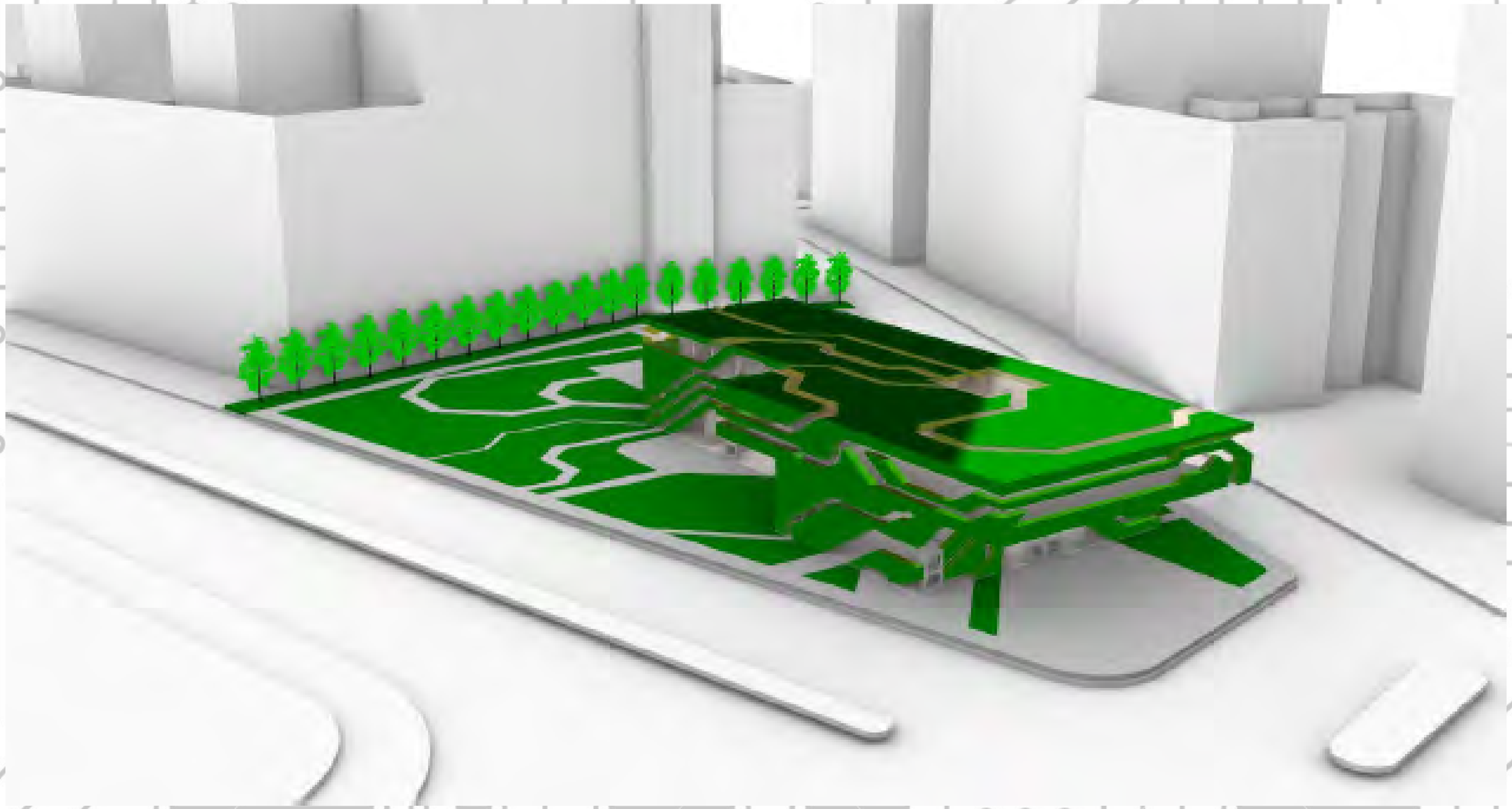
MOTHERBOARD LIBRARY



PRELIMINARY CONCEPT

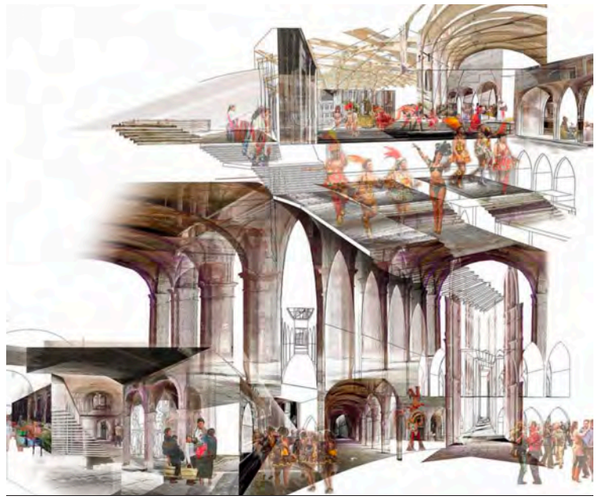
DESIGN NARATIVE

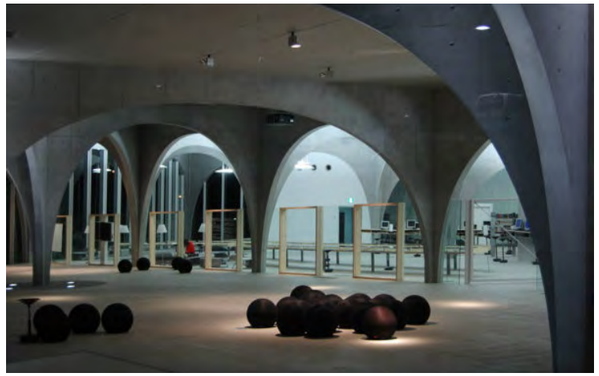
What is the future of the library? To me it's the advancement of technology. Today we no longer rely on just books, in fact majority of the time we utilize the internet for information rather than books. This posses a question, if books are no longer main areas for information the what is the purpose of a library? Does a library even stock physical books in future? Is it a place for only assembly? Is the building just a homage to what was? These ideas pose the question on who we will be designing for.

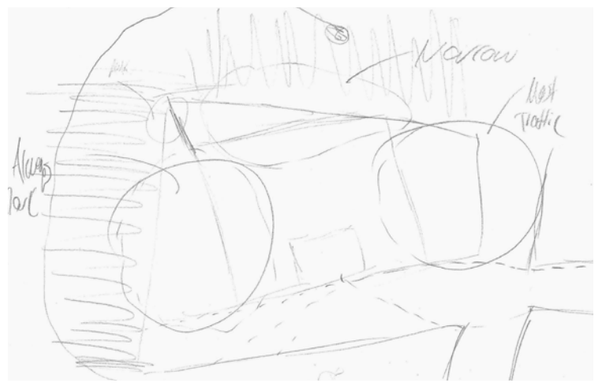
We can either adapt to future creating radical new ideas of what a library is, or we can integrate the old world with the new. These thoughts influenced my design as for I feel its is my job to revive the library for future generations. Majority of library's and public spaces are based off Greek revival styles such as the New York library. So, for the core of the building design features would be based off Greek order. Such features would be proportion, entablature, and columns, approaching structure at corner.

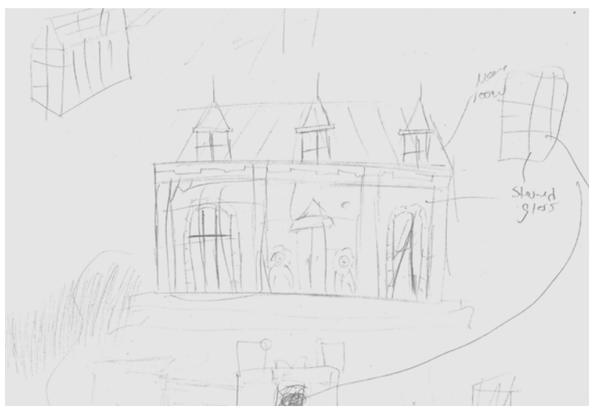
Now I wanted to integrate Greek revival to the future by expressing modern day technologies such as cladding panels, parametric, curtain walls and large window opening like the rose coast house. The rose coast house completely expresses my design intent. Keeping key features of the old and updating with new. This idea seriated into the interior. The concept for use of arches was inspired by Toyo-Ito's Tama Art university Library.

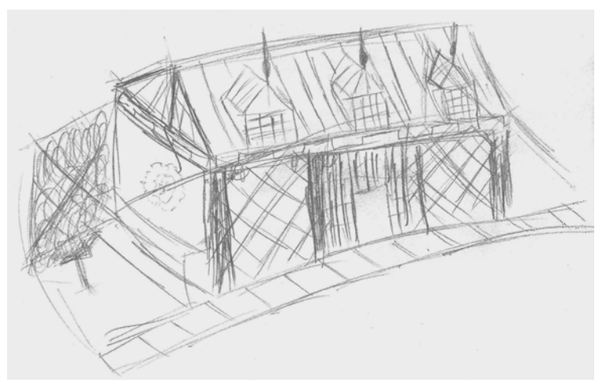
The site itself does not get too much sunlight. South elevation is blocked by a tower, only true sunlight is achieved from east and partially west elevation. The area itself thrives with people from neighboring schools and parks. In addition, it is not too far from Dumbo, so it makes it a potential tourist attraction.





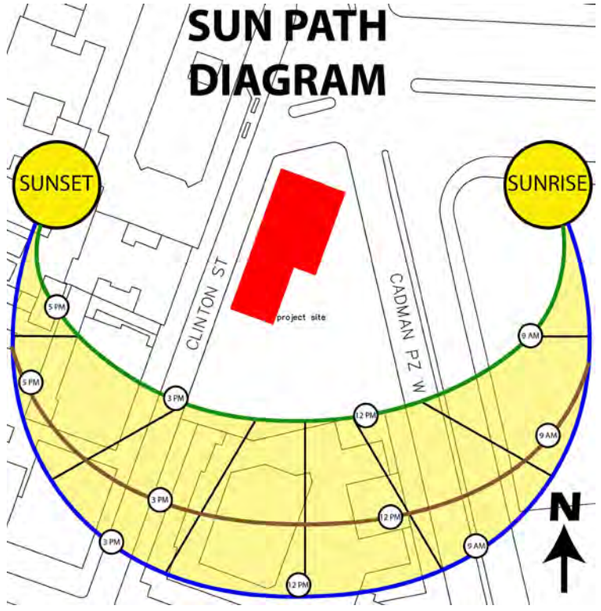






SITE ANALYSIS

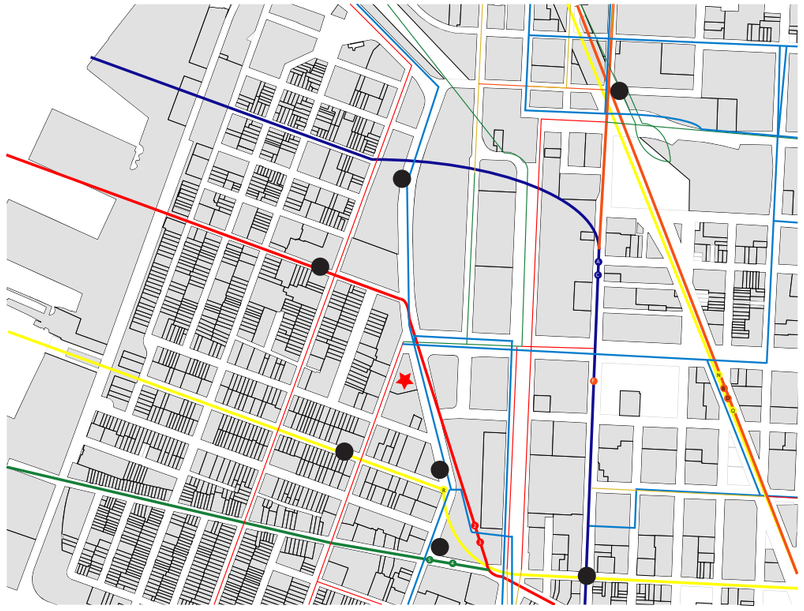
SUN PATH



KEY
- SUMMER SOLSTICE
- WINTER SOLSTICE
- EQUINOX
- ANNUAL VARIATION
- SITE

From this map we can gather how sun will interact with the structure. If we look at this in 3D and factor surrounding building heights, we can infer majority of sunlight will enter from above and east elevations..

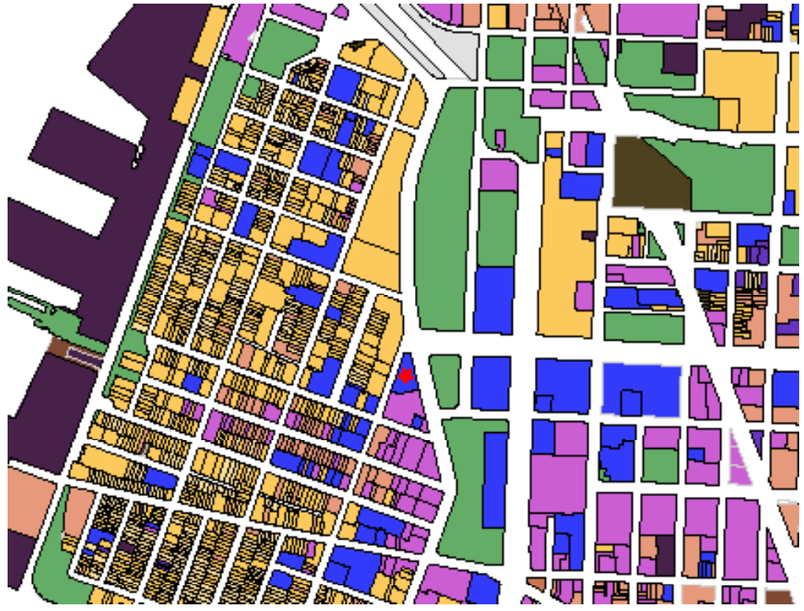
TRANSPORTATION



Map key
- Site
- Bus route
- NYC subway routes
- NYC bike routes
- Train Stations

This map represents forms of public transportation around the site. From this data we can see there are many means of people reaching the site from various trains, busses, and even on bicycles.

Land Use



Map key
- Site
- 1 & 2 Family Residential
- Multi-Family Residential
- Mixed Use
- Open Space
- Commercial
- Institutions
- Industrial
- Transportation
- Vacant Lots

With this map we can interpret surrounding areas and how the structure can possibly interact with the community. The site is surrounded mostly by multi family residential houses. Additionally another pro to the site is that parks and open spaces are relitivly close.

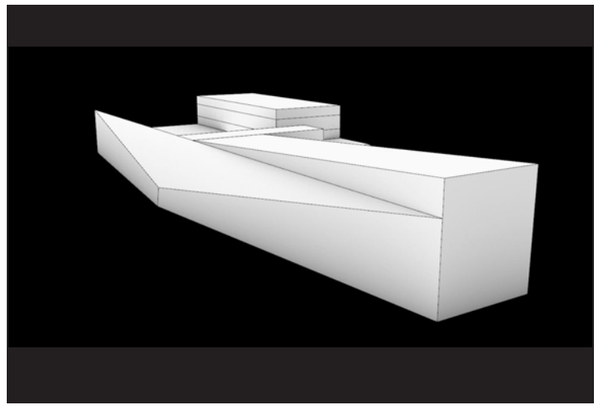
CONCEPT MODELS

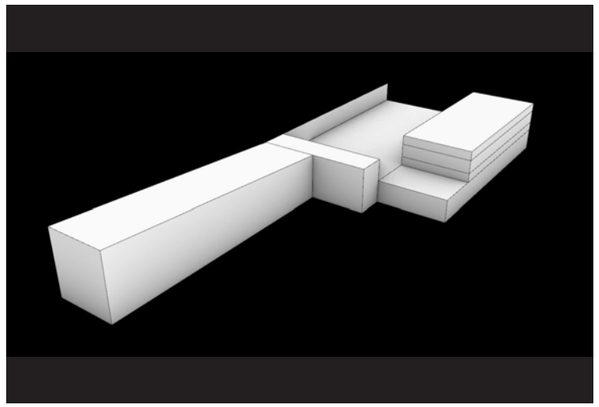
Mass
With this model the design process was un-planned. I used scarp pieces of foam and played with massing toind a unique form.

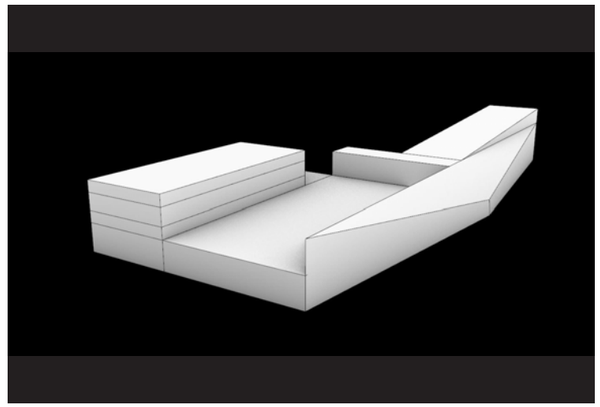
Curves
In this model I wantedo create a flud like structure.. After cuting curves on side it was still felt unfinished. To further develop i had pitched the roof from one corner to another.

Circuts
This model was inspired by a circut board. I started by cutting out a square in the center to sybolize proccesor unit. From there i cret-ed circuits to wrap around the cube. Lastly i played with lighting iluminating from the inside to provide the model with a futruistic energy.

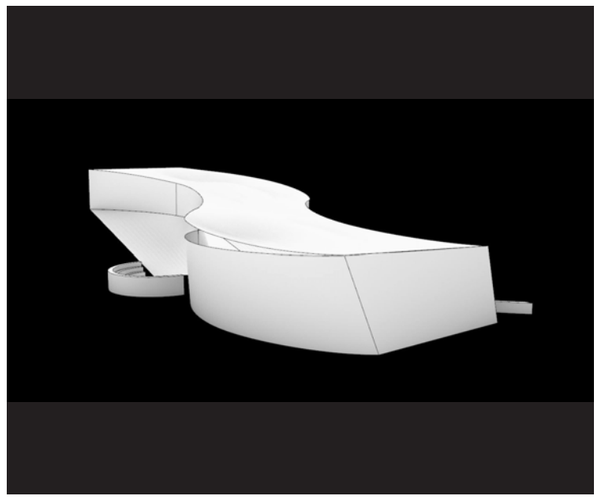
3D CONCEPT MODELS

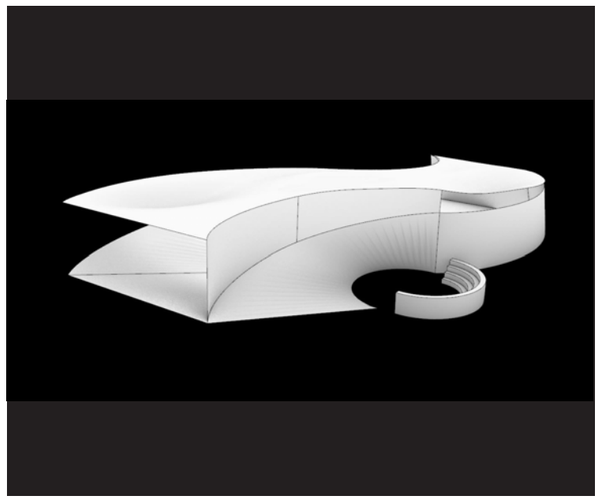


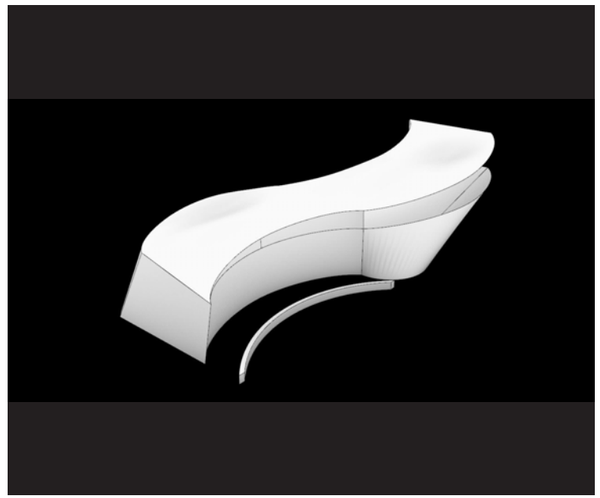




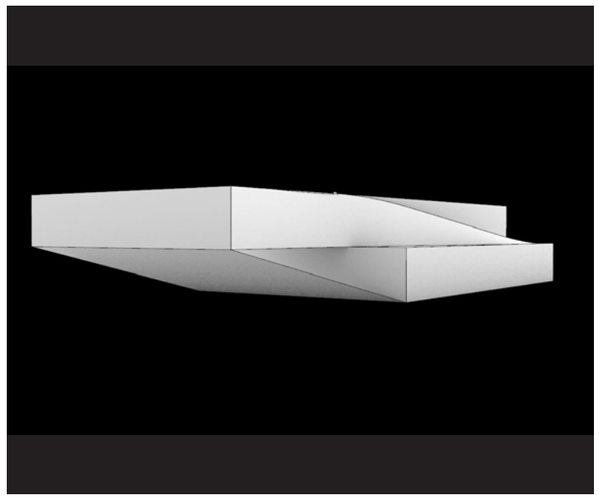
Mass
This model was derived from physical concept models. After replicating the physical model into rhino, I had played with the vertexs to create exagerated forms.

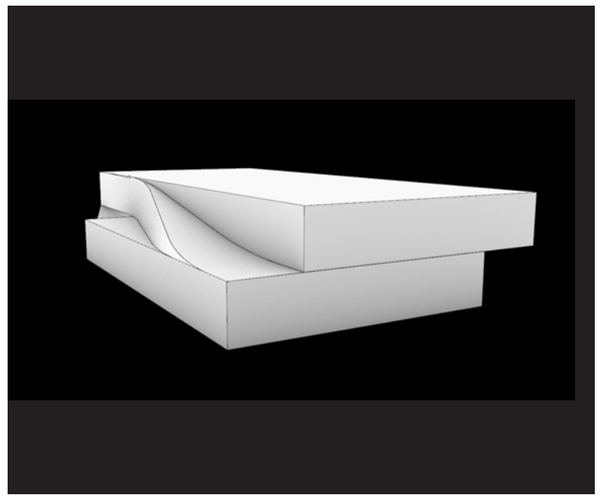




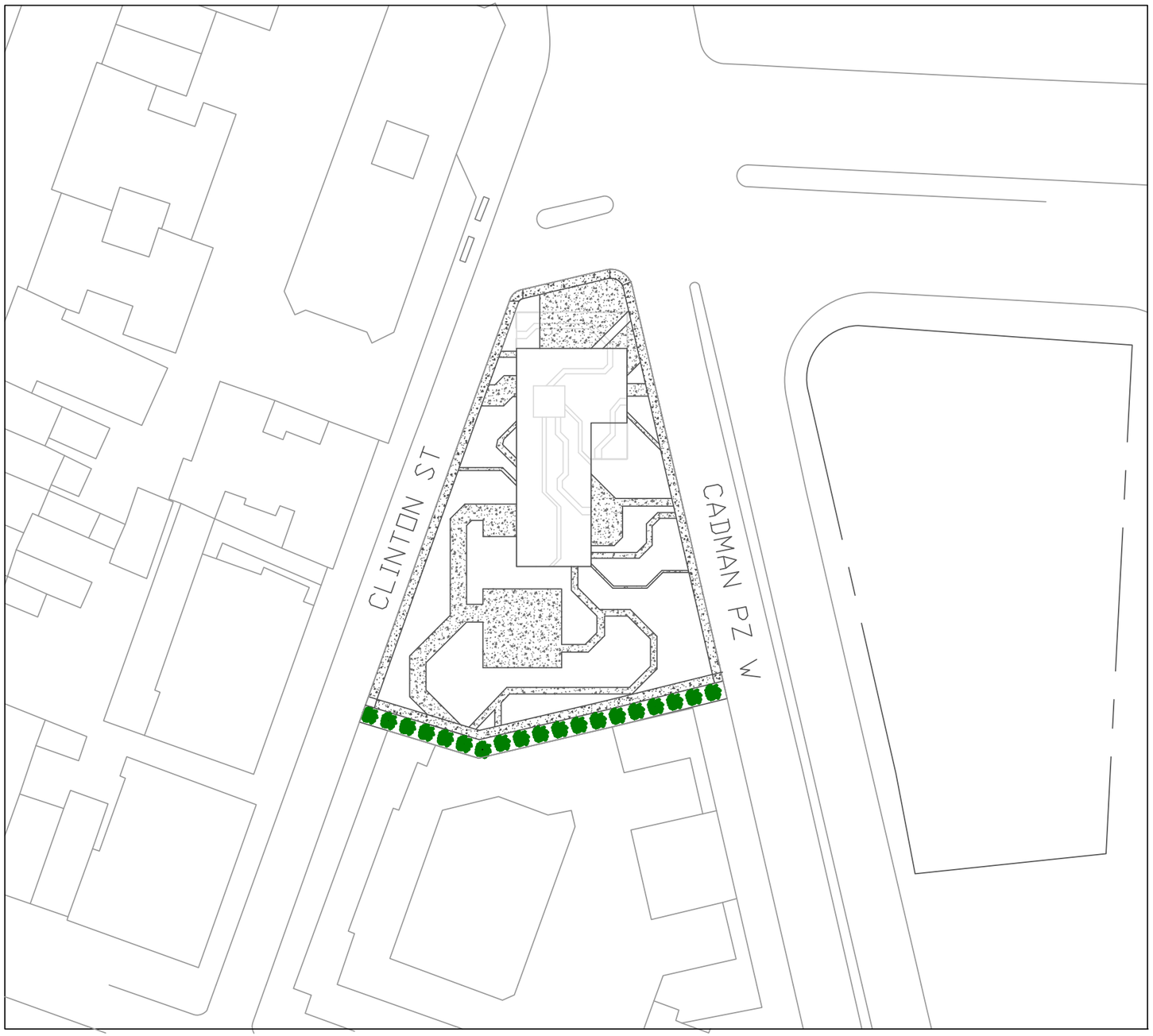


Curves
In this model I wanted to challenge myself to see if i can make curvey forms. This model has a strong sense of a fluid linear flow. Additionally it gives a sense or intimidation.

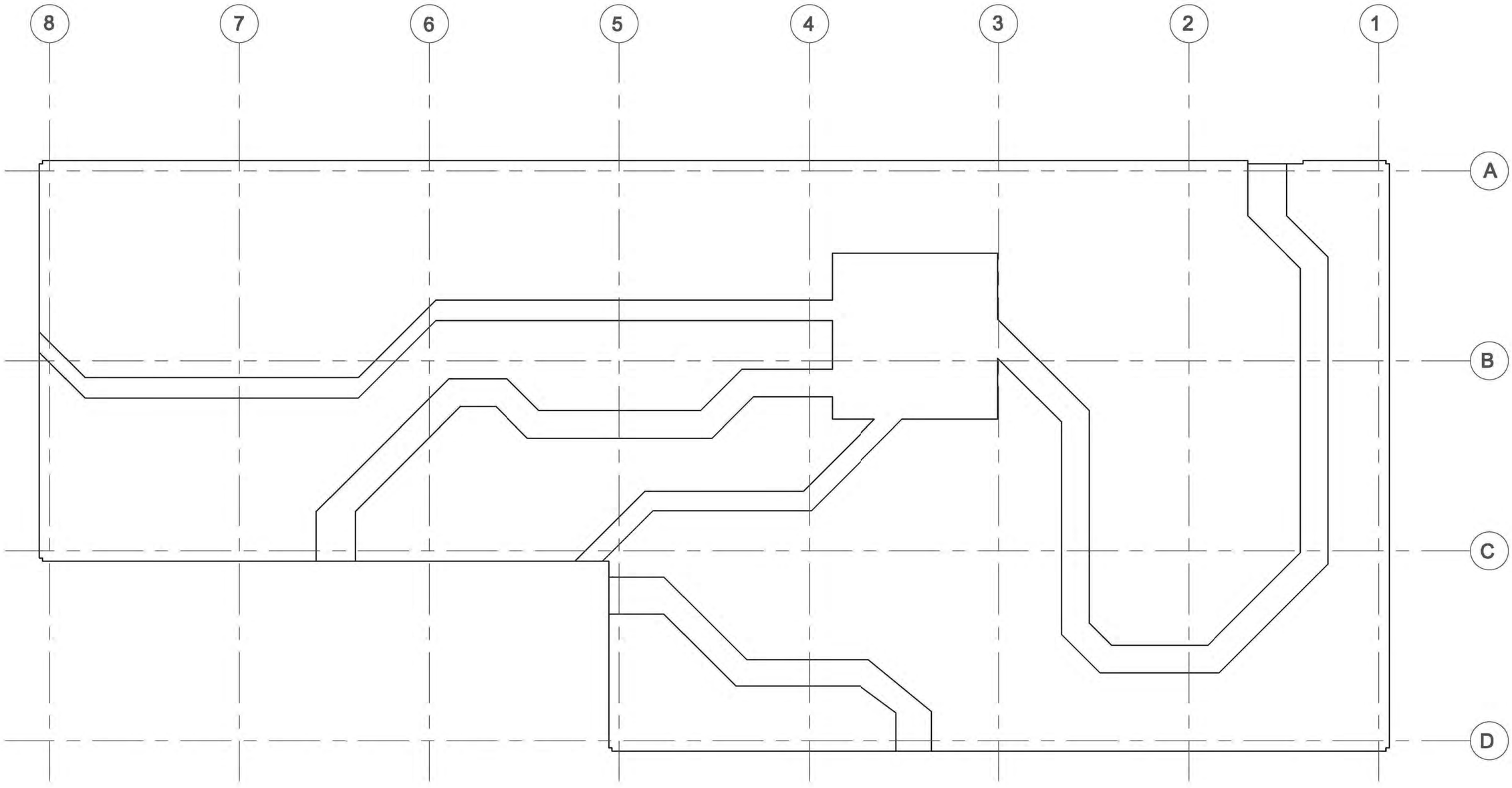




Function
This model was dervied from massing created from floor plans. This model was used to see if an expression can be created by manipulating levels.

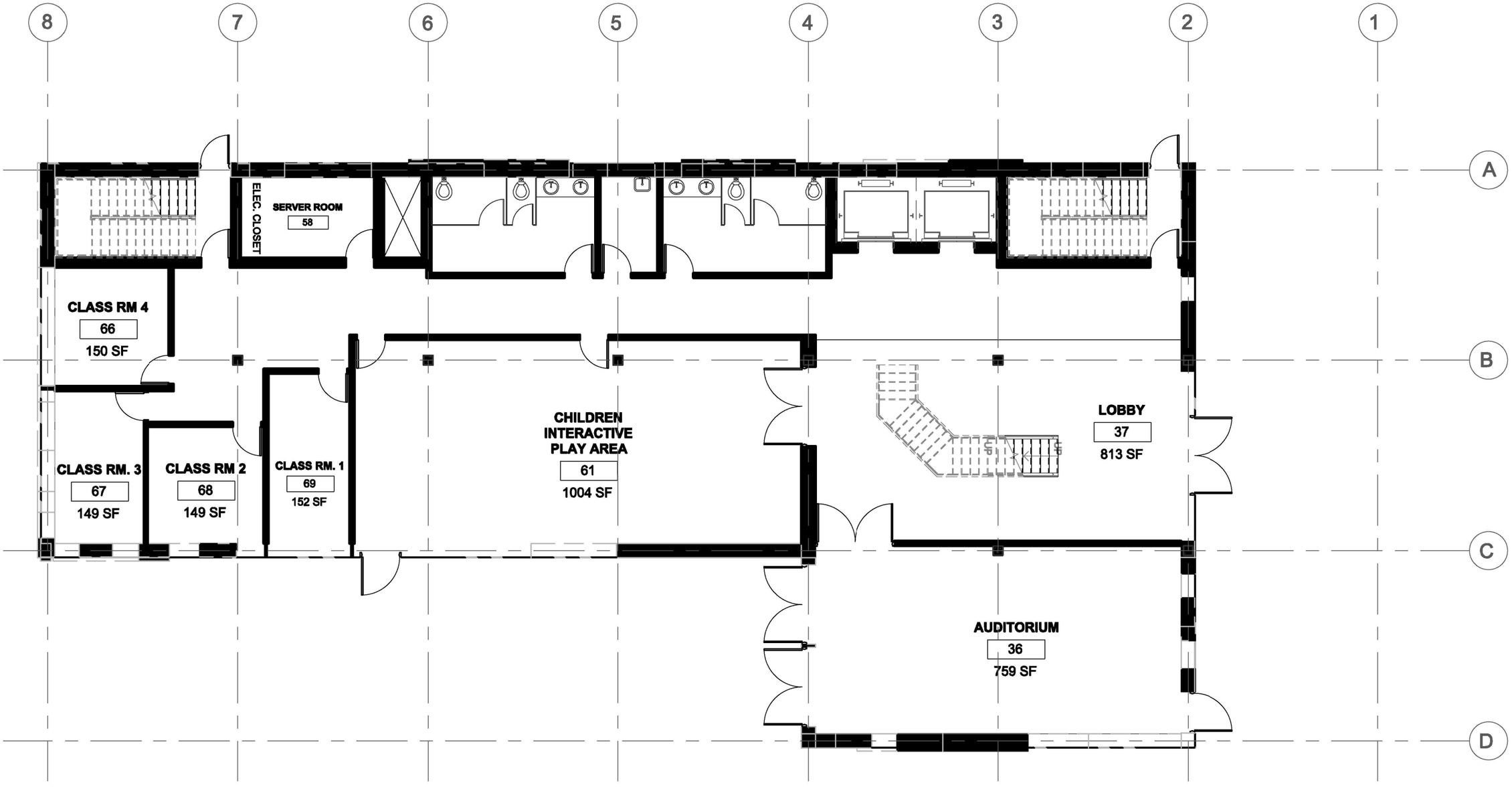


SITE PLAN
SCALE: 1/64"=1'-0"



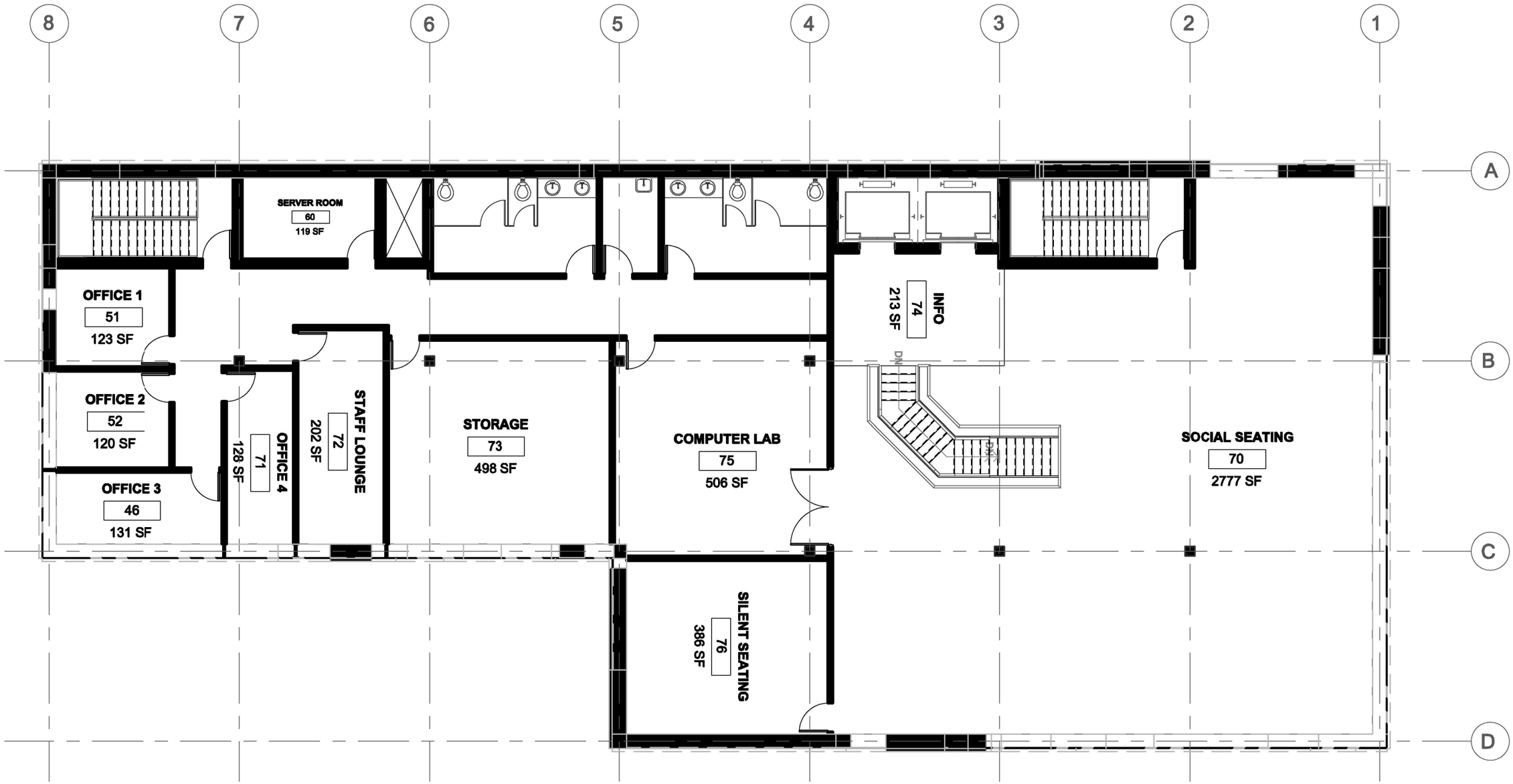
ROOF PLAN

SCALE: $\frac{3}{32}$"-1'-0"



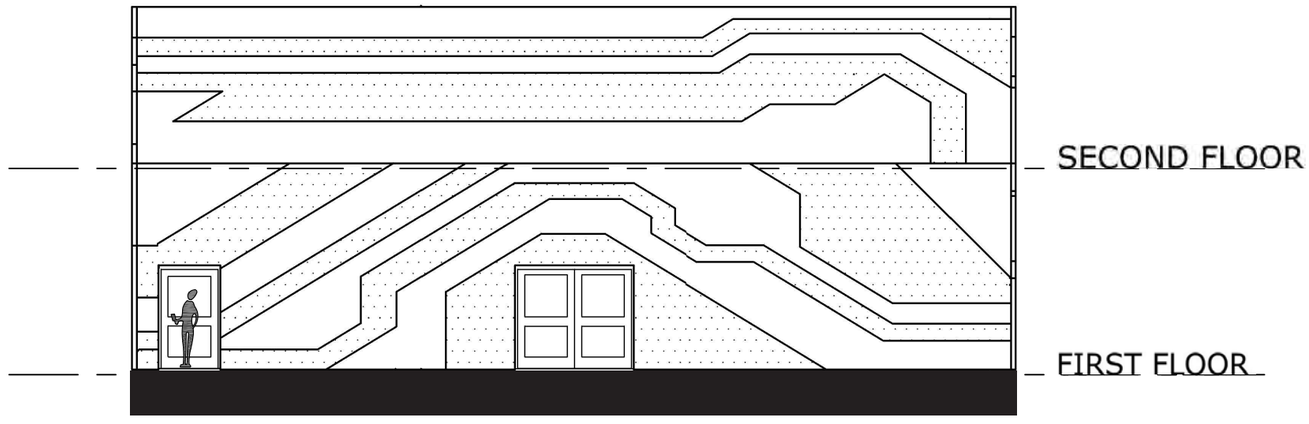
FIRST FLOOR PLAN

SCALE: $\frac{3}{32}$"-1'-0"

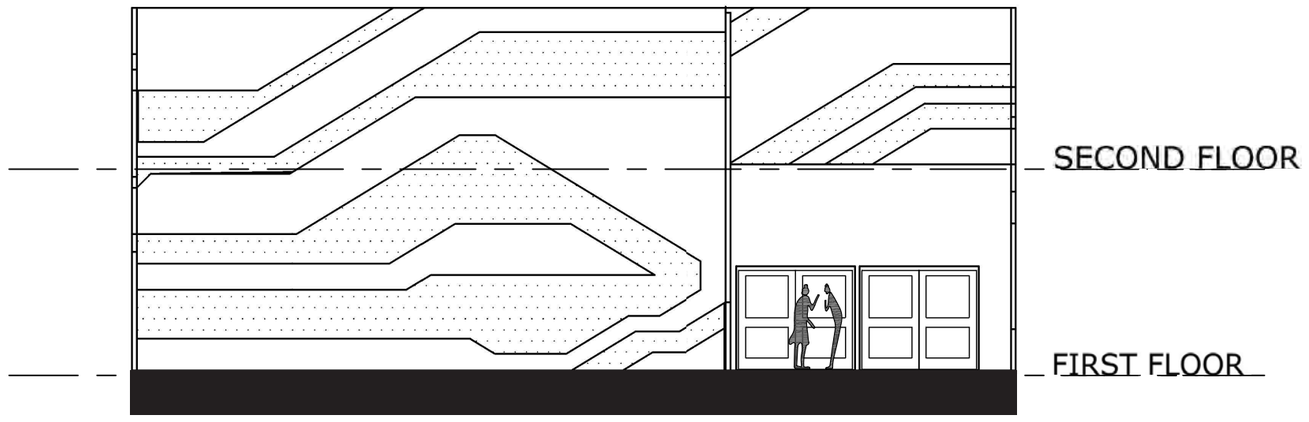


SECOND FLOOR PLAN

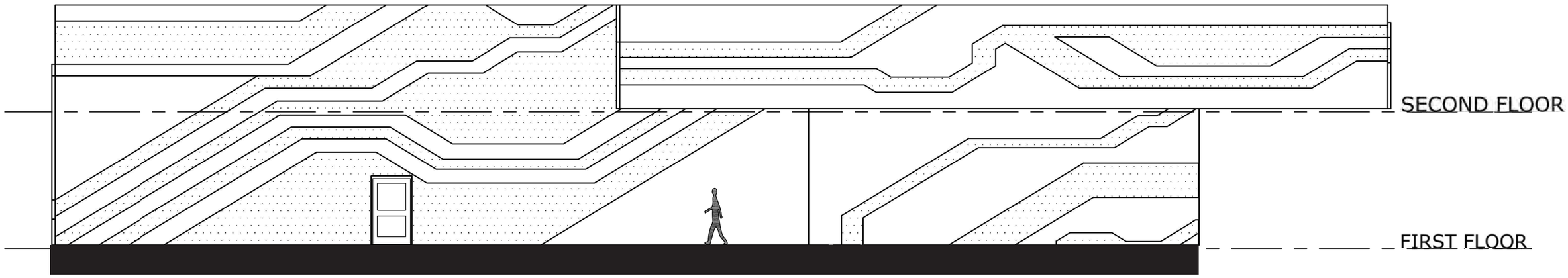
SCALE: 3/32"-1'-0"



1 EAST ELEVATION
SCALE: 3/32"-1'-0"

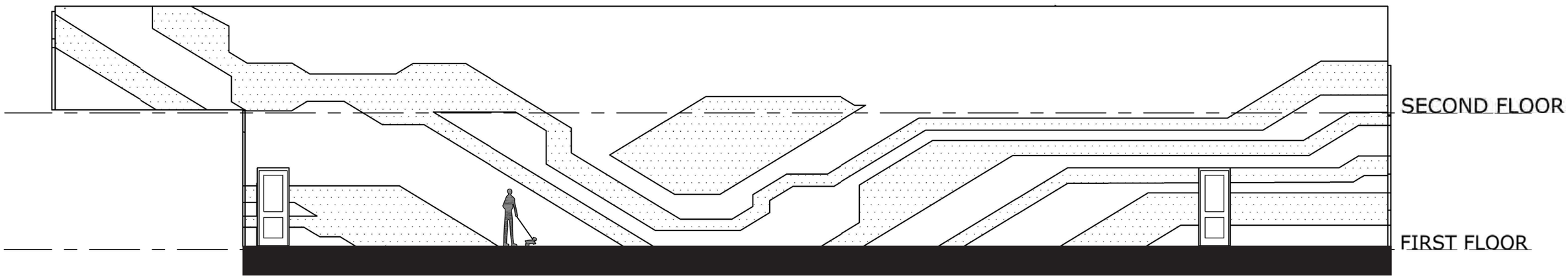


3 WEST ELEVATION
SCALE: 3/32"-1'-0"



2 EAST ELEVATION

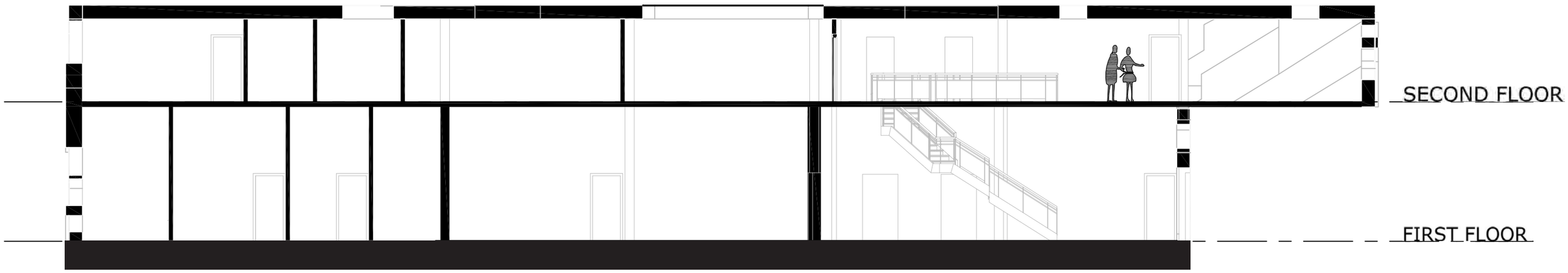
SCALE: 3/32"-1'-0"



4 WEST ELEVATION

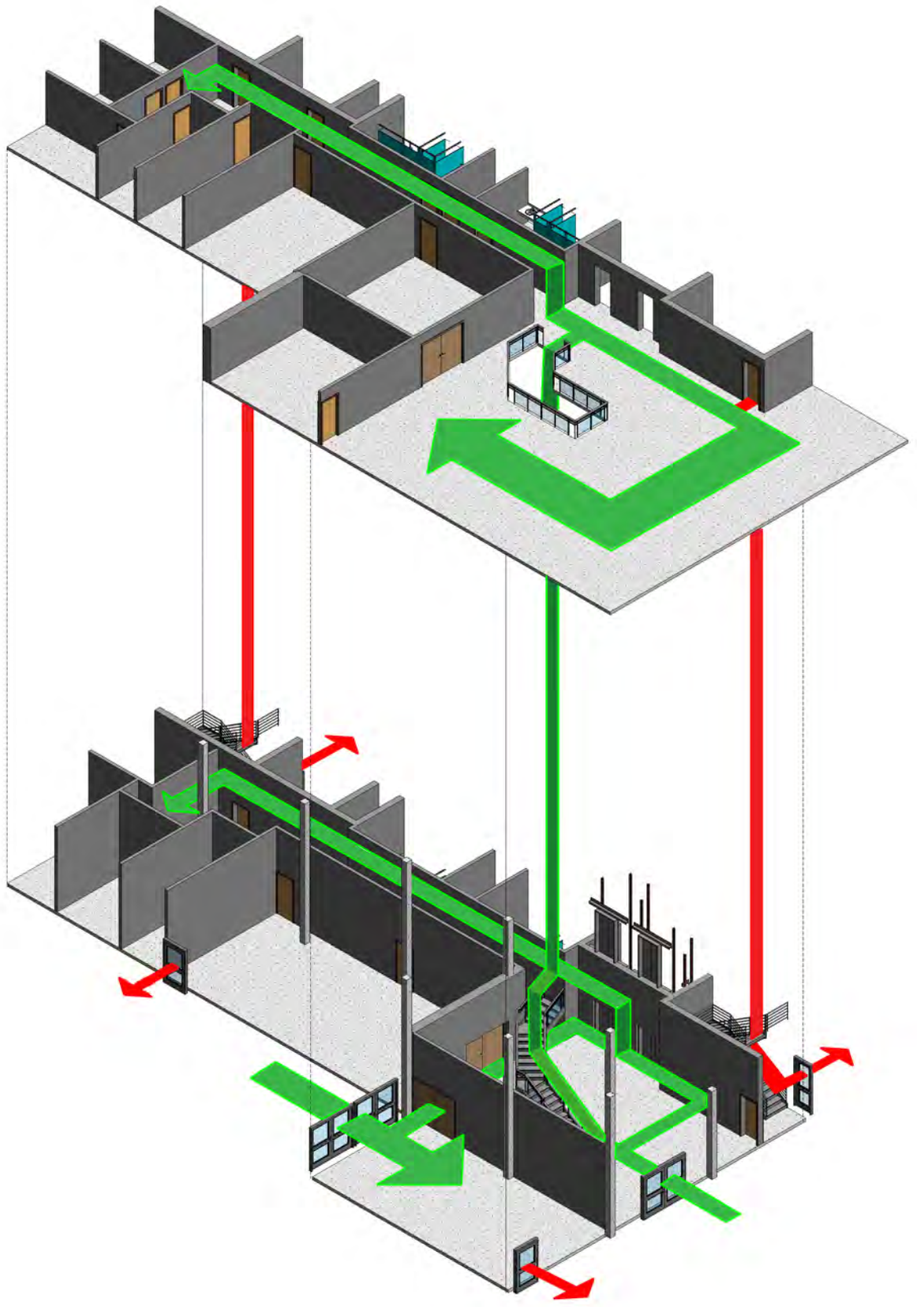
SCALE: 3/32"-1'-0"

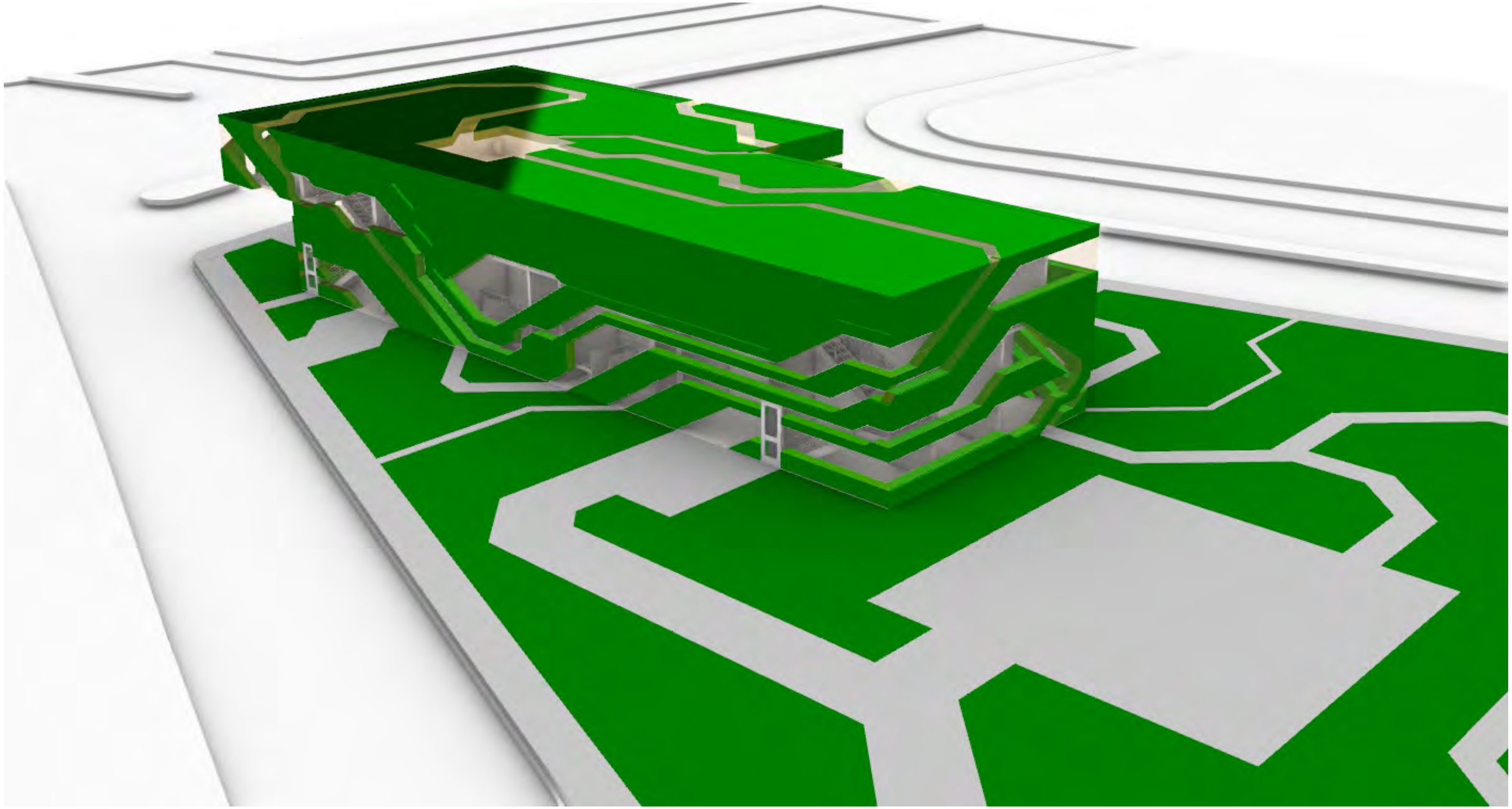
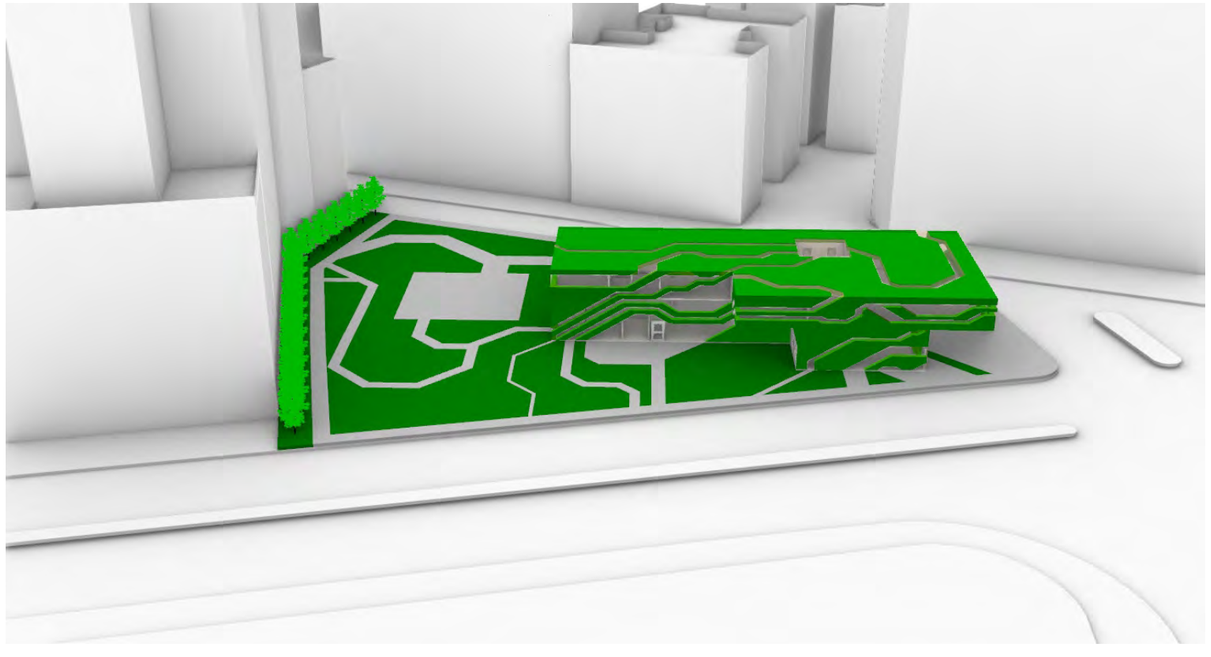
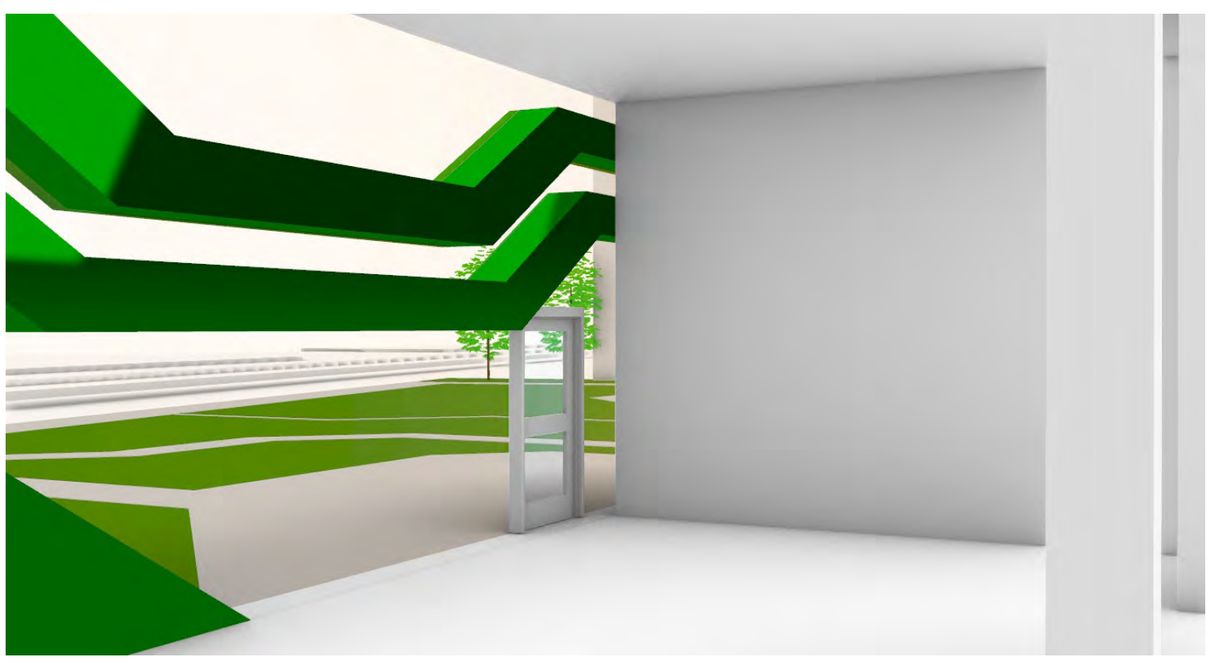
1 SHORT SECTION
SCALE: 3/32"-1'-0"



2 LONG SECTION
SCALE: 3/32"-1'-0"

CIRCULATION DIAGRAM



The green arrows represent regular circulation through out the building. The red represents exit paths incase of emergency. Majority of circulation will happen around the lobby. From there occupants will branch off to specific areas.

RENDERS