SOL ACADEMY

Sustainable Open Learning Academy

Hillside High School: Scarlett Bermudez, Micah Hemingway, Mikal Ali

Early College High School: Emily Mejia, Eva Perez , Ariel Green, Yasmin Sanchez, Michelle Guerrero, Amya Ingram, Jamil Ali

OUR TEAM

Emily Mejia

Early College
Junior

Eva Perez

Early College
Junior

Ariel Green

Early College
Junior

OUR TEAM

Yasmin Sanchez

Early College
Junior

Michelle Guerrero

Early College
Junior

Amya Ingram

Early College
Sophomore

OUR TEAM

Jamil Ali

Early College
Sophomore

Scarlett Bermudez

Hillside High School
Junior

Micah Hemingway

Hillside High School
Sophomore

OUR TEAM

Mikal Ali

Hillside High School
Senior

DESIGN PROCESS

DEFINE THE PROBLEM

Rigorous Research
Looked at OOY &
District Data

EXPLORE IDEAS

Sketching
Brainstorming

APPLY A SOLUTION

3D Modeling

LOOK BACK AND LEARN

Present & Make
Improvements

TIMELINE

STAGE 1
Research
Interviews & Review of Data

STAGE 2
Ideation
Brainstorming Sessions
Sketching

STAGE 3
3D CAD Modeling

STAGE 4
3D Lego Modeling

STAGE 5
Make Improvement & Present Ideas

Priority 2: Provide a Safe School Environment that Supports the Whole Child

Goal 2A: By 2023, 100 percent of Durham Public Schools will implement research-based cultural frameworks to support the social-emotional health and safety of students and staff.

Baseline Data

2017-18 baseline data indicate that 25 percent of schools (13 of 52) have identified and implemented a research-based cultural framework with fidelity.

Benchmarks

- **2018-19:** 35 percent of schools (18 of 52) will identify and implement a research-based cultural framework with fidelity.
- **2019-20:** 50 percent of schools (26 of 52) will identify and implement a research-based cultural framework with fidelity.
- **2020-21:** 64 percent of schools (33 of 52) will identify and implement a research-based cultural framework with fidelity.

OUR MAIN GOALS

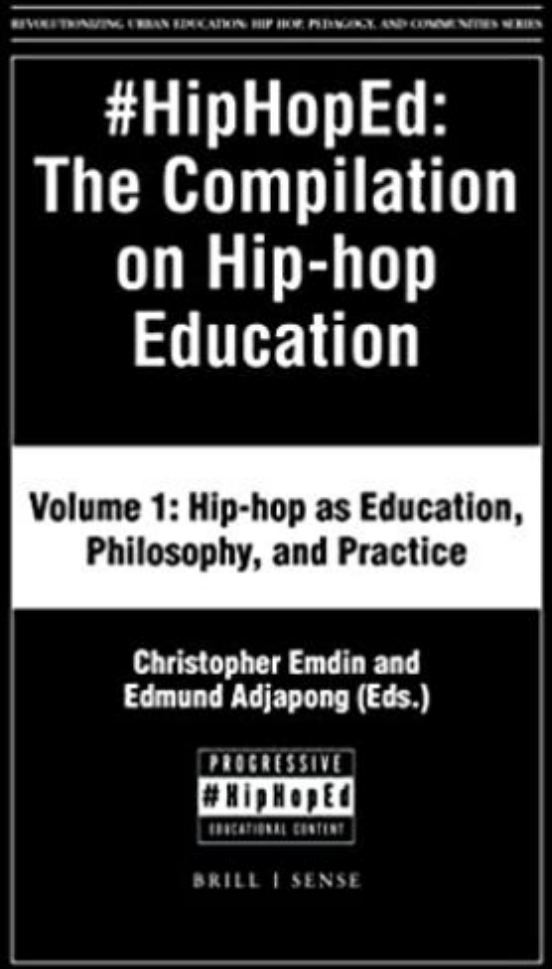
At SOL Academy we aim to:

- Sustain the culture of students
- Sustain the social-emotional health and safety of students

WE WILL DO THIS BY:

A mind, body, soul approach to education

- Creating an ecosystem within our school environment.
- Centering the healing of our students within our pedagogy and built environment
- Using Hip Hop as a framework

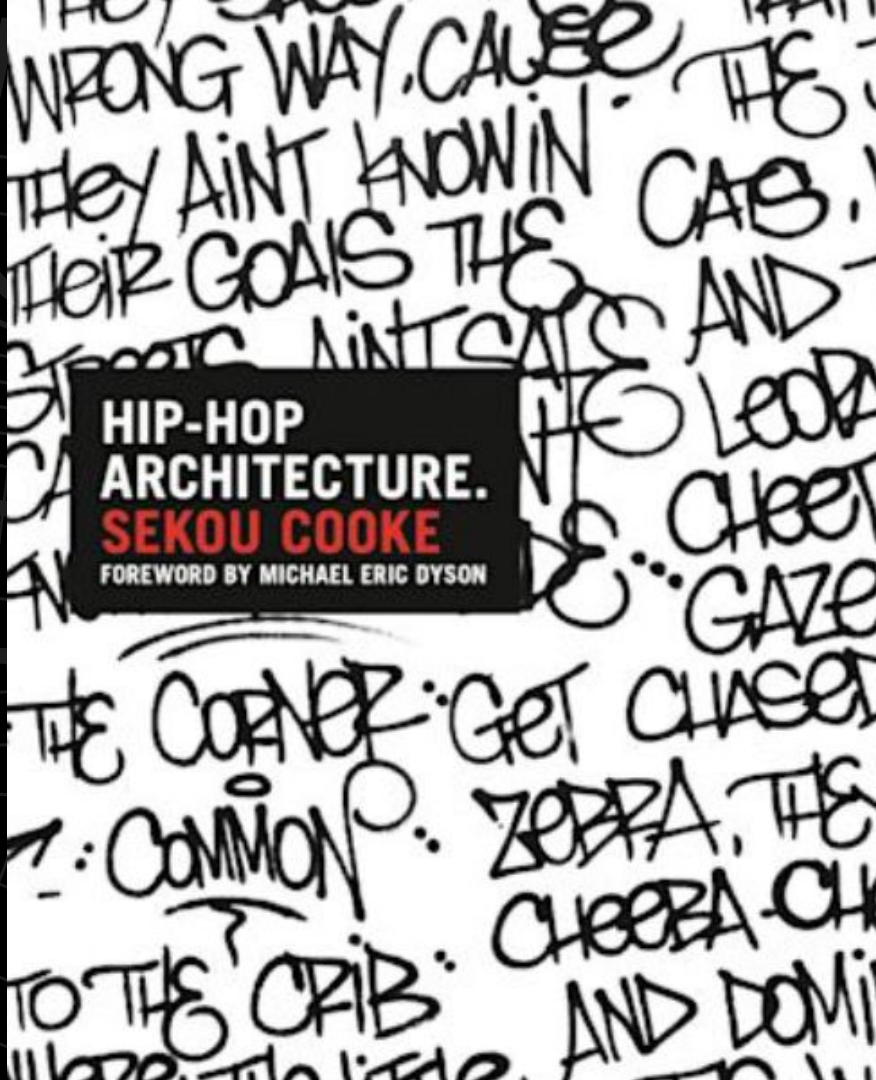


HIP HOP EDUCATION

An education that is based in freely expressing yourself when learning content. The main focus is creative expression in learning. Hip Hop education is how you can take a rigorous concept and learn it in an enjoyable way.

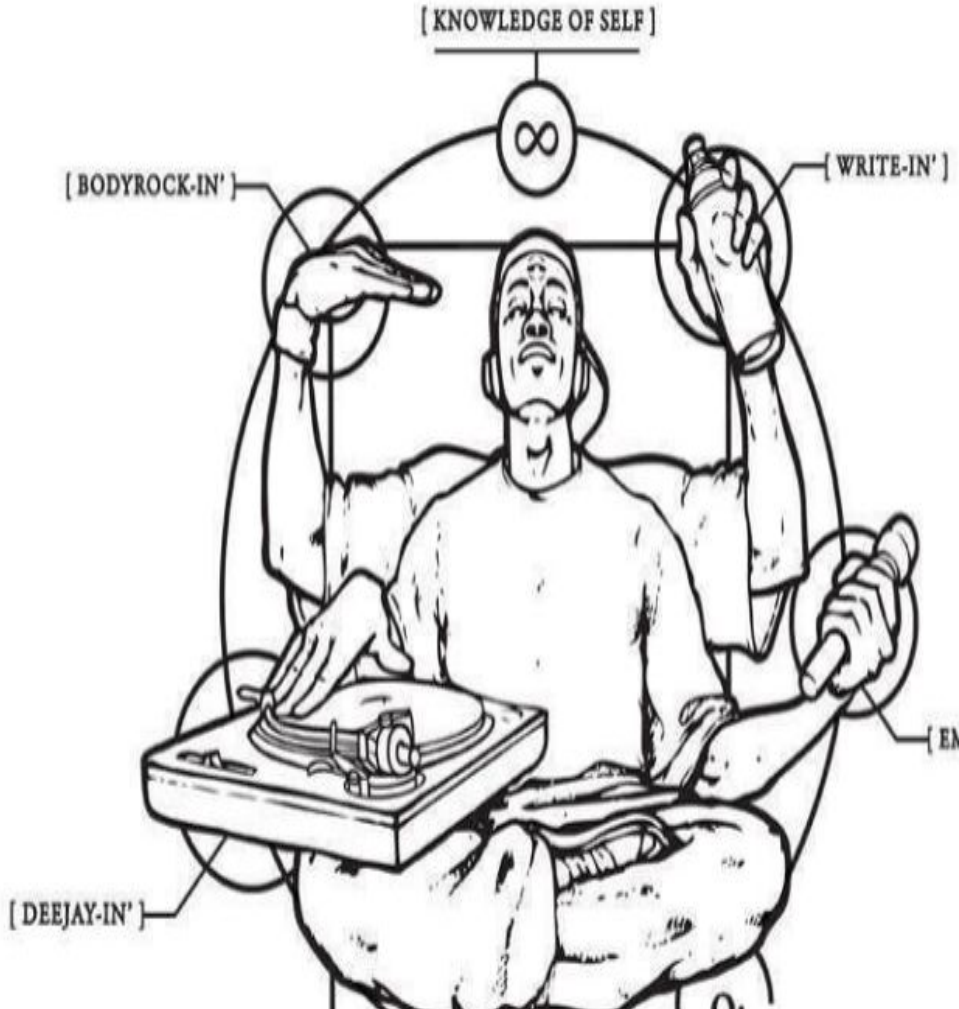
HIP HOP ARCHITECTURE

Hip Hop architecture is a critique of the everyday environment that we spend time in. Hip Hop architecture allows Black and Latinx culture to drive architectural styles.



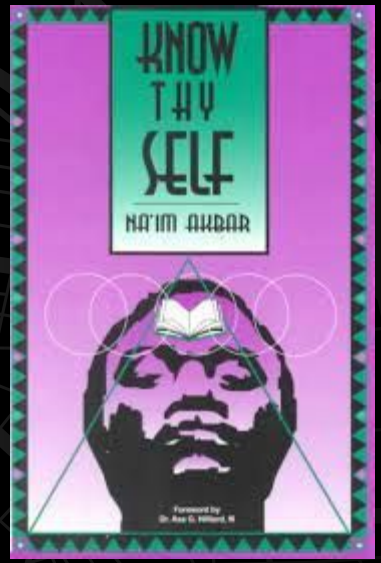
The Five Pillars of Hip Hop

1. MCing (oral)
2. DJing (auditory)
3. Breakdancing (physical)
4. Graffiti (Visual)
5. Knowledge of Self (Mental)



Knowledge of Self

Knowledge of self emphasizes being well informed about the past, particularly the hidden histories of marginalized peoples, and being well aware of contemporary forms of oppression.



LOCATION

Our Campus is located in Research Triangle Park

- Between the Apple and Cisco Campus
- Next to Lake Betz and Holts Pond
- Surrounded by a natural reserve
- Close to walking trails
- About 10 minutes from our current schools

NetApp RTP
Foundation Medicine
1639
1639
147
540
Lake Betz
SOL Academy
Cisco Systems
Cisco Systems RTP
2 - Hardwood
Building 3
Holt's Pond
Davis Dr
Golf Galaxy
Little Dr
O'Kelly Chapel Rd
Guitar Center
Wasserwerk
540
Parkside

Safety

What is safety to US?

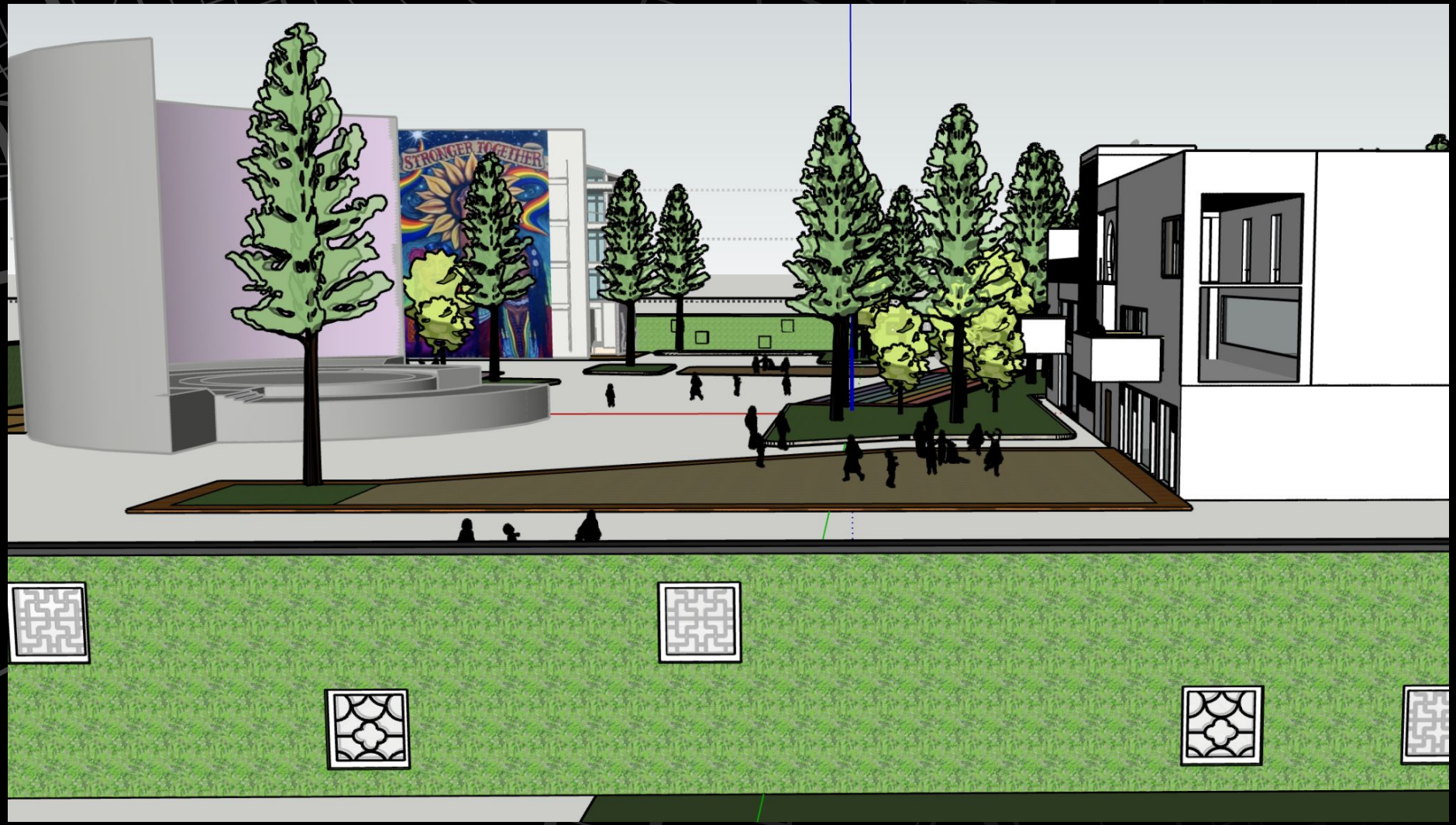
- Safety is more than just getting to and from school unharmed, safety is looking out for the well being of our students, teachers, and staff whether that is emotionally, spiritually and mentally.

Why is this important?

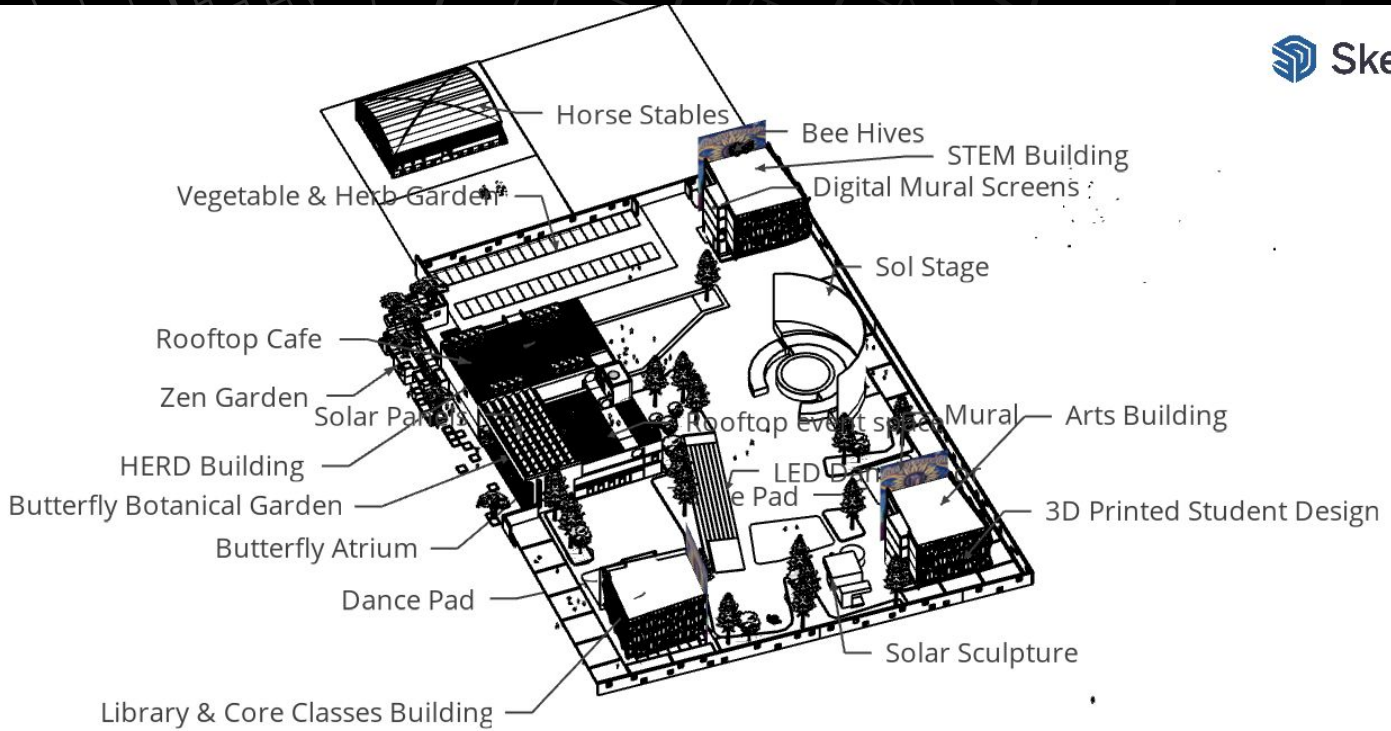
- While school is for learning, school should also be a place where everyone can be themselves and be protected and encouraged to do so. We will do that by keeping them safe without them feeling like they are restricted or in prison.

How we incorporated this into our design:

- Facial recognition
- Public access to main building only
- Gate: secure but not prison looking
- Greenery: creates a clean, calm environment


STRONGER TOGETHER

School Layout

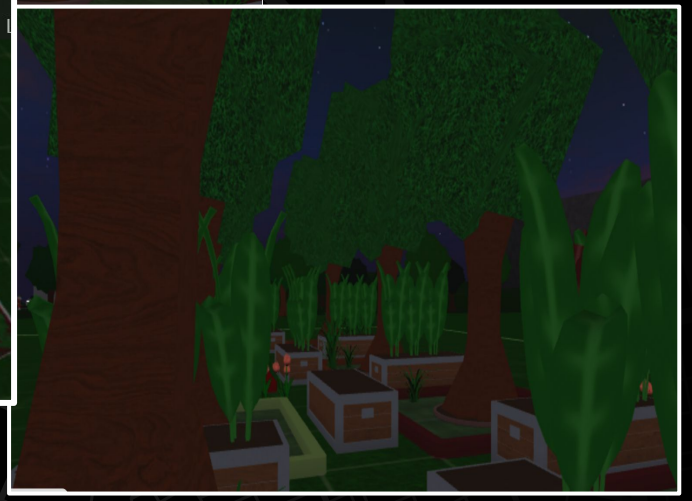


STRONGER TOGETHER

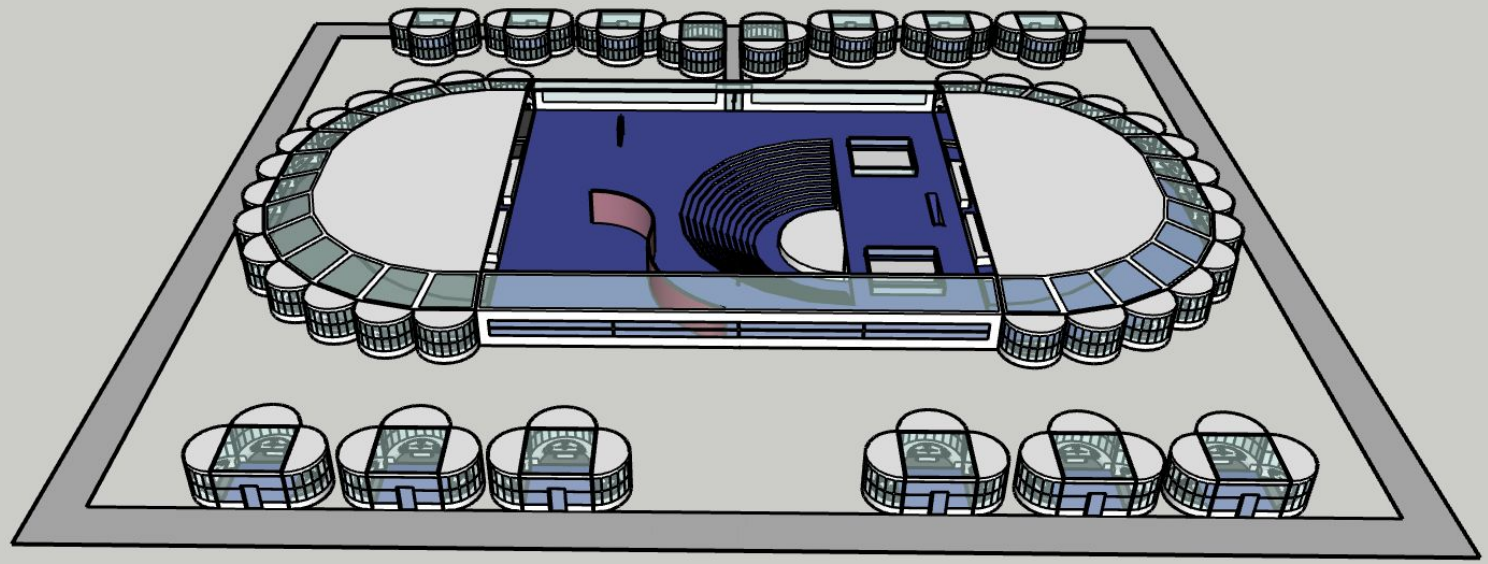
Garden

Avahorrorquee
Baby
Cinti511
Gabby
Gabriela
Jojo
Move - Select

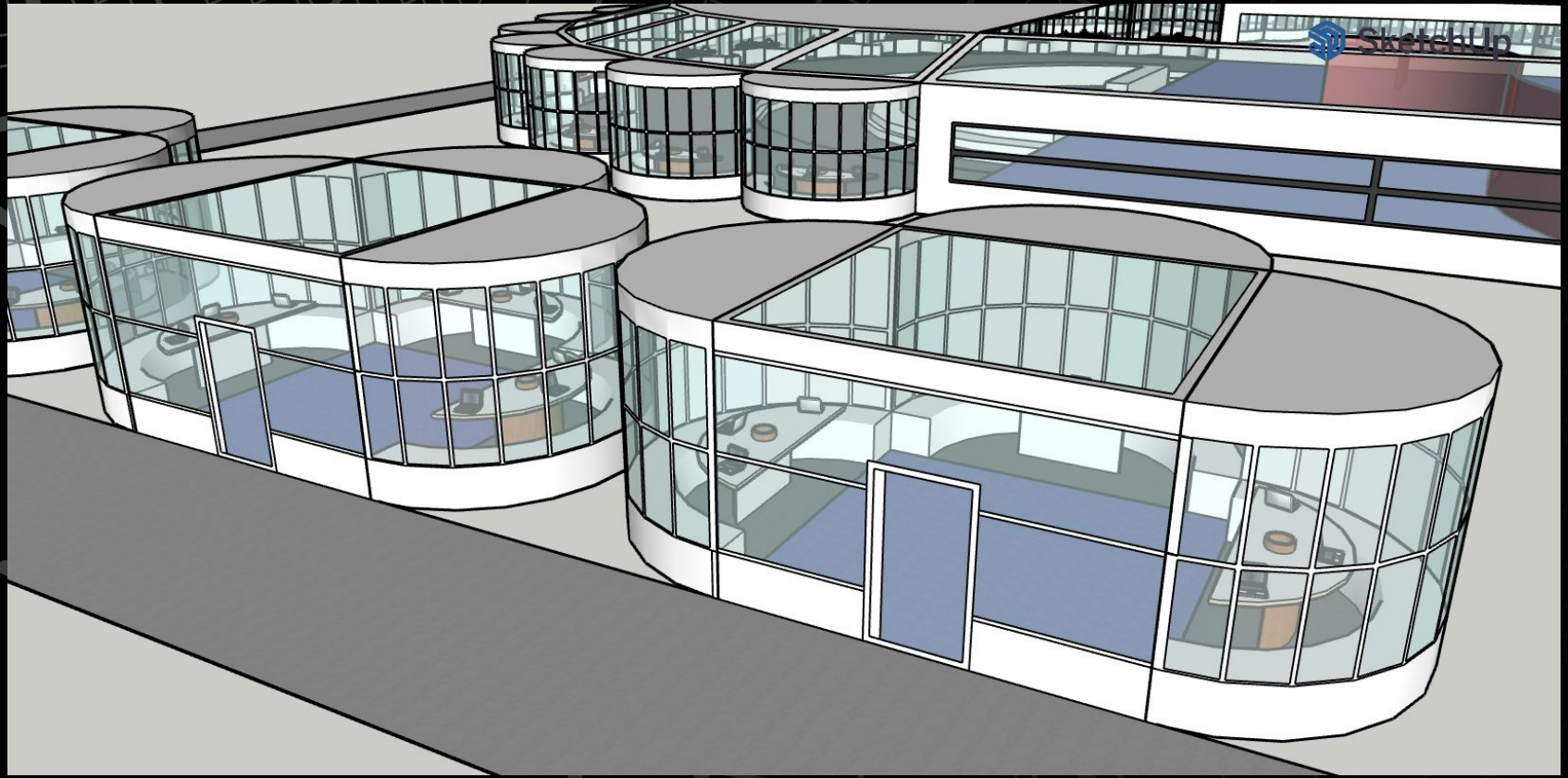
Move - Select



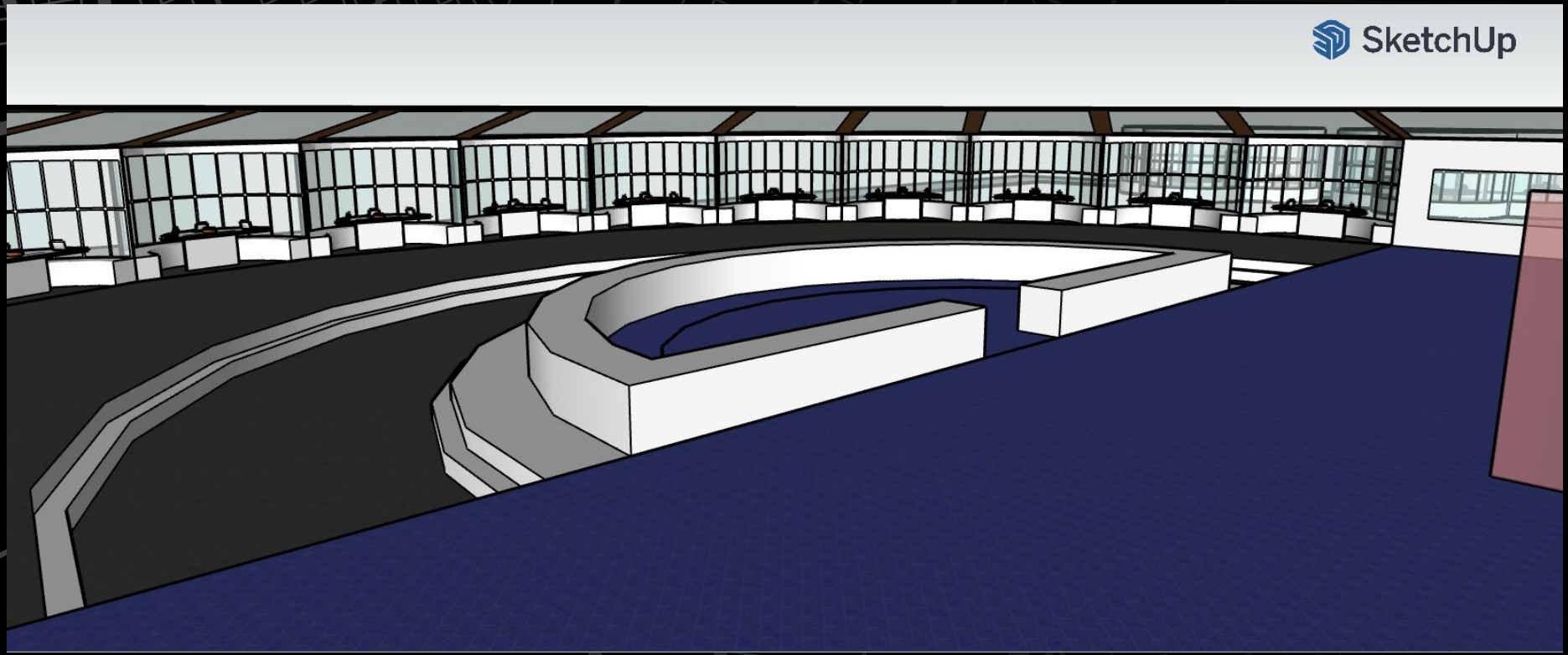
Open floor layout with surrounding pods



Core Building Pods

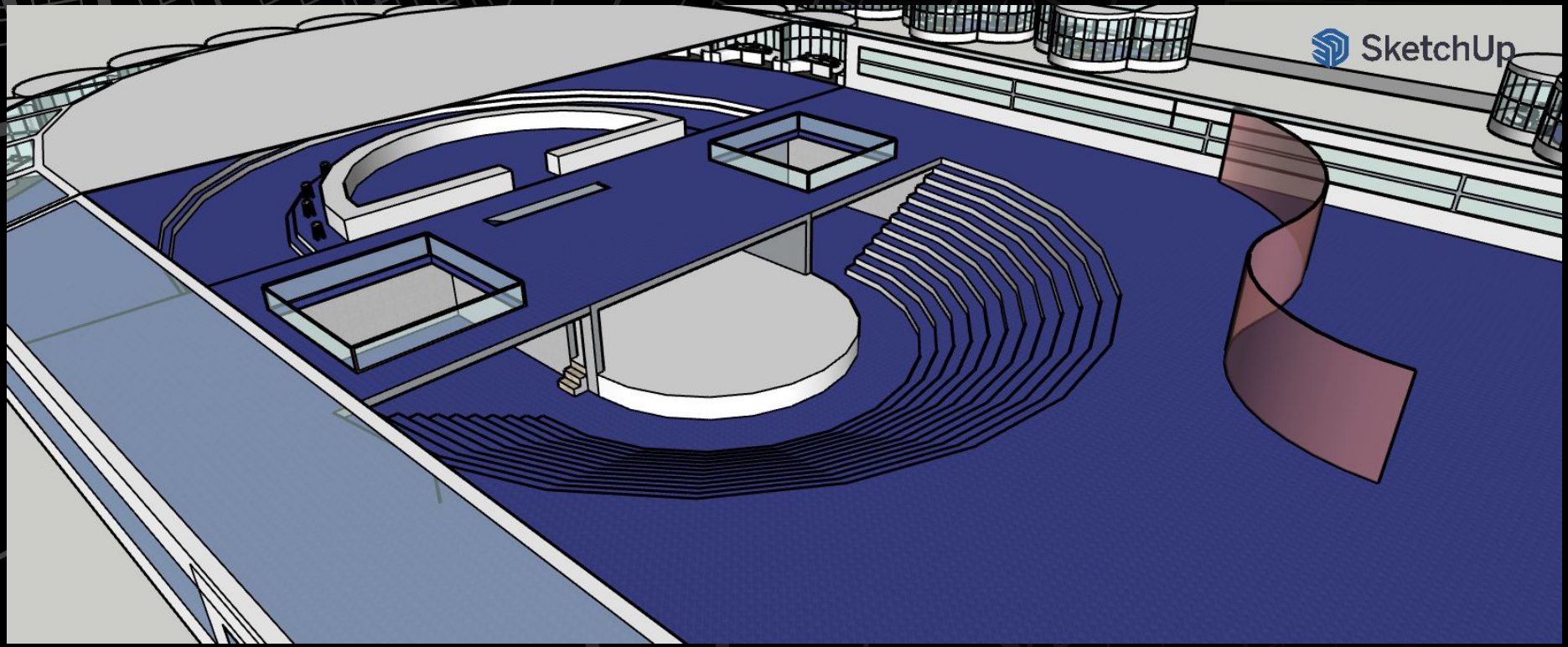


Open floor layout with surrounding pods



SMART GLASS

Theater



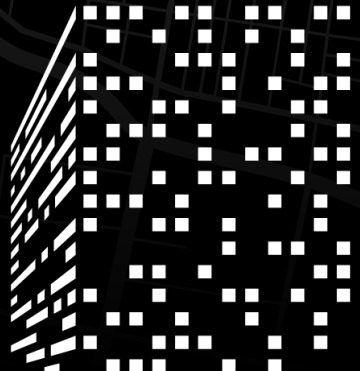
OUR LEARNING SPACES

STEM BUILDING

Open floor concept with learning pods & Greenhouse located on the first floor.

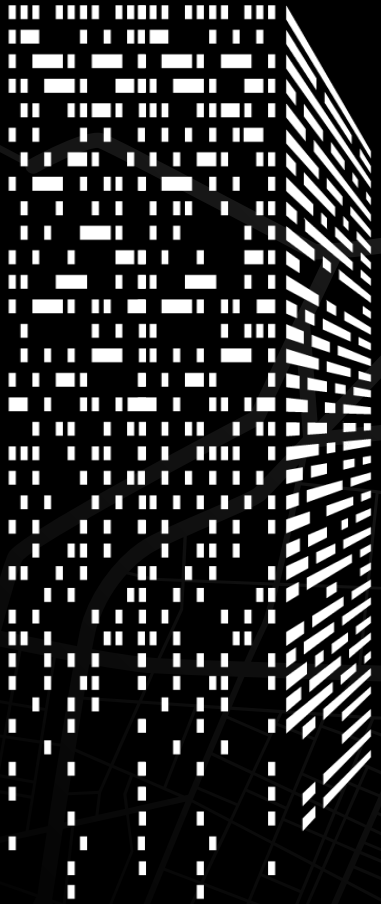
ARTS BUILDING

Open floor concept that includes dance studios, music studios and makerspaces. Theater located on the 1st floor.



CORE BUILDING

Open floor concept with learning pods. Library Located on 1st floor

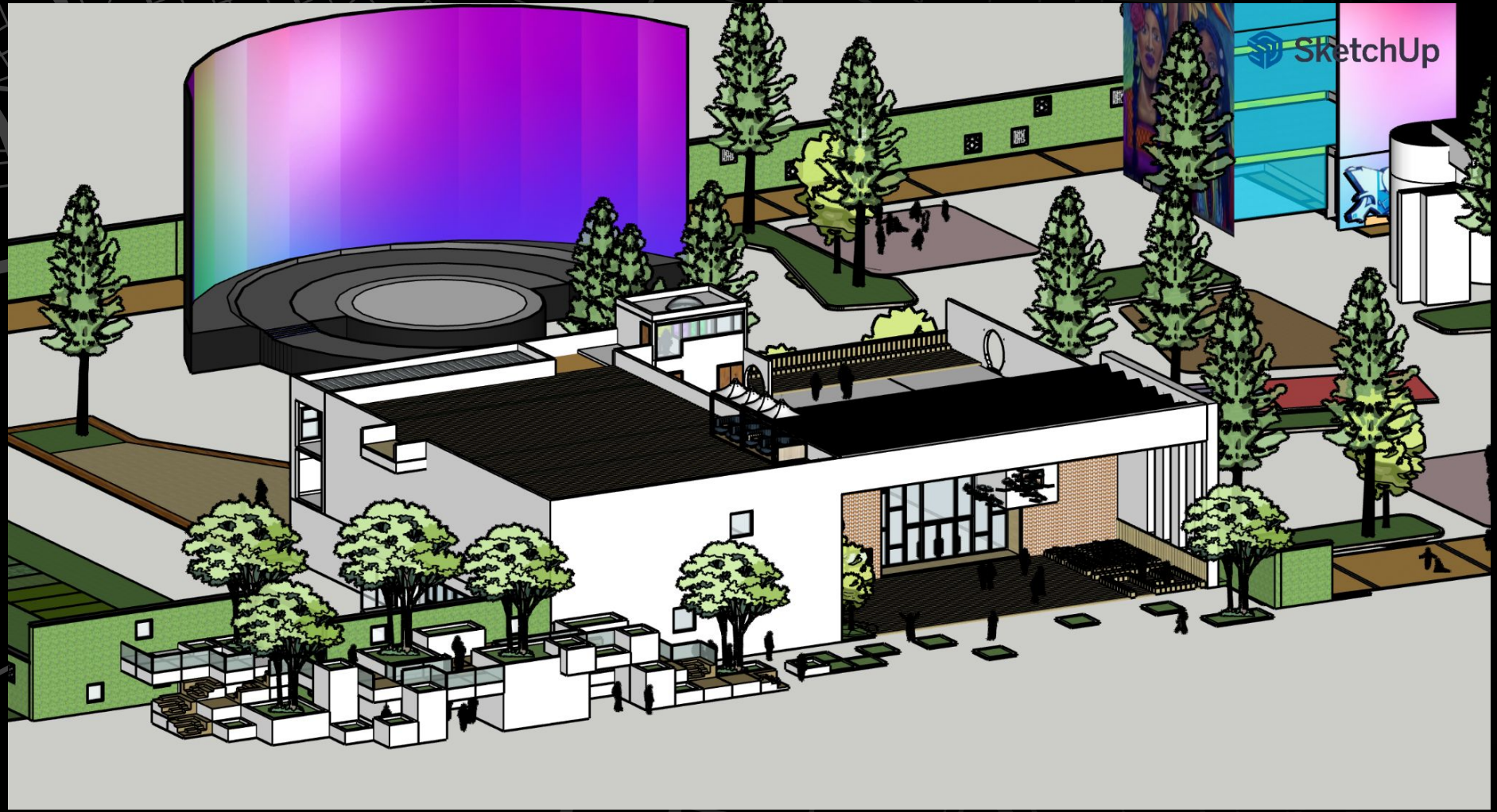


H.E.R.D BUILDING

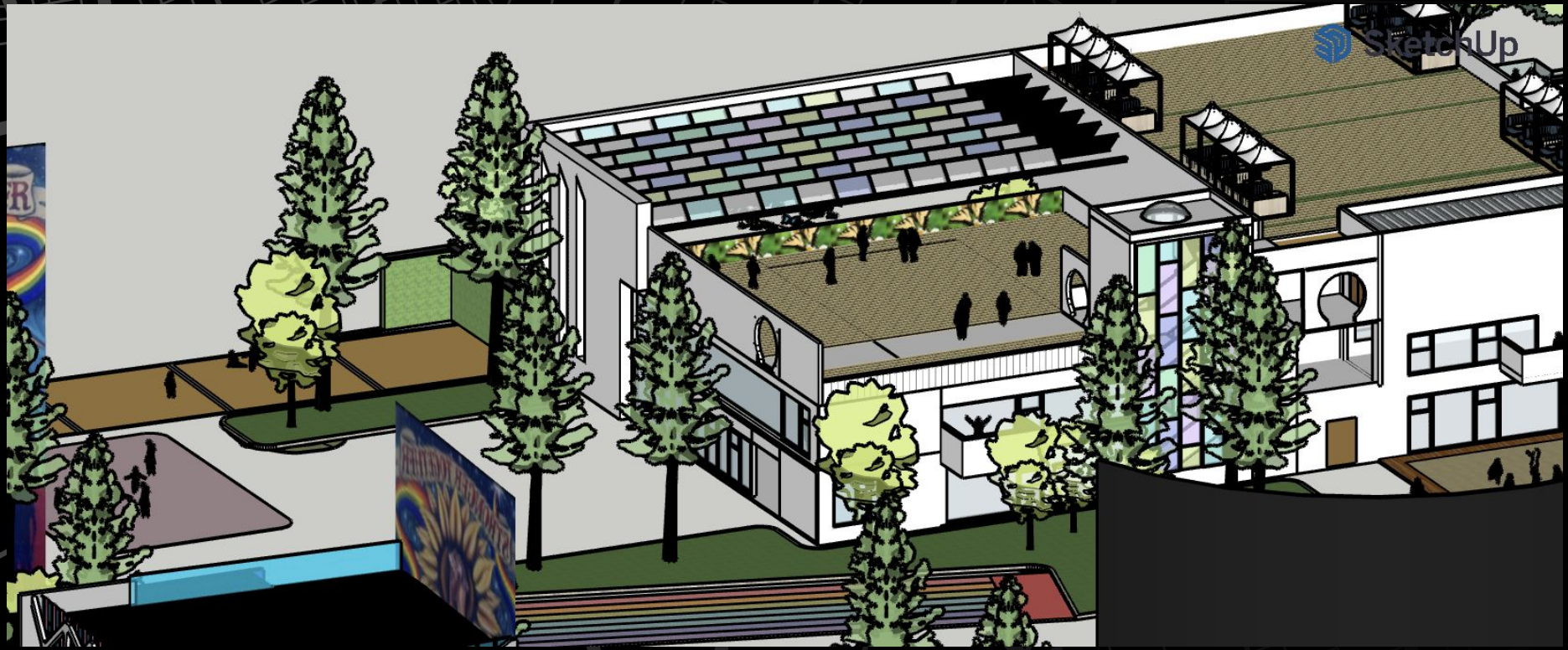
HEALING ELEVATING REVITALIZING DOMAIN

- Therapy Rooms
- Virtual Therapy Pods
- Yoga & Meditation Studio
- Basketball Court
- Student Lounge
- Community Event Space
- Butterfly Botanical Gardens
- Virtual Rooftop Cafe

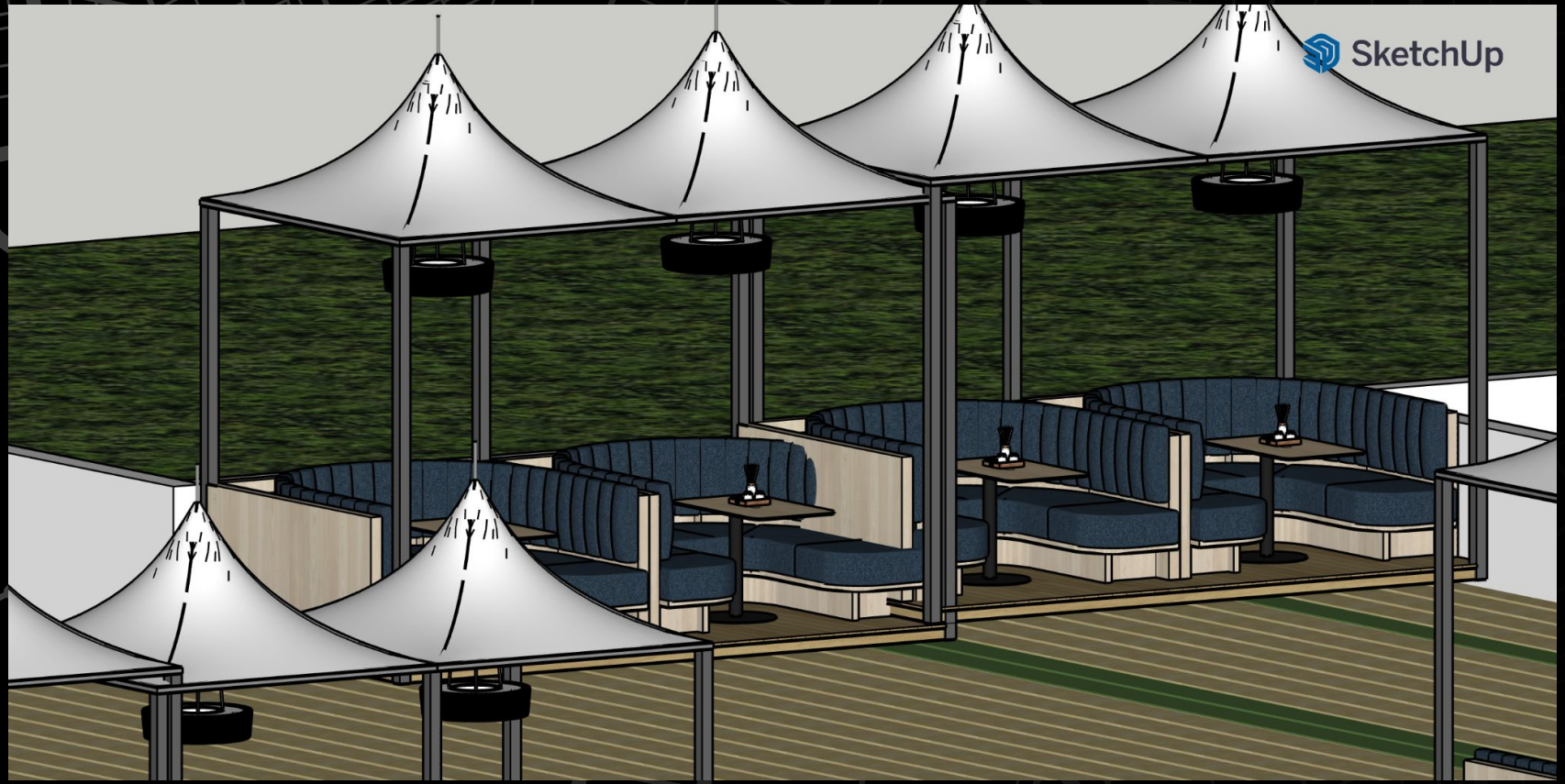
Lobby in HERD building


SketchUp

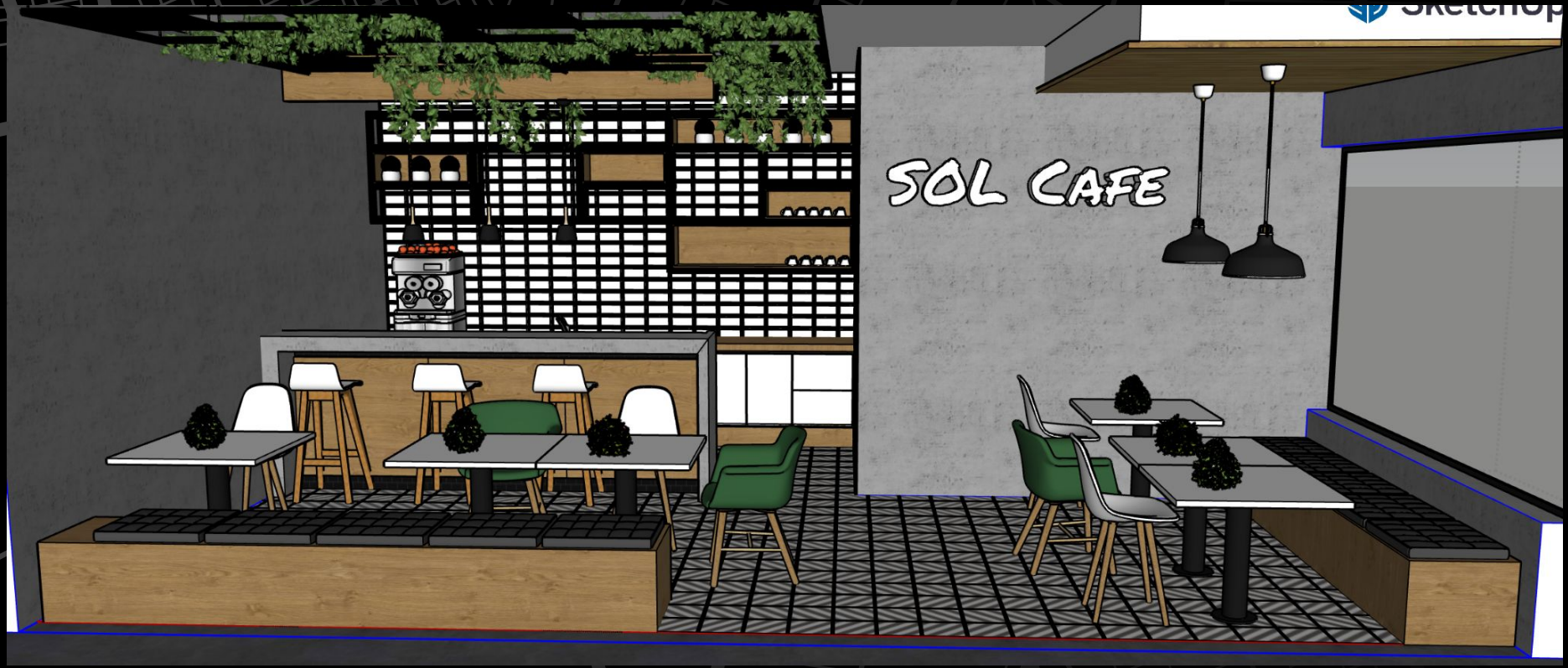
Rooftop Spaces



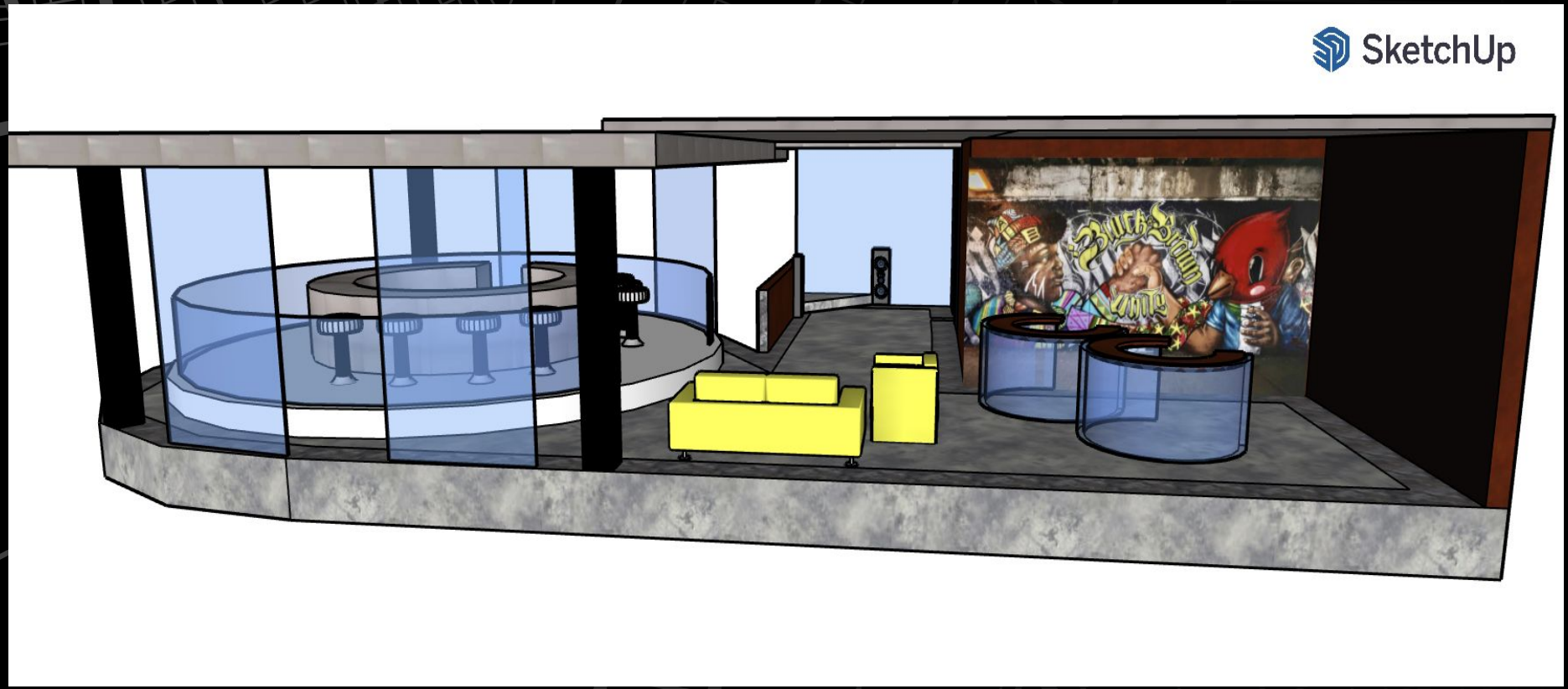
Rooftop Cafe



SOL Cafe



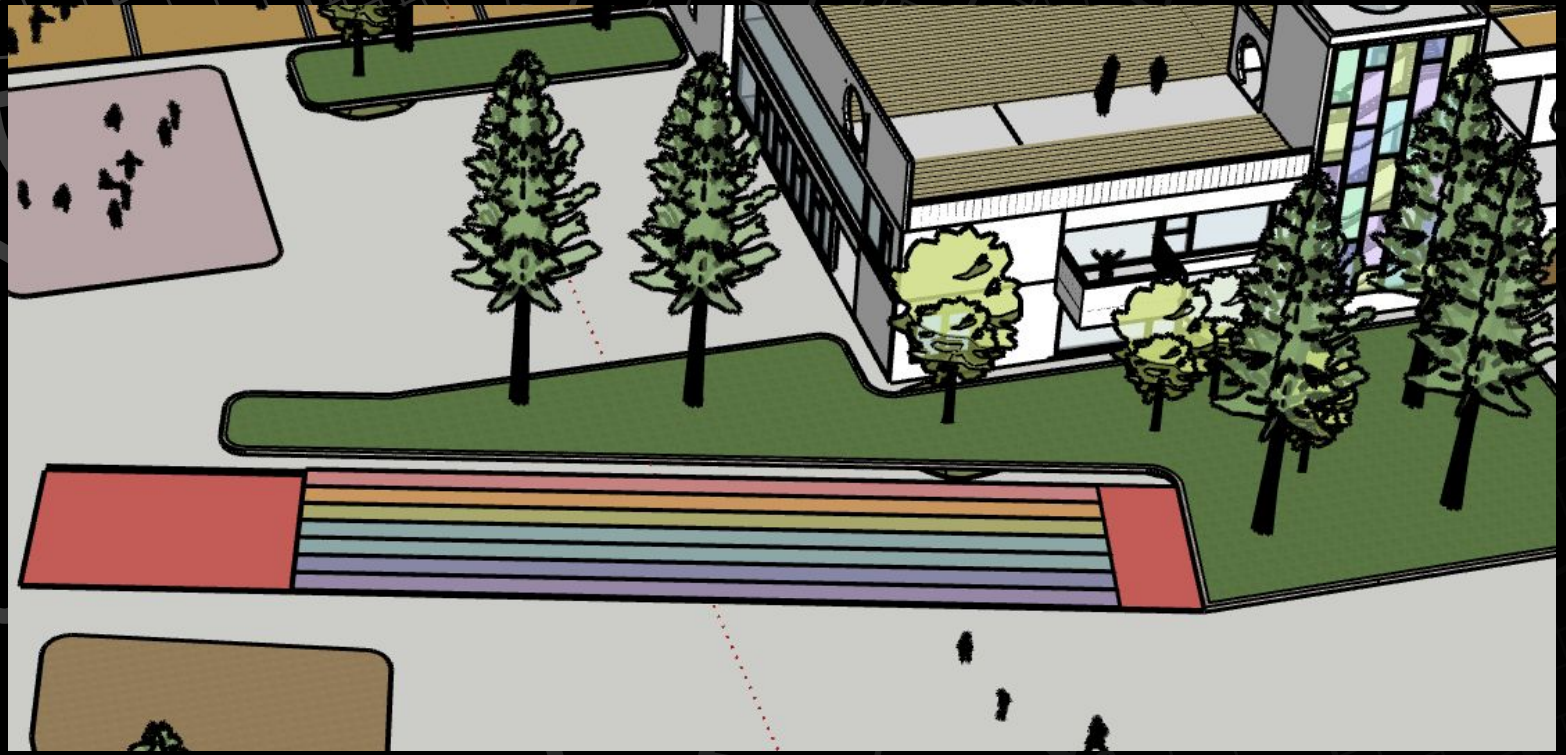
Music Studios



DJ Booths

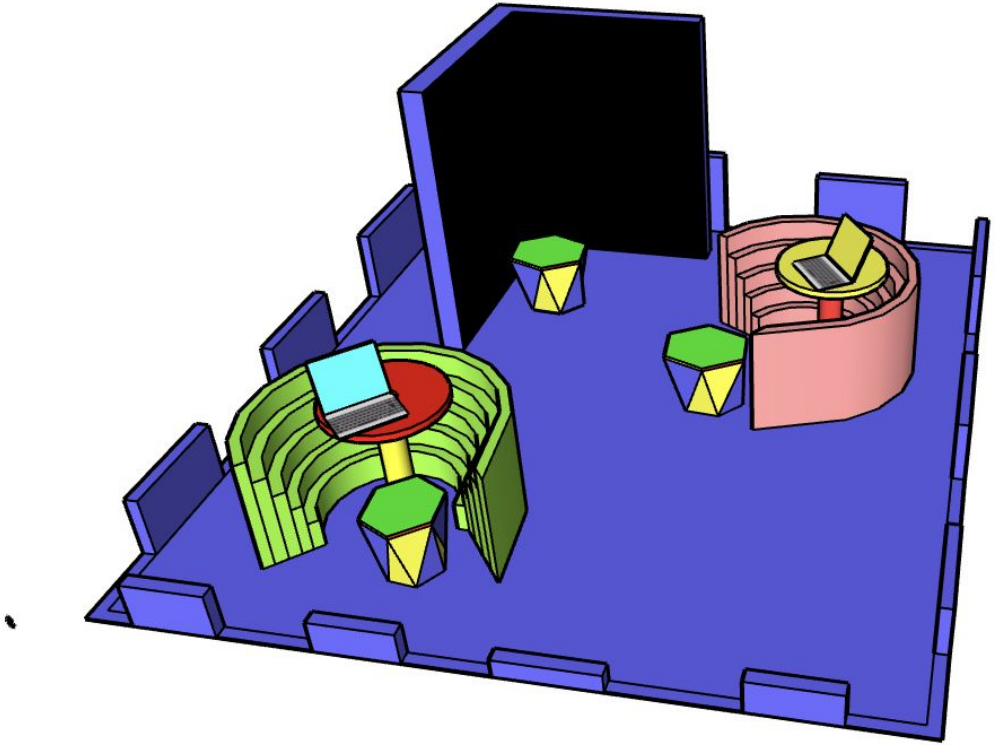
Dance Pads

LED Outdoor Dance Floor



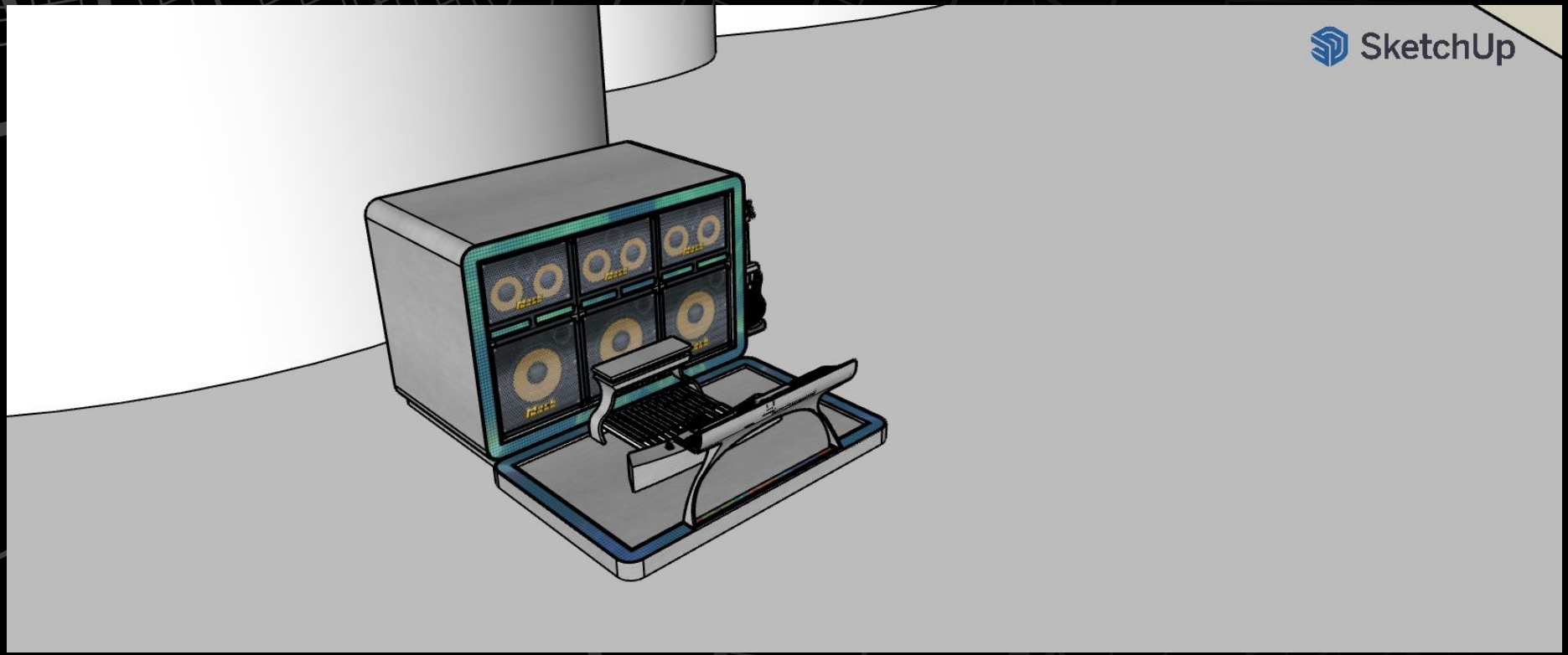
Dance Studio

Art Pods

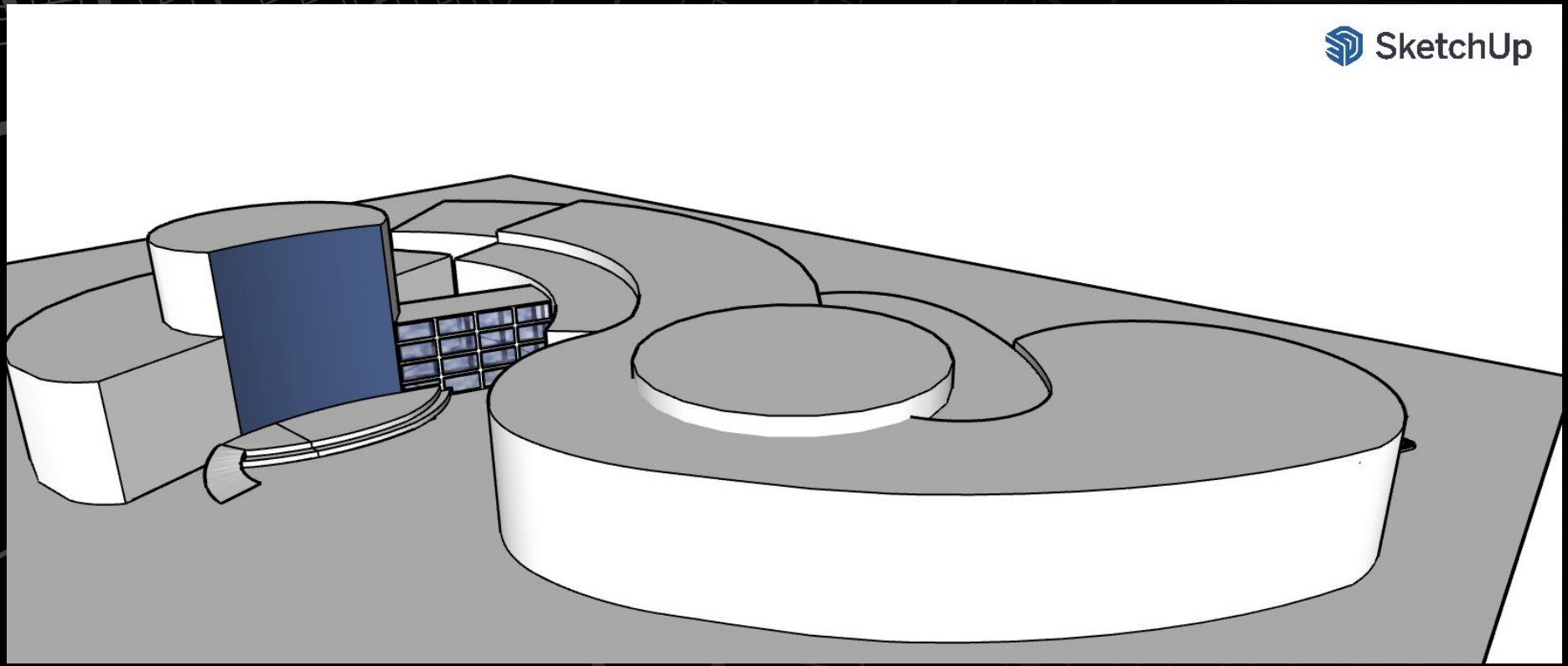


SketchUp

Music Stations in the Arts Building

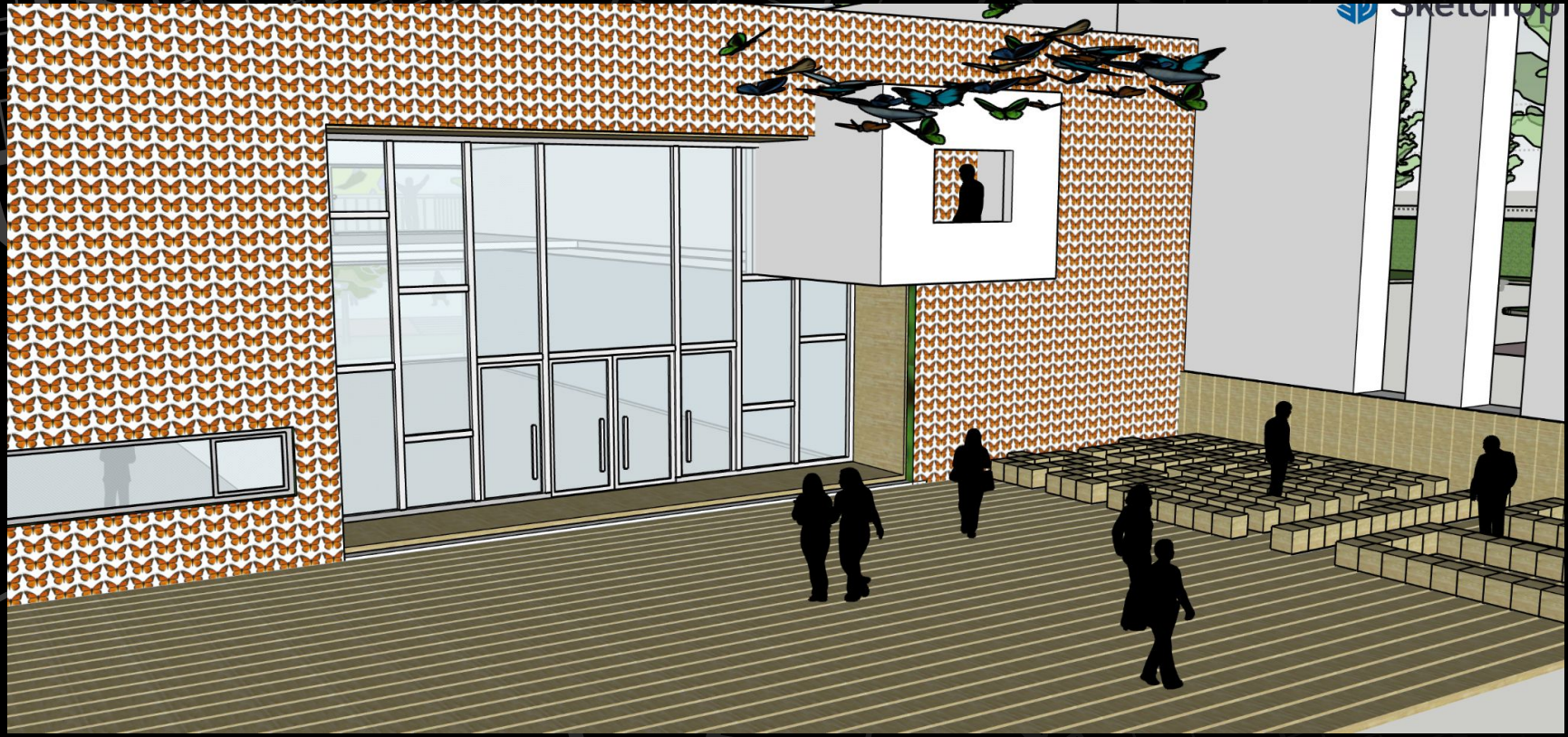


Library



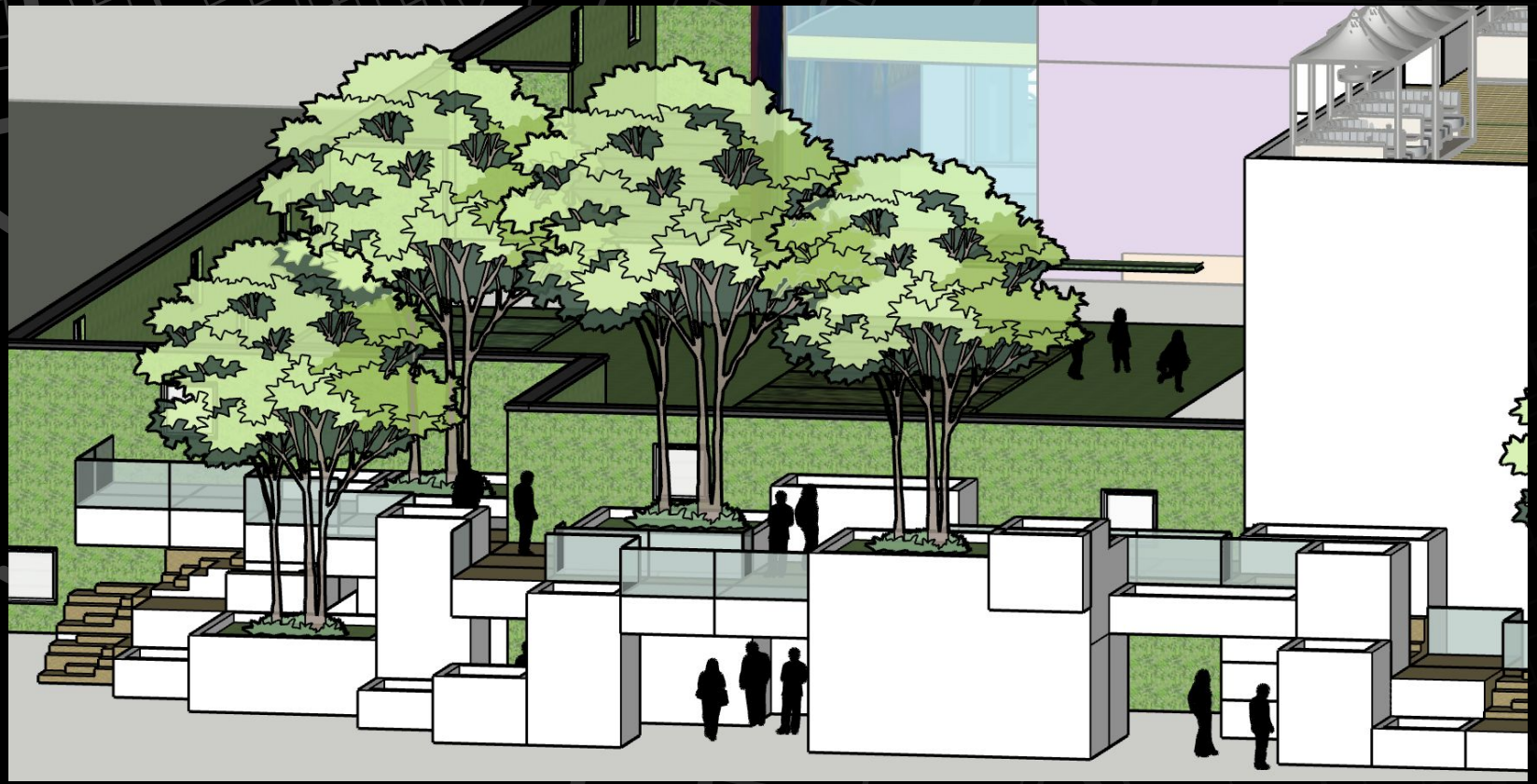
Basketball Court

Butterfly Atrium

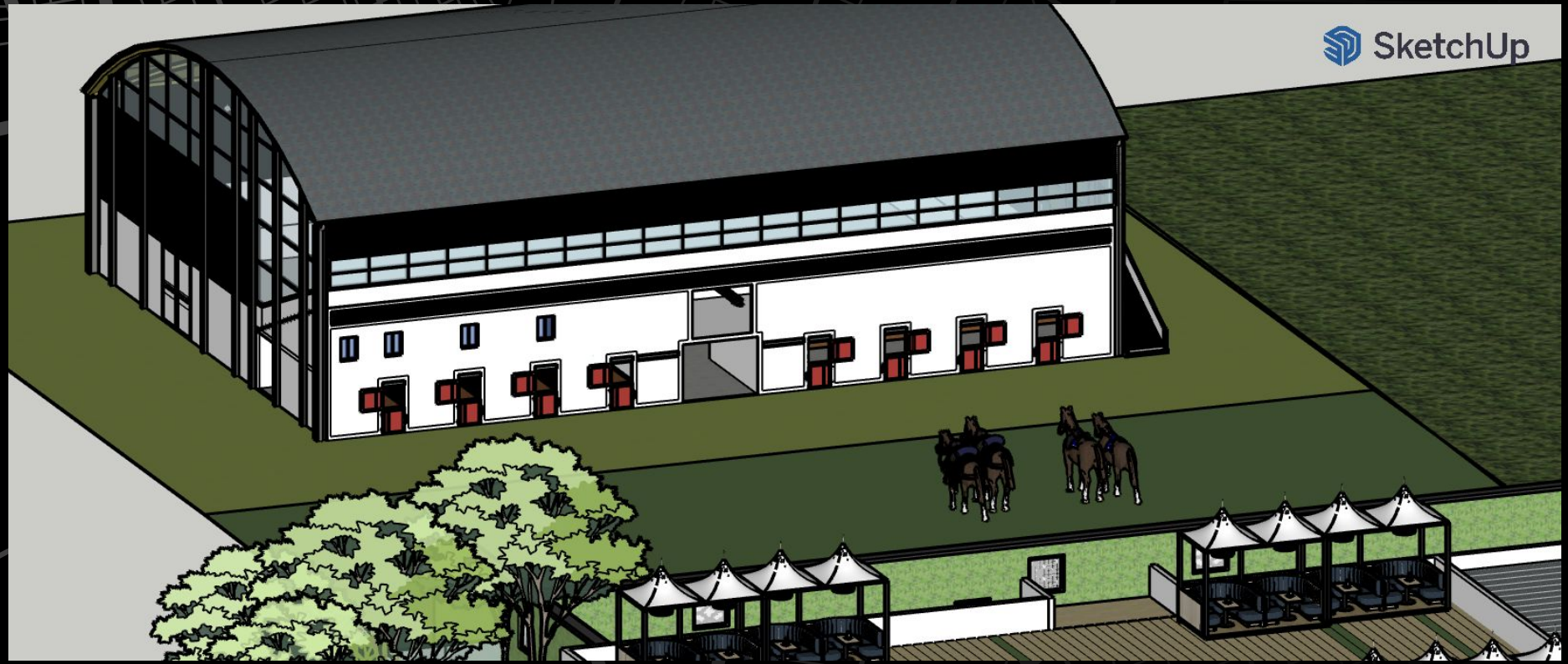


BUTTERFLY BOTANICAL GARDEN

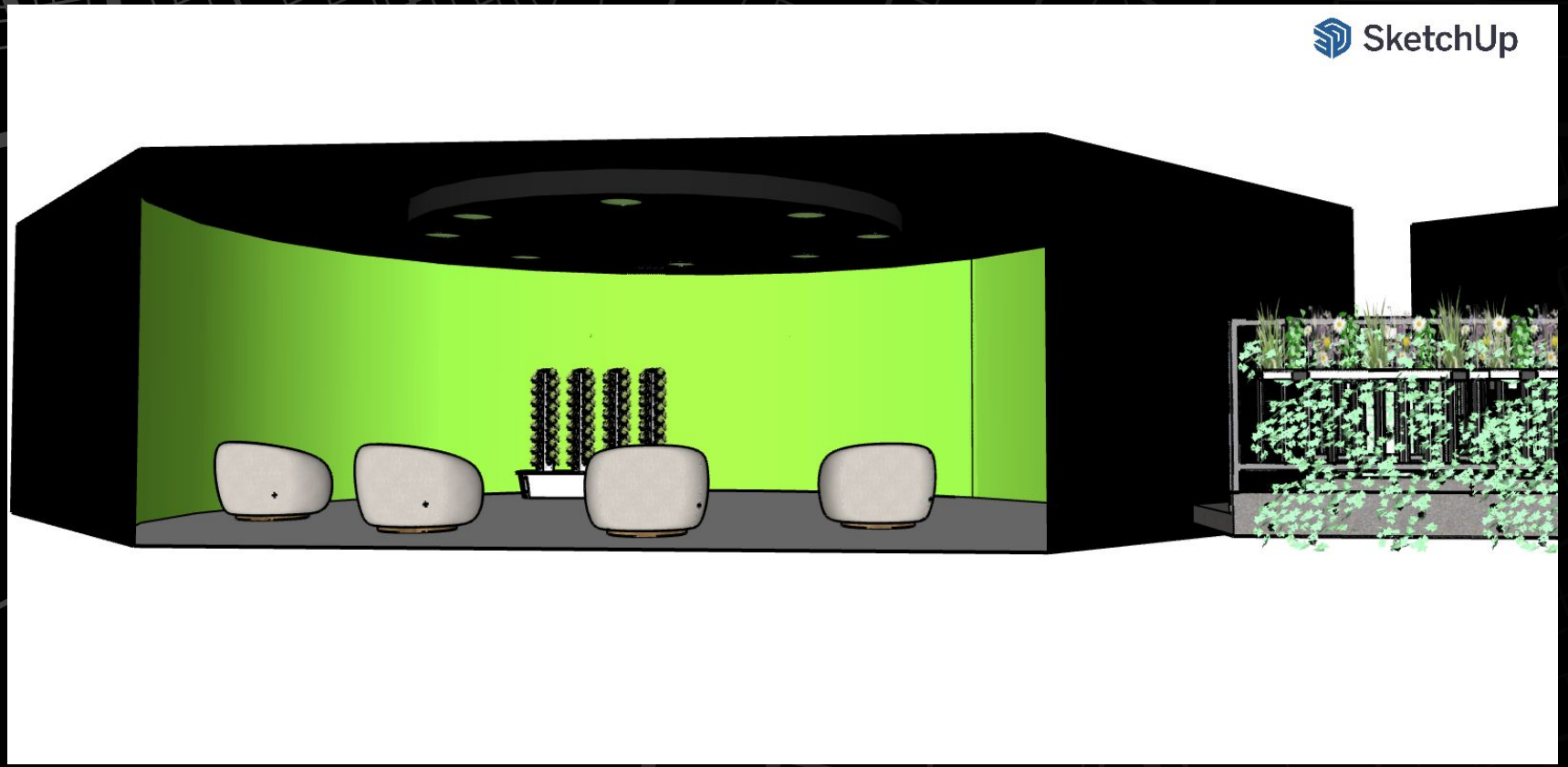
Zen Garden



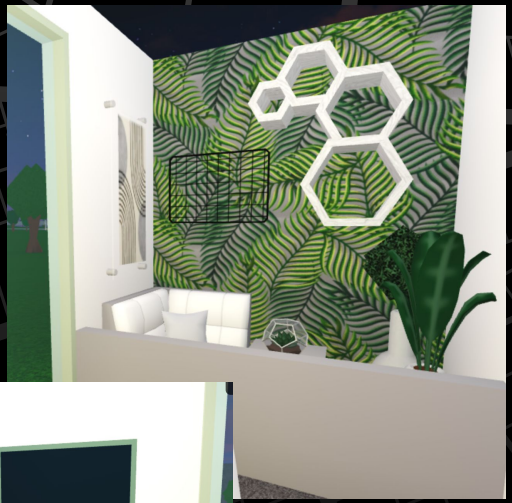
Horse Stables & Riding Arena



STEM Building & Hydroponics Labs/indoor Greenhouse



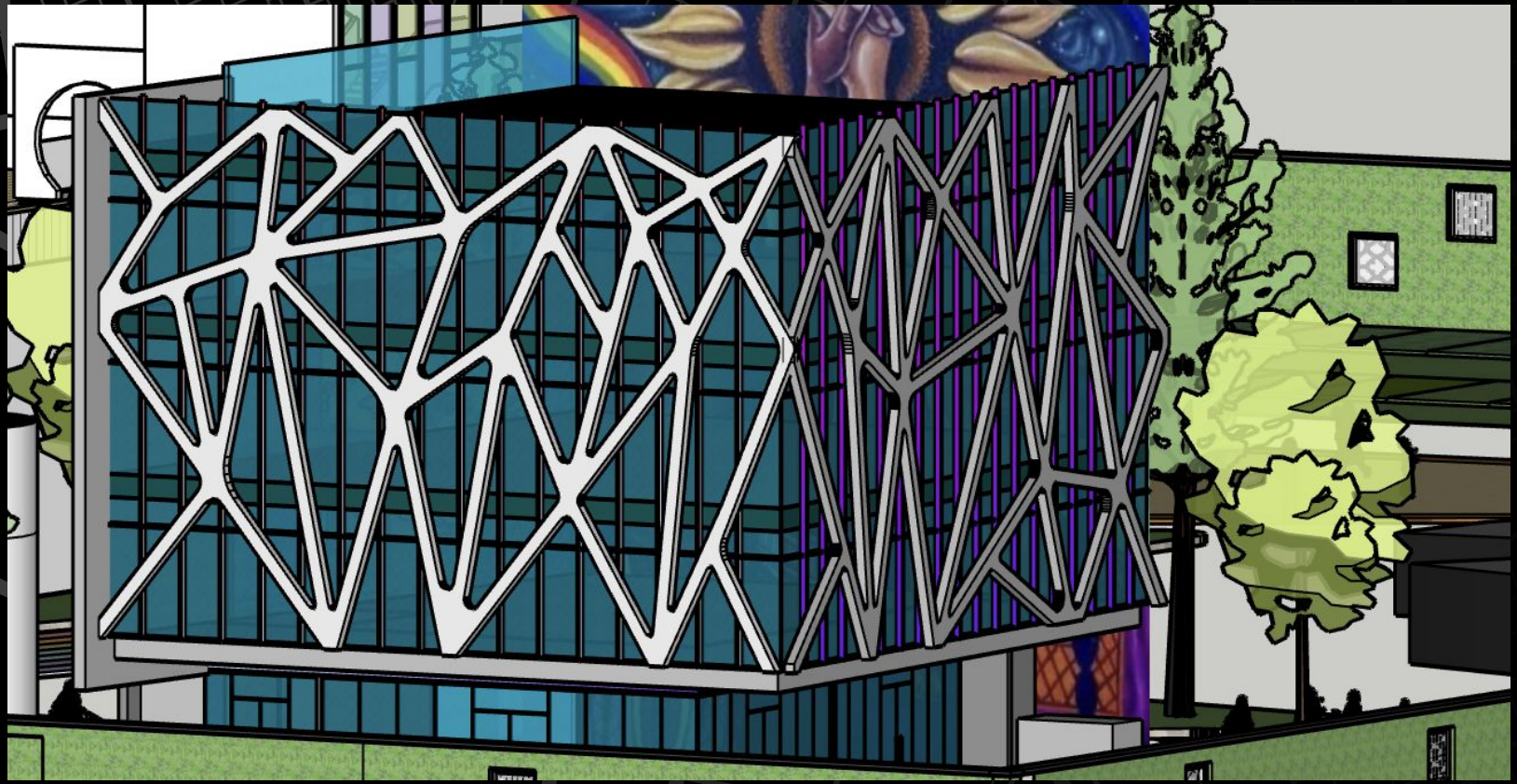
PODS



Here we see a prime example of a STEM pod. It consists of plants and tons of greenery. The goal of a pod is to make you feel comfortable and productive.

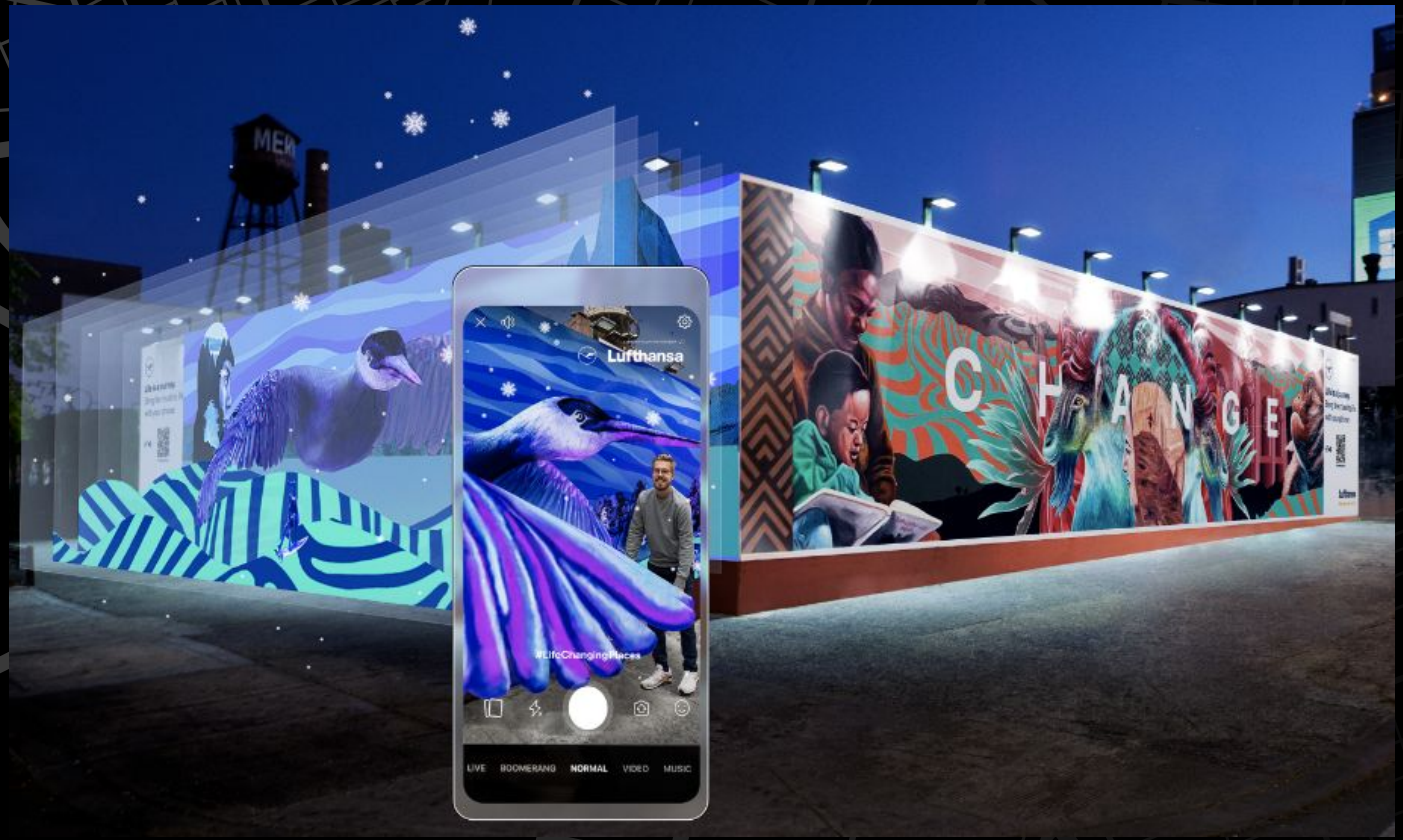
Murals

3D Printed Design & Coded LED Lights

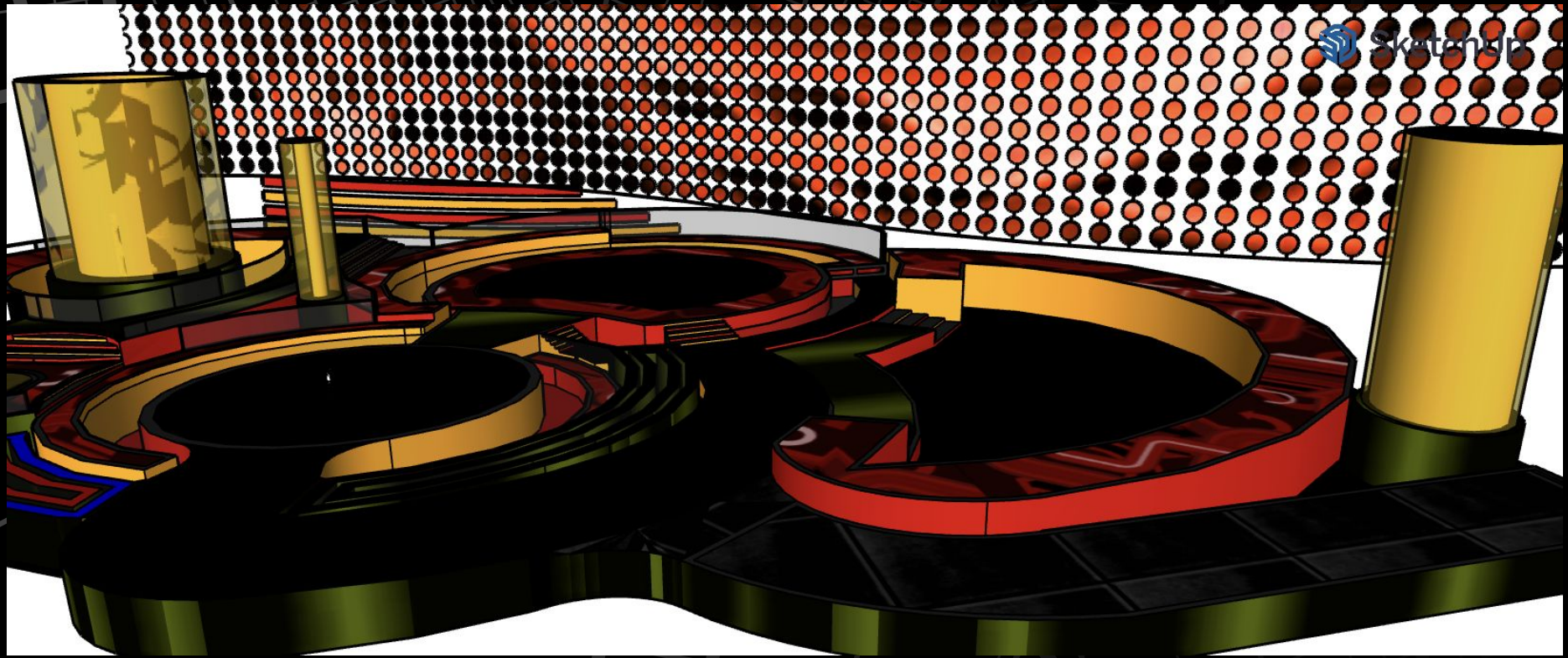


VR Stations

AR (Augmented Reality) Murals



Maker Spaces for Music & Art



BEE HIVES

We took an innovative approach in to the design of our apiary. Our apiary is designed to look like honeycomb and bees extracting resources from the comb.
Beekeeping has several benefits to the mental and psychical health of our students