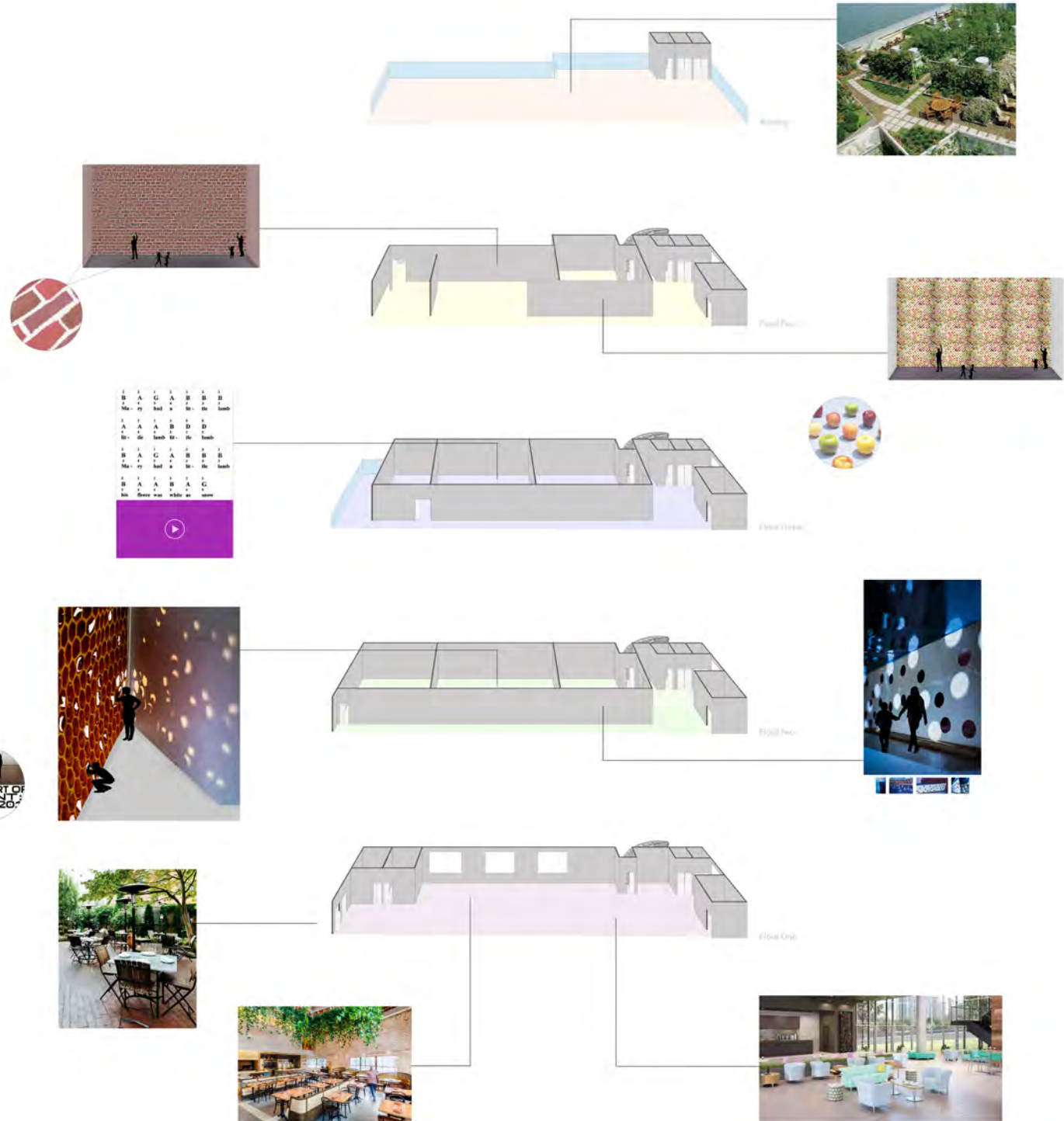


White Concrete



Kinetic Facade - Aluminum Panels

DIAGRAMMING



beginning to model

East View



South View



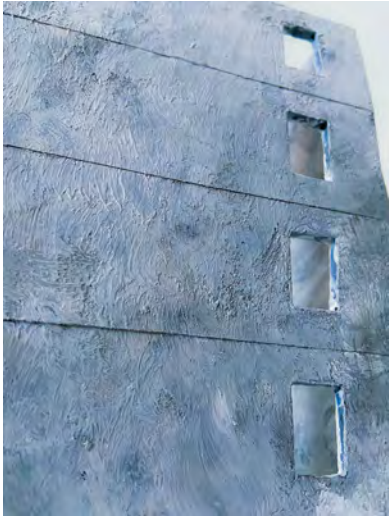
West View



North View



Top View



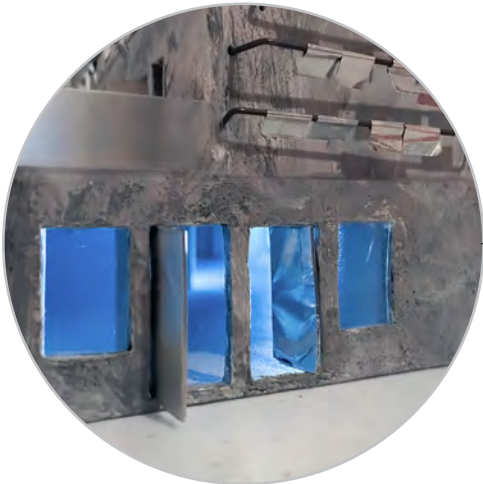
final model



aerial view



ext model details



entrance view



North/East view



South/East view

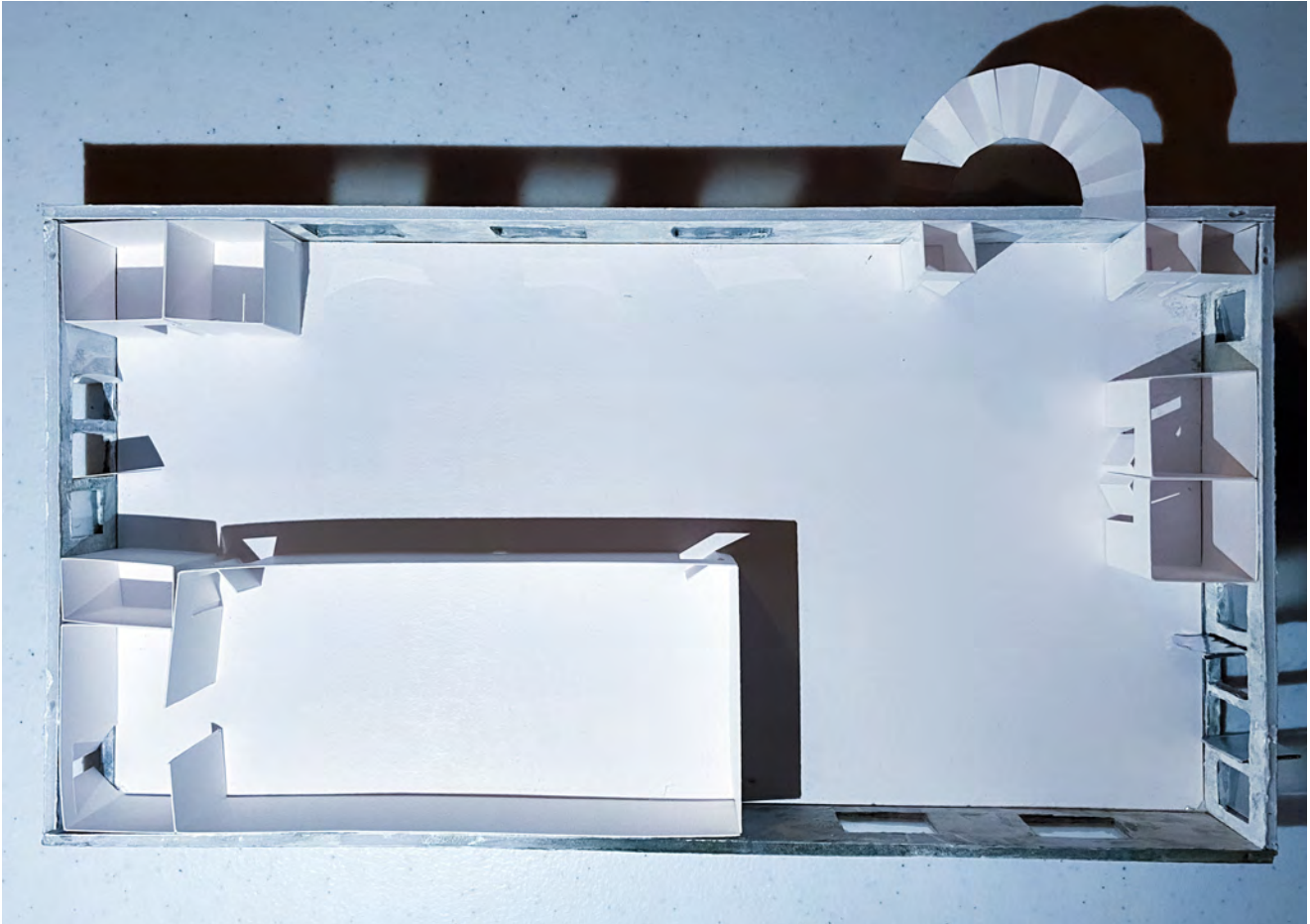
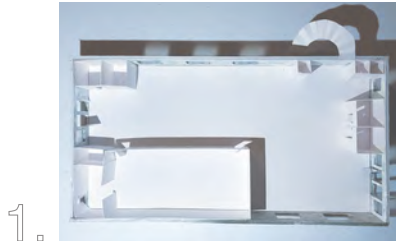


North/West view



South/West view

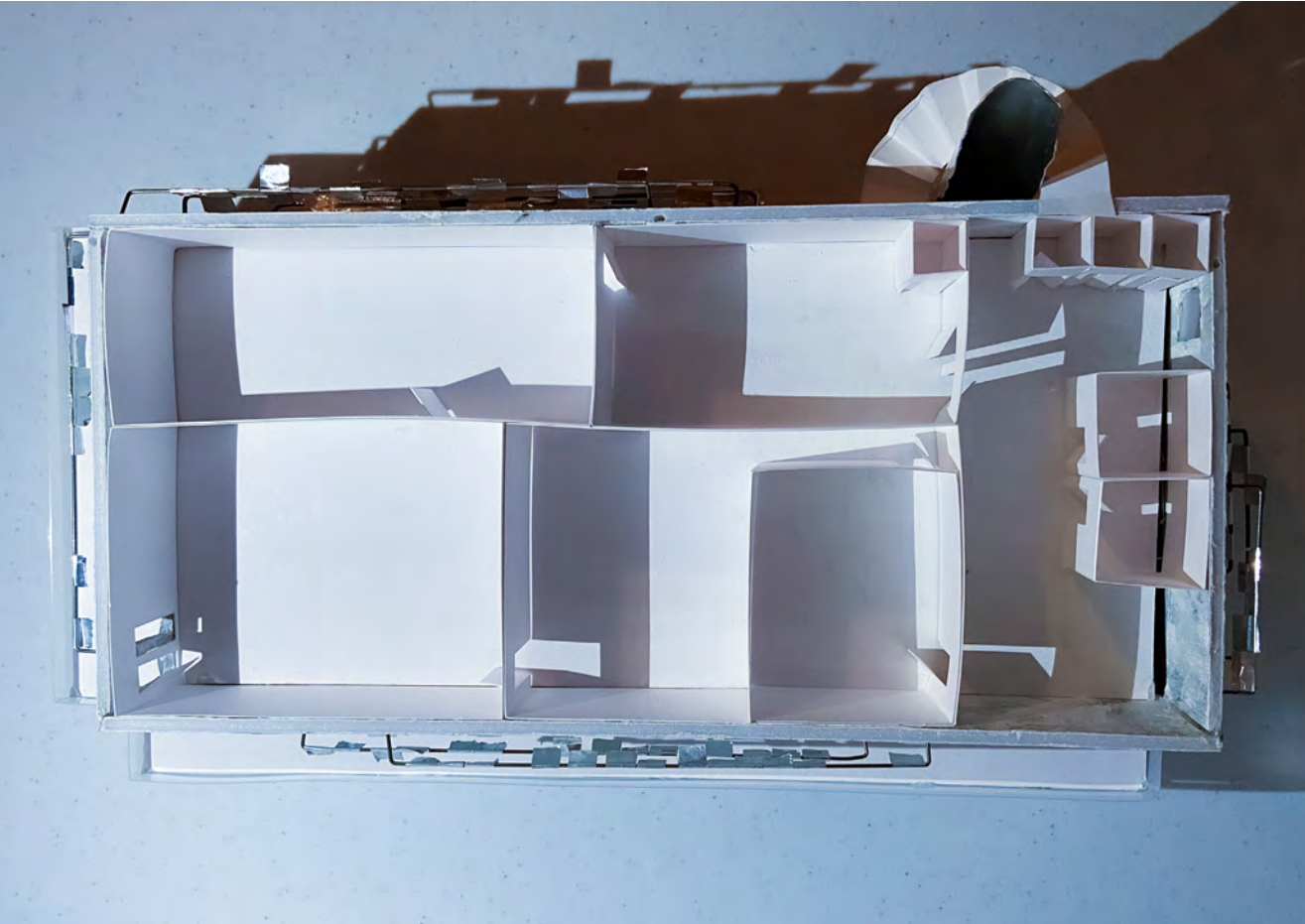
interior model details - floor 1



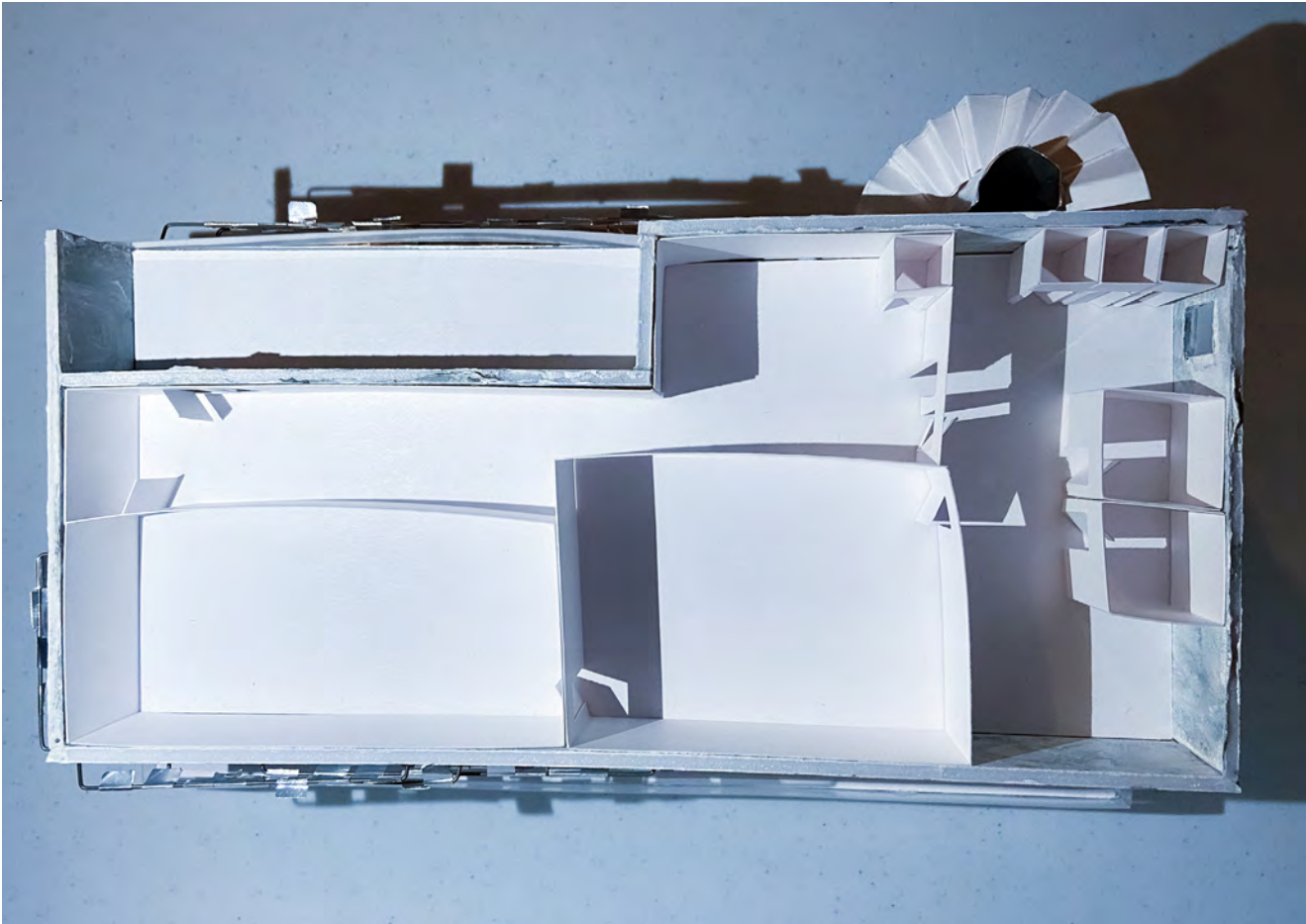
interior model details - floor 2



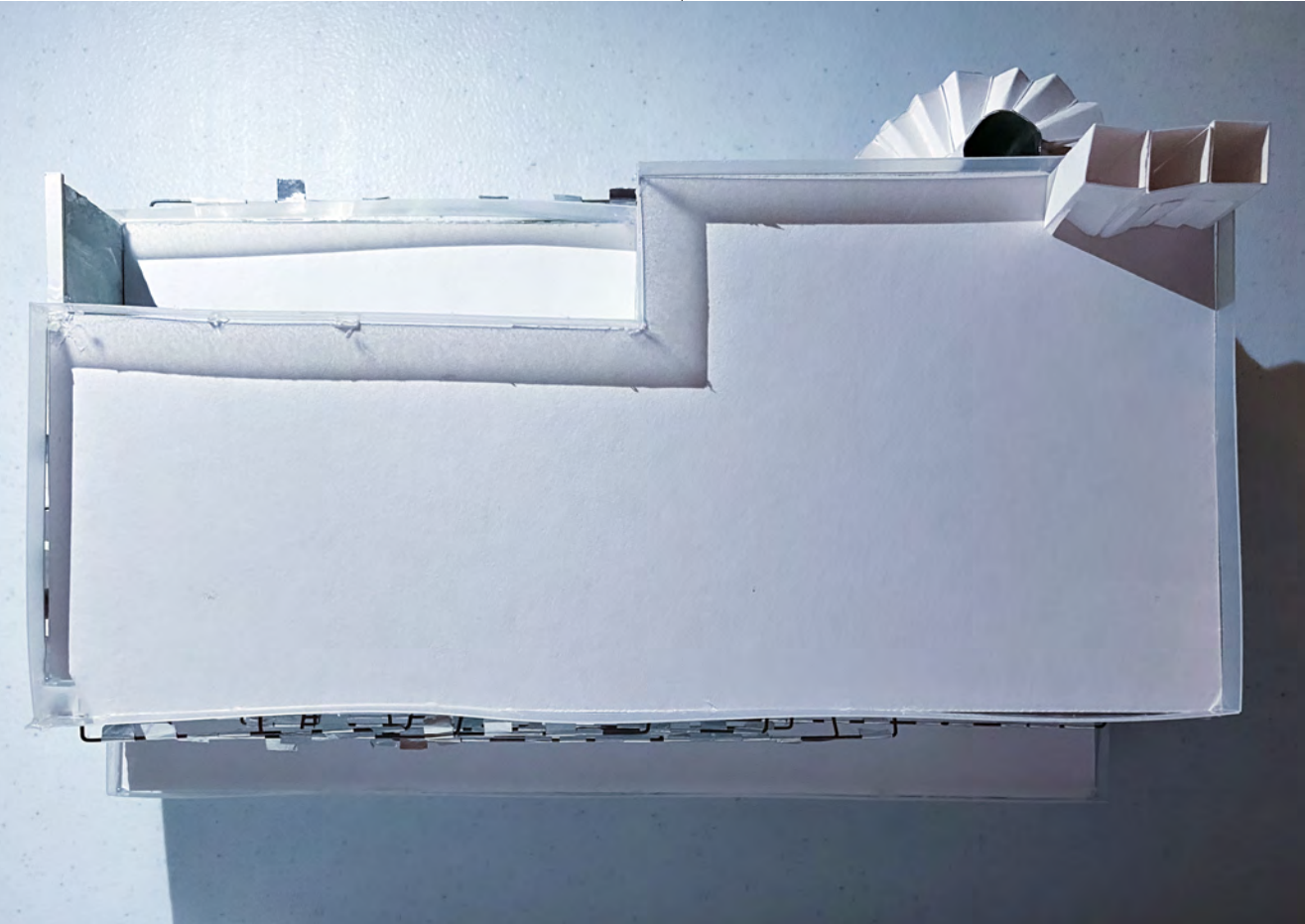
interior model details - floor 3



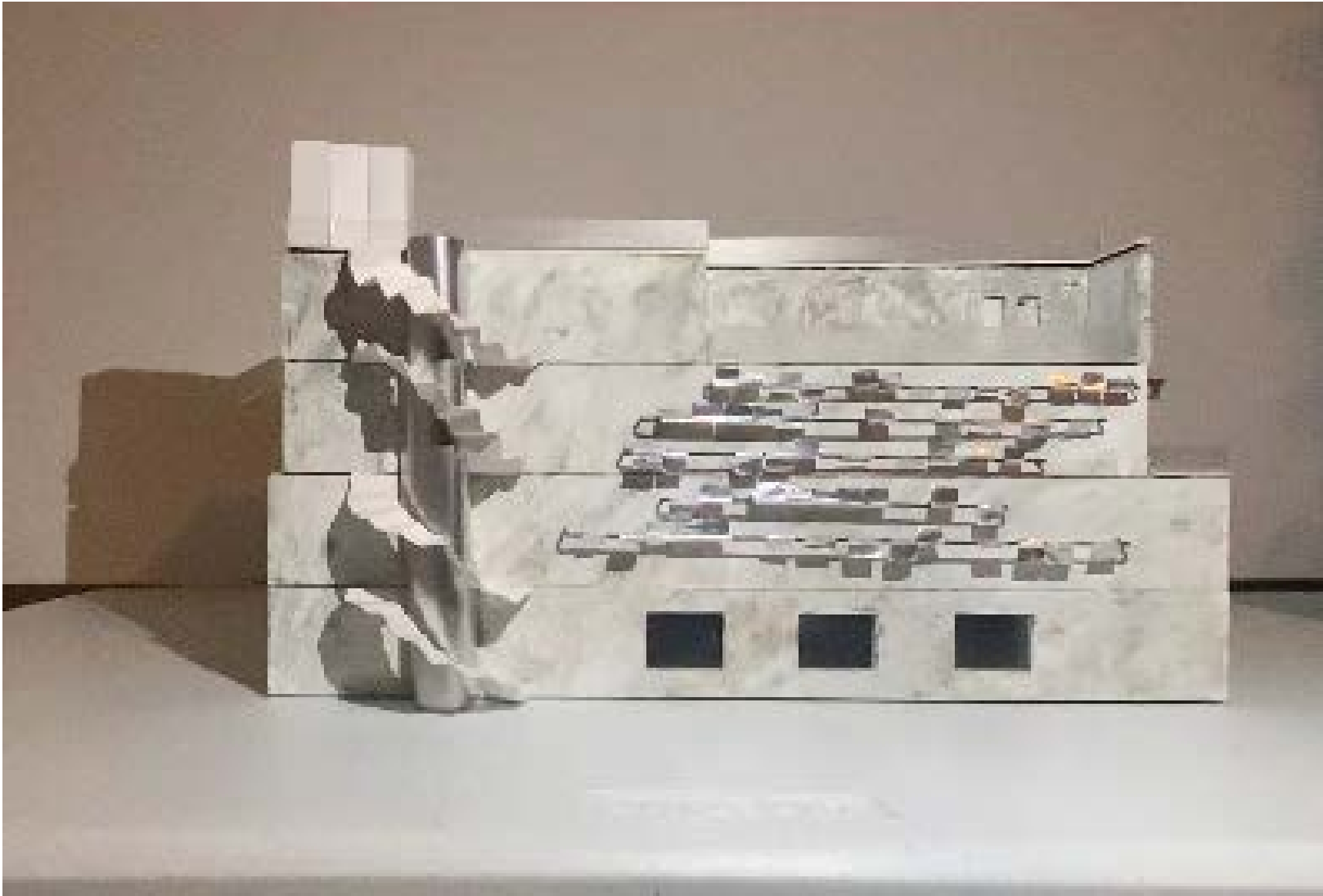
interior model details - floor 4



interior model details - floor 5



kinetic facade in motion



THANK YOU