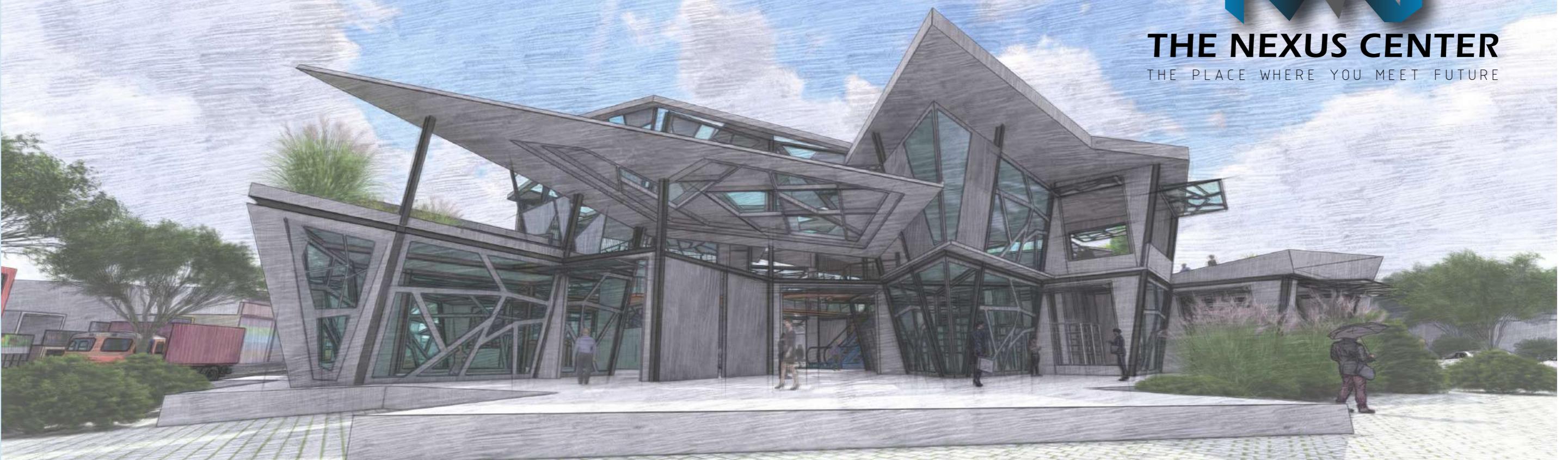




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BUSINESS DEVELOPMENT & LIFESTYLE CENTER

CDP AS1 TECHNOLOGY REPORT

SLIIT - AR2165790708

LJMU - PN1076303

BIMSARA YOHAN KAVINDA



Module: CDP Technology Report

Module No: 6111ARSRI

Year/ Level: Year 03, Semester 02

Date of Submission: 15/08/2023

Assignment/ Project: CDP Technology Report

Module Coordinator: Archt. Srinath Wijethunga

Student ID: LJMU – PN1076303

SLIIT – AR21657078

MARKS

Student Declaration:

By this declaration, I confirm my understanding and acceptance that the work reported in this report is my own work. I also understand the consequences of engaging in plagiarism or copying others work without proper citation. Any material used in this work (whether from published sources, the internet or elsewhere) have been fully acknowledged and referenced and are without fabrication or falsification of data.

[Copying or plagiarism will result in a "0" mark for the continuous assessment and "F" for the module after an investigation on academic misconduct;

All academic misconduct is considered seriously and defined as dishonest and in direct opposition to the values of a learning community. Misconduct may result in penalties from failure to exclusion from the campus.

Further help and guidance on how to avoid academic misconduct can be obtained from your academic advisor/tutor]

By this declaration, I confirm my understanding and acceptance that-

- I have adhered to relevant ethical guidelines and procedures in the completion of the assignment.
- I have not allowed another student to have access to or copy from this work.
- This work has not been submitted previously.

[The Institute may request an electronic copy of this work for submission to the Plagiarism detection facility (TURNITIN). You must make sure that an electronic copy of your work is available in these circumstances]

A handwritten signature in black ink that appears to read "Bimara."

Signature

INTRODUCTION

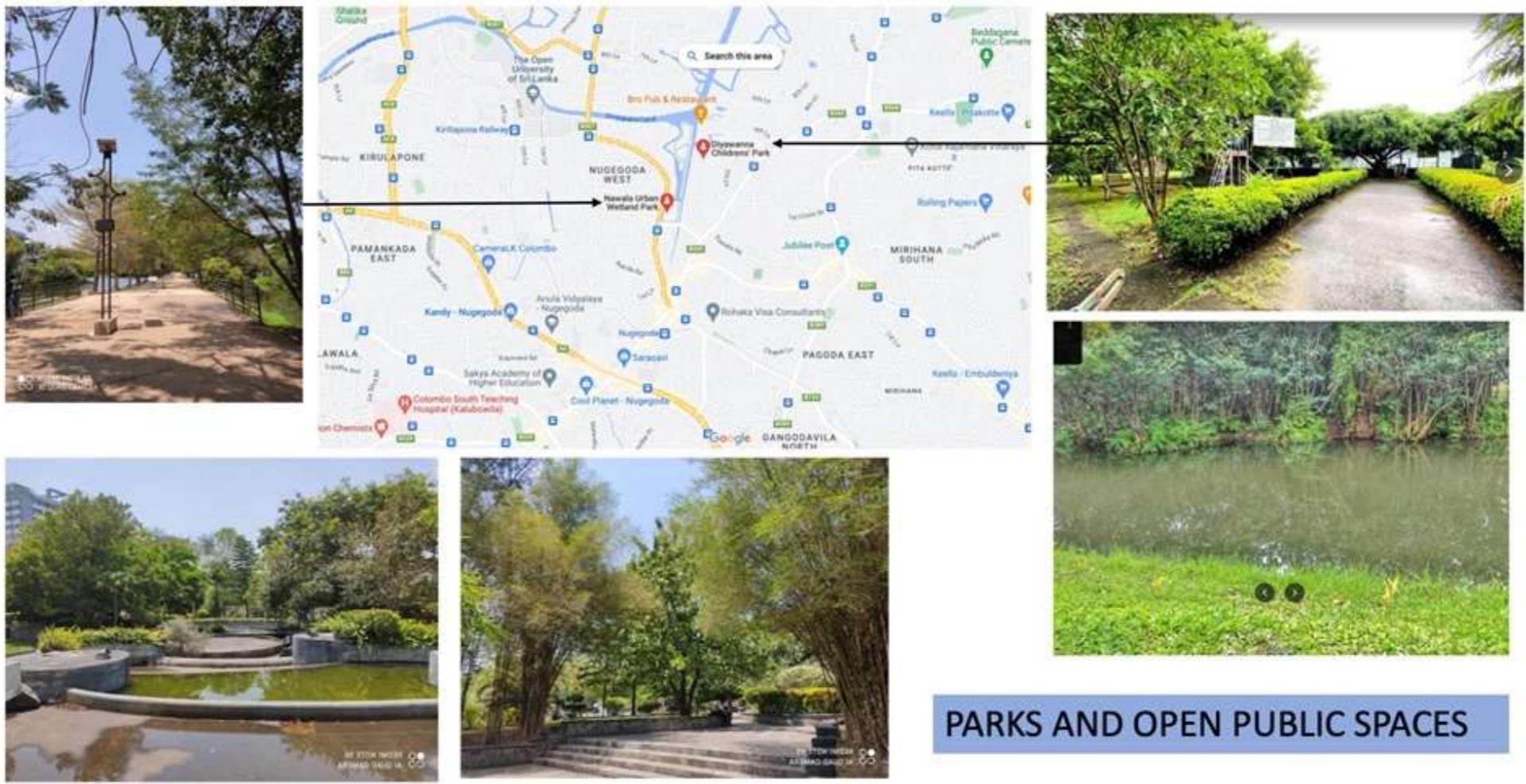
IN DEVELOPING COUNTRIES SUCH AS SRI LANKA, CITIES PLAY A SIGNIFICANT ROLE IN VARIOUS ASPECTS, INCLUDING ECONOMICS, SOCIAL DYNAMICS, AND OVERALL COMMUNITY DEVELOPMENT. AS URBAN AREAS BECOME ENRICHED WITH A DIVERSE RANGE OF TANGIBLE AND INTANGIBLE ELEMENTS, IT BECOMES ESSENTIAL TO ADAPT THEM TO MEET THE EVOLVING NEEDS OF THE PEOPLE.

CONSEQUENTLY, THERE ARISES A NEED FOR THE ESTABLISHMENT OF A DYNAMIC LIFESTYLE CENTER IN NUGEGODA, A VIBRANT DISTRICT WITHIN THE COMMERCIAL CAPITAL OF COLOMBO IN SRI LANKA. THIS PROJECT AIMS TO FOSTER GREATER INTERACTION BETWEEN THE CITY AND ITS RESIDENTS, WHILE SIMULTANEOUSLY ELEVATING THE OVERALL QUALITY OF LIFE FOR THOSE CONNECTED TO THE NUGEGODA AREA. WITH A COMPELLING VISION AND A FOCUS ON ENHANCING COMMUNITY ENGAGEMENT, THIS ENDEAVOR SEEKS TO CREATE A TRULY CAPTIVATING AND ENRICHING URBAN SPACE.

SITE ANALYSIS MACRO CONTEXT

NUGEGODA, A LIVELY DISTRICT WITHIN SRI LANKA'S BUSTLING COMMERCIAL CAPITAL OF COLOMBO, IS A CITY FILLED WITH CHARM AND EXCITEMENT. ITS UNIQUE BLEND OF TRADITION AND MODERNITY CREATES A CAPTIVATING ATMOSPHERE THAT DRAWS PEOPLE IN.

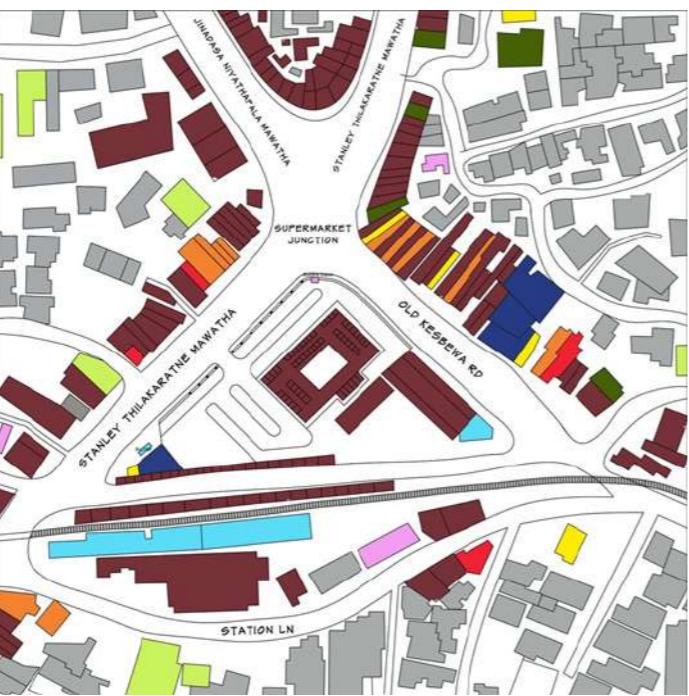
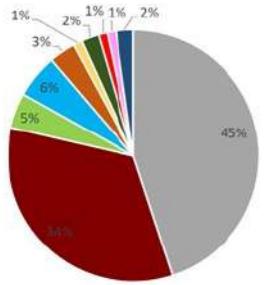
THIS VIBRANT CITY IS A MELTING POT OF DIVERSE CULTURES, BUSTLING MARKETS, AND BUSTLING STREETS. NUGEGODA IS NOT JUST A SNAPSHOT OF THE PRESENT; IT HOLDS THE PROMISE OF AN EVEN BRIGHTER FUTURE. AS THE CITY CONTINUES TO GROW AND EVOLVE, IT ENVISONS A PATH THAT EMBRACES PROGRESS, SUSTAINABILITY, AND AN ENHANCED QUALITY OF LIFE FOR ITS RESIDENTS.



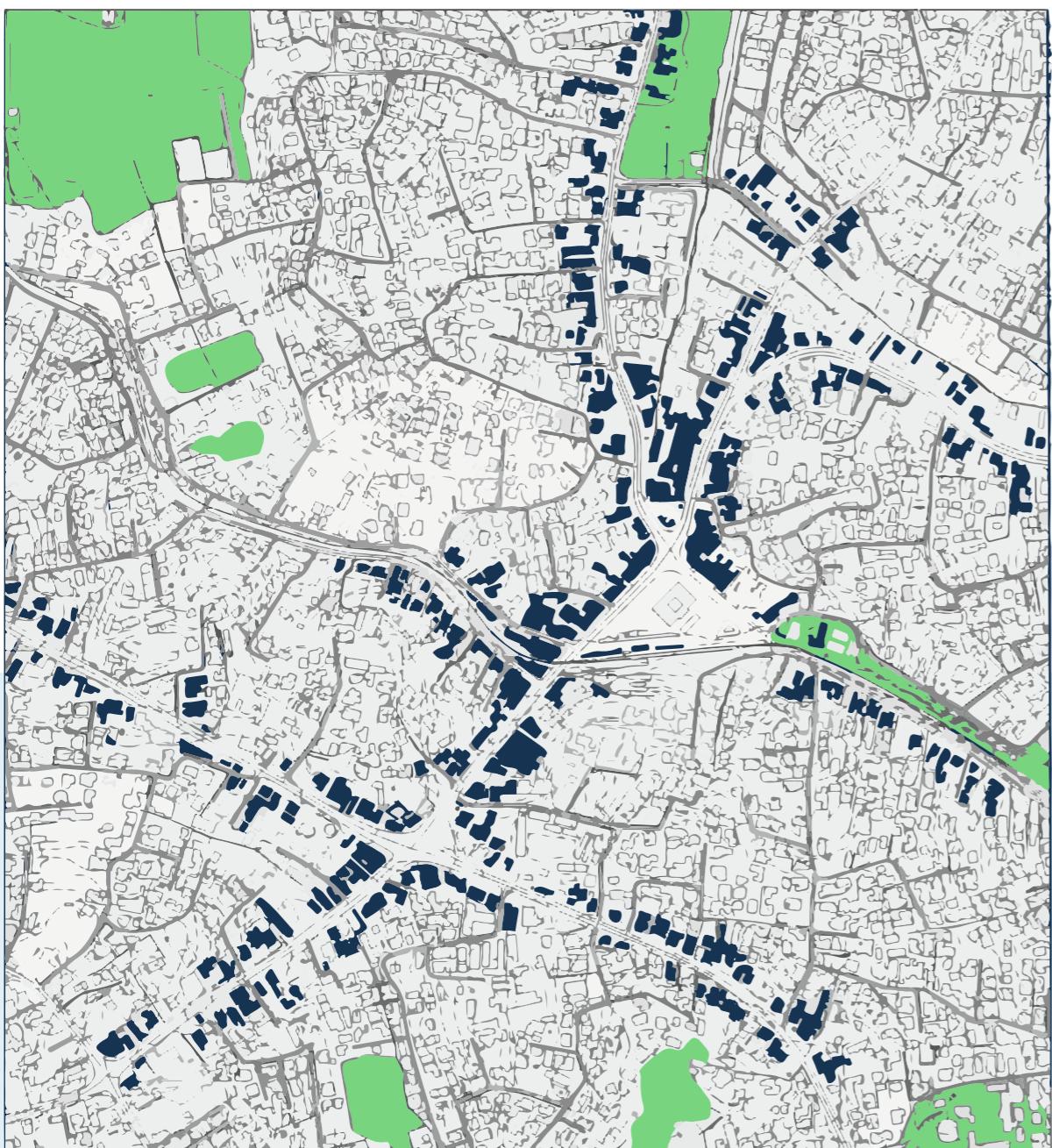
PARKS AND OPEN PUBLIC SPACES

BUILDING USAGE

- RESIDENTIAL
- COMMERCIAL
- EDUCATION
- TRANSPORTATION
- MIX USE
- RESTURANTS
- BANKS
- HEALTH
- RELIGIOUS
- THEATERS



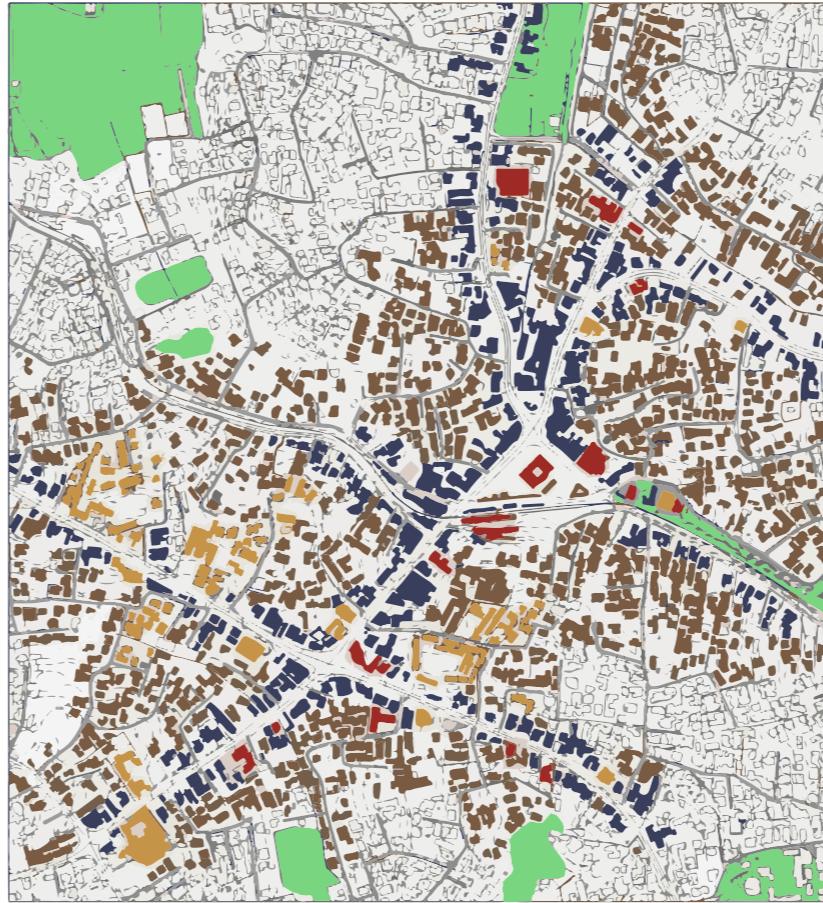
Commercial Land Use



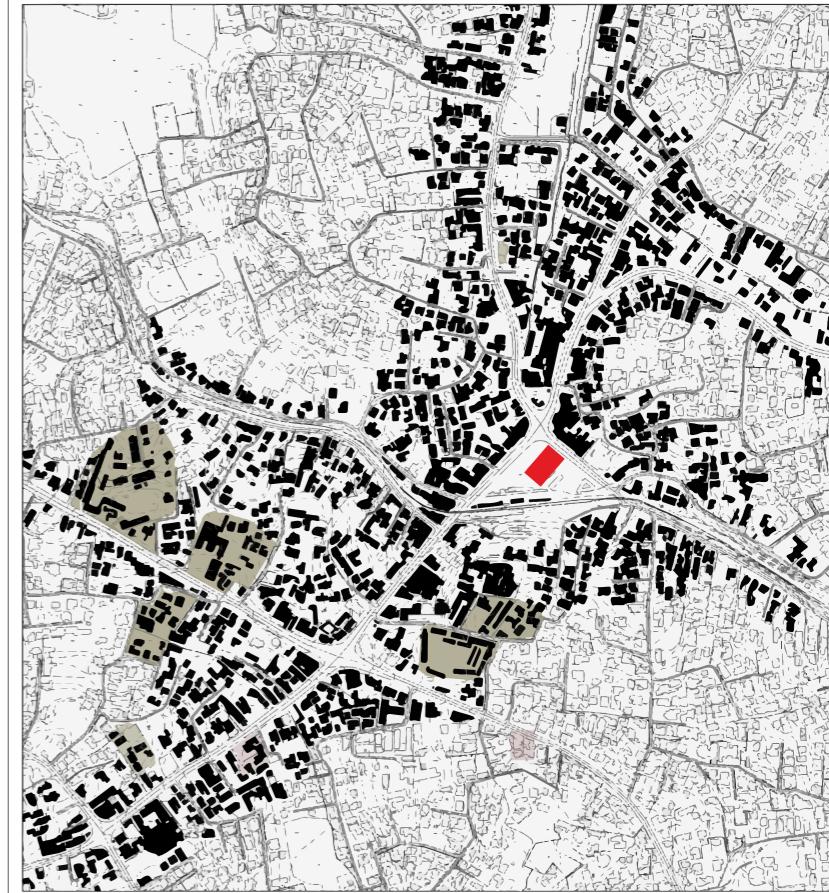
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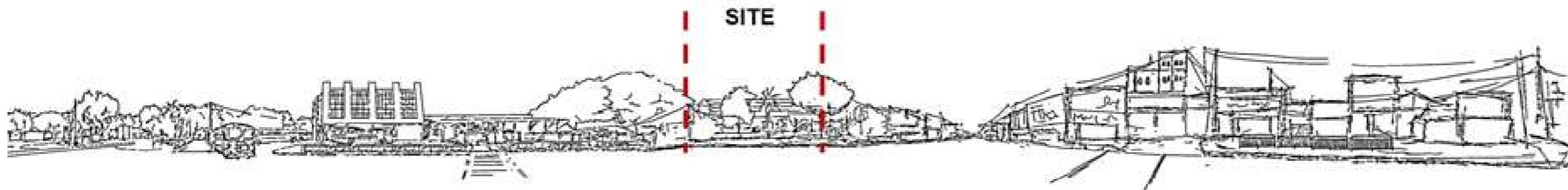
COMMERCIAL OPEN SPACES

LAND USE MAP



NOLLIMAP

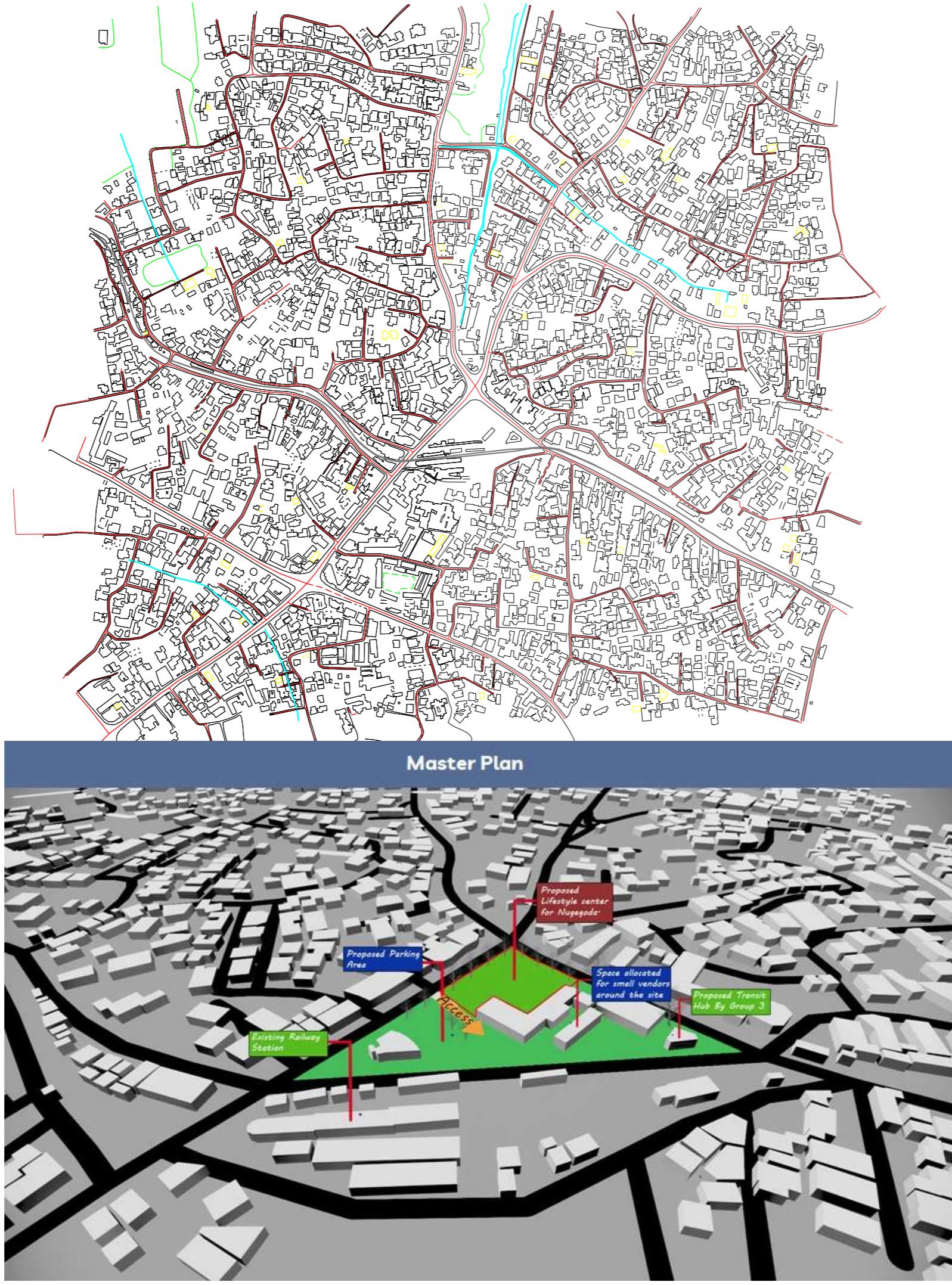




STREET ELEVATION



PROPOSED MASTERPLAN



CLIENT

BUSINESS DEVELOPMENT CENTER - SRI LANKA

Business Development Centre (Pvt) Ltd abbreviated as (BDC) is one of the most reputed business and management focused Training and Consultancy organization with a broad spectrum of professional capacity.



VOCATIONAL TRAINING

Experience to provide employment guaranteed vocational training as an effective tool for unemployment and underemployment issues.



TRAININGS & WORKSHOPS

BDC has gained a reputation as a Centre of Excellence in providing professional training solutions in the broad areas.



SPECIALIST INTERNATIONAL SERVICES

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WORKFORCE MANAGEMENT

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RESEARCH & SURVEYS

BDC specializes in conducting research and surveys relevant to business and industry, industry and sector studies, mid-project, special projects...



CONSULTANCY

BDC offers impact-oriented consultancy services to public and private sector business enterprises and INGOs/ local NGOs. The firm has a...

USER ANALYSIS

PRIMARY USER

MEDIUM SCALE BUSINESSMEN

In the bustling area of Nugegoda, around 34% of the things happening there are related to businesses. Out of that, 20% are medium-scale businessmen who play an important role. Sadly, this community is often overlooked, but they are actually a vital part of Nugegoda's success. Let's take a moment to appreciate their hard work and contributions, as they shape the future of this thriving business hub.

Age	41	
Years	13.5	
Gender	73% Men	27%
Work life balance	38%	62%
Stress levels	69%	31%
Health-related issues	54%	46%
Financial stability	57%	43%
Personal fulfillment	65%	35%

PROBLEM IDENTIFICATION

The problem arises from the circumstances faced by businessmen in Nugegoda, resulting in a lack of certain elements crucial to their lives and businesses. Their quality of life is affected, and their businesses experience minimal growth. The city fails to provide them with a space to rejuvenate, take a break, and engage with the business community. Moreover, they lack the necessary support and guidance to develop their businesses by acquiring knowledge, skills, and futuristic experiences. Their daily routines are demanding and leave little room for refreshment. Additionally, the chaotic nature of the city and the absence of organization in the Nugegoda area contribute to the lack of a cohesive business community. There are a few businesses, but they are scattered and fail to come together to enhance the character of Nugegoda city.

CRITICAL ARGUMENT

By establishing a dedicated and accessible space that caters to the needs of businessmen while remaining open to the public, we can effectively address the challenges they face and create a transformative solution. This innovative approach not only provides a refreshing environment for businessmen to recharge and interact with their peers, but also offers an opportunity for the wider community to engage with and support local businesses. This inclusive space will serve as a catalyst for knowledge exchange, collaboration, and personal growth, enabling businessmen to overcome their limitations, enhance their businesses, and ultimately contribute to the overall development and character of Nugegoda city.

SOLUTION

By establishing a dedicated and accessible space that caters to the needs of businessmen while remaining open to the public, we can effectively address the challenges they face and create a transformative solution. This innovative approach not only provides a refreshing environment for businessmen to recharge and interact with their peers, but also offers an opportunity for the wider community to engage with and support local businesses. This inclusive space will serve as a catalyst for knowledge exchange, collaboration, and personal growth, enabling businessmen to overcome their limitations, enhance their businesses, and ultimately contribute to the overall development and character of Nugegoda city.

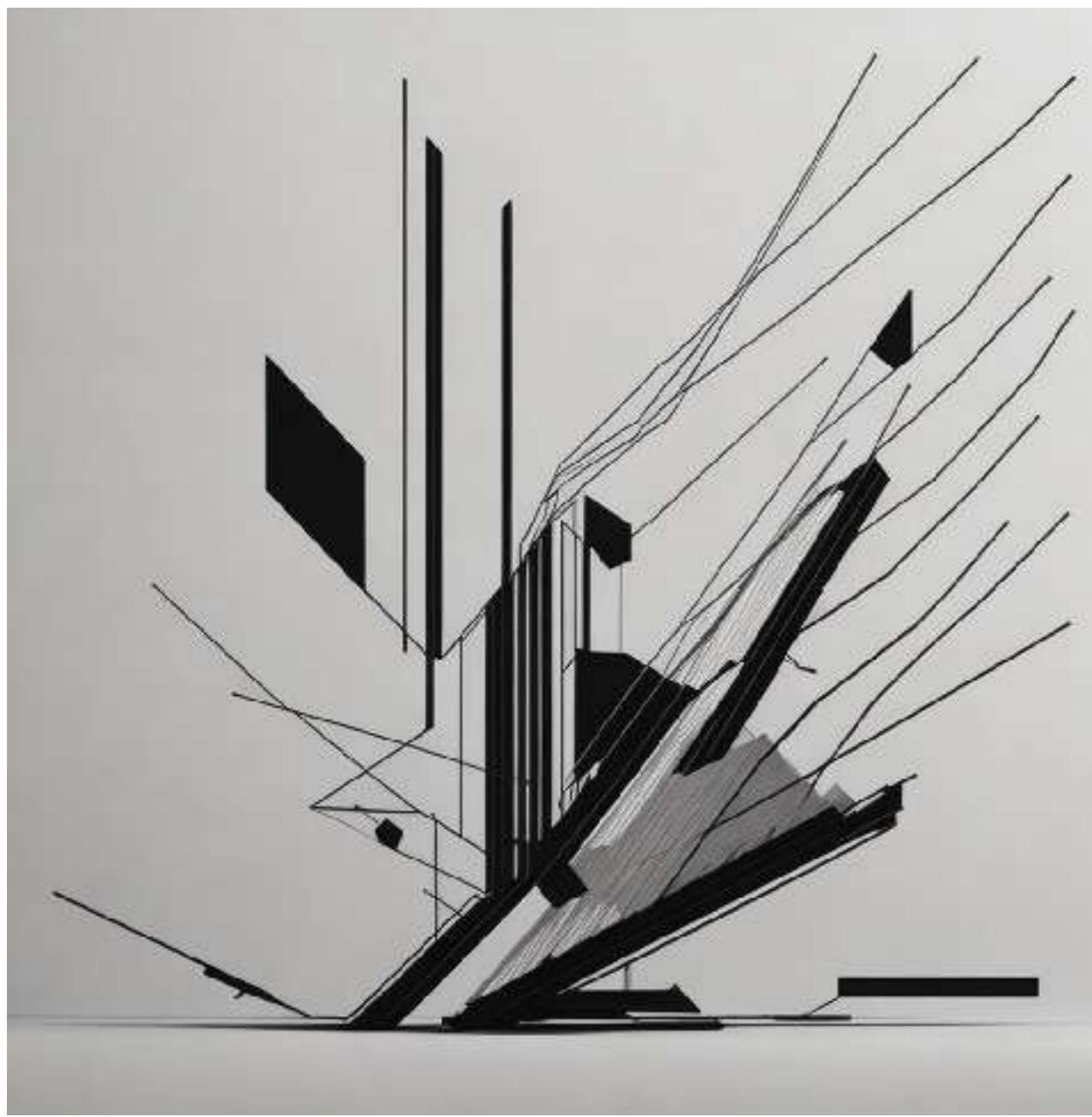
CONCEPT

REVITALIZING

"Revitalize" is like a powerful spark that brings new life and excitement to businessmen, the community, and the city of Nugegoda. It's a collective effort to make things better and more vibrant. And a special place where businessmen come together, share ideas, and get inspired to improve their businesses. This revitalization spreads to the community, as people support and enjoy the local businesses. The whole city starts to change, becoming lively and full of opportunities. It's an amazing transformation that brings energy, growth, and a fresh start for everyone involved.

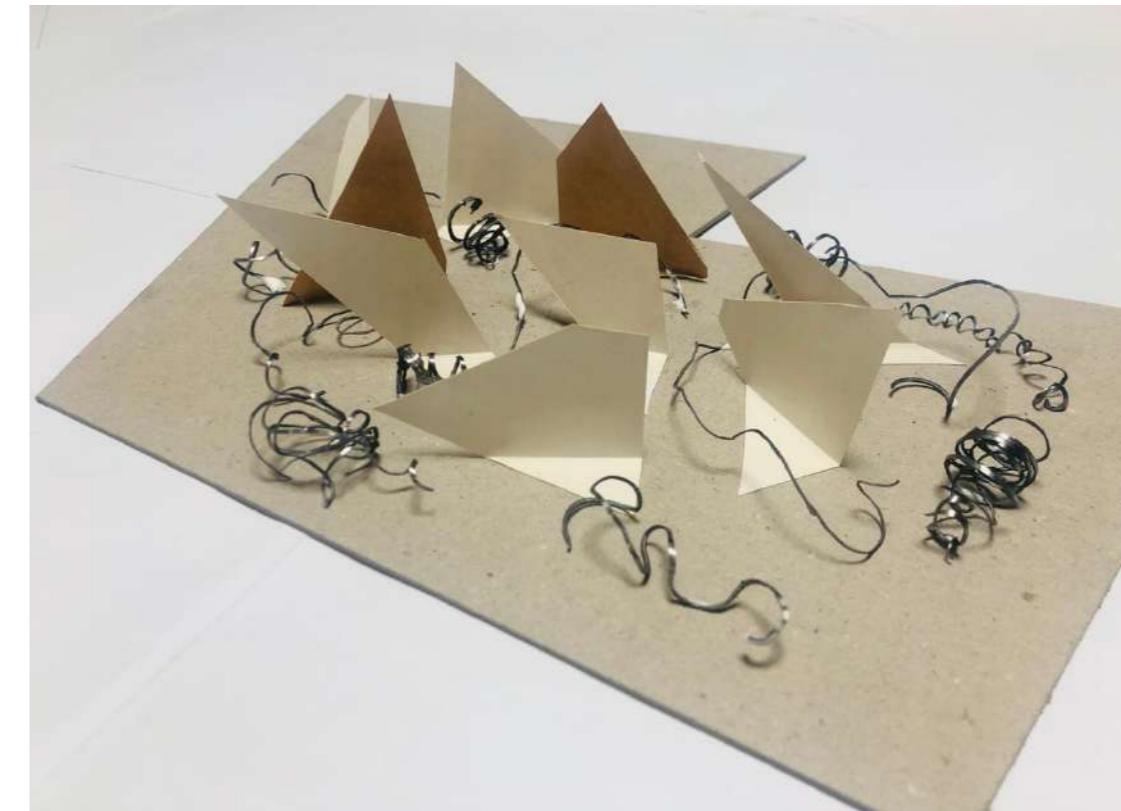


ABSTRACT

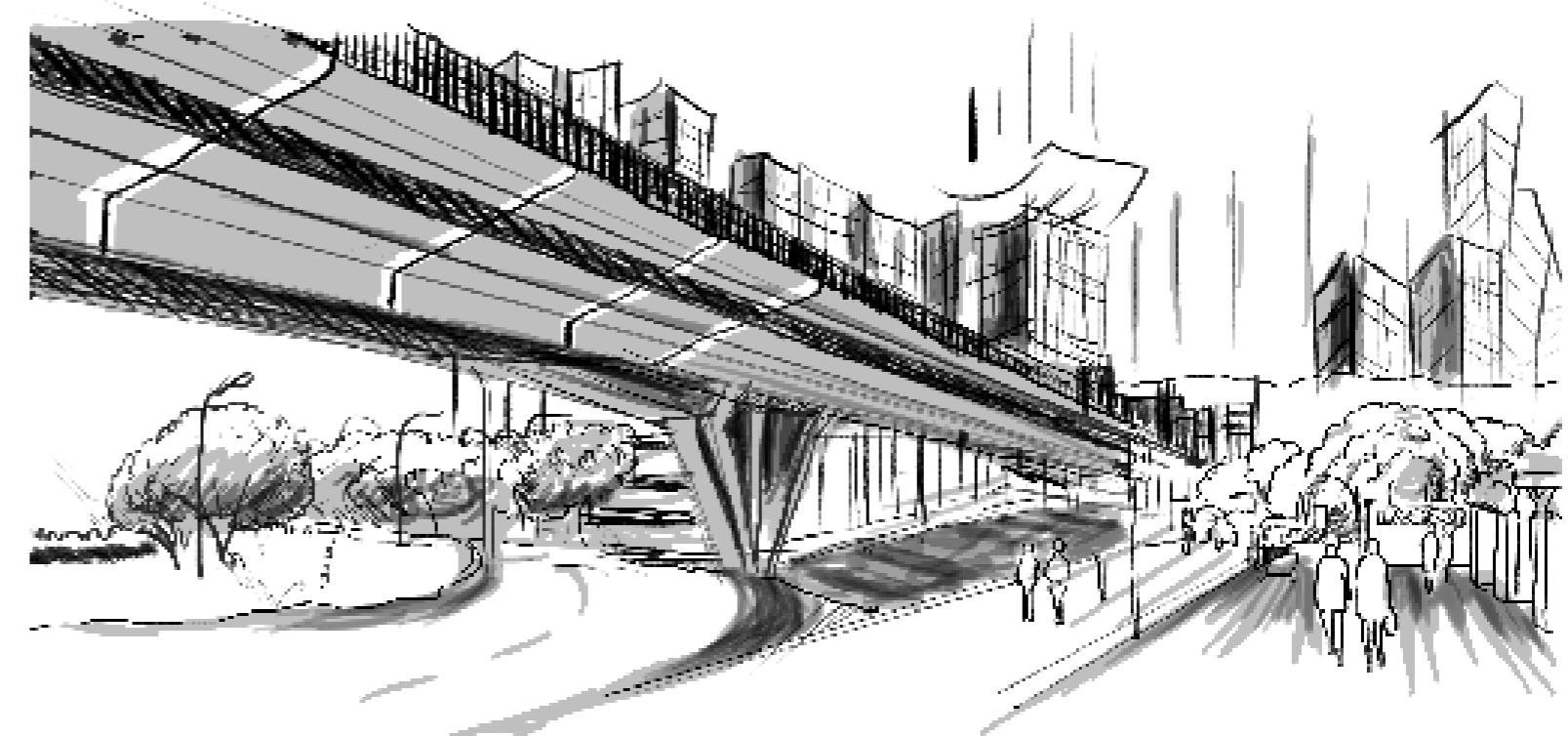


A messed up and mixed lines gradually becoming a shape.

Using several not organized or not managed existing aspects make enhanced something new which has well organized and managed proper directions.

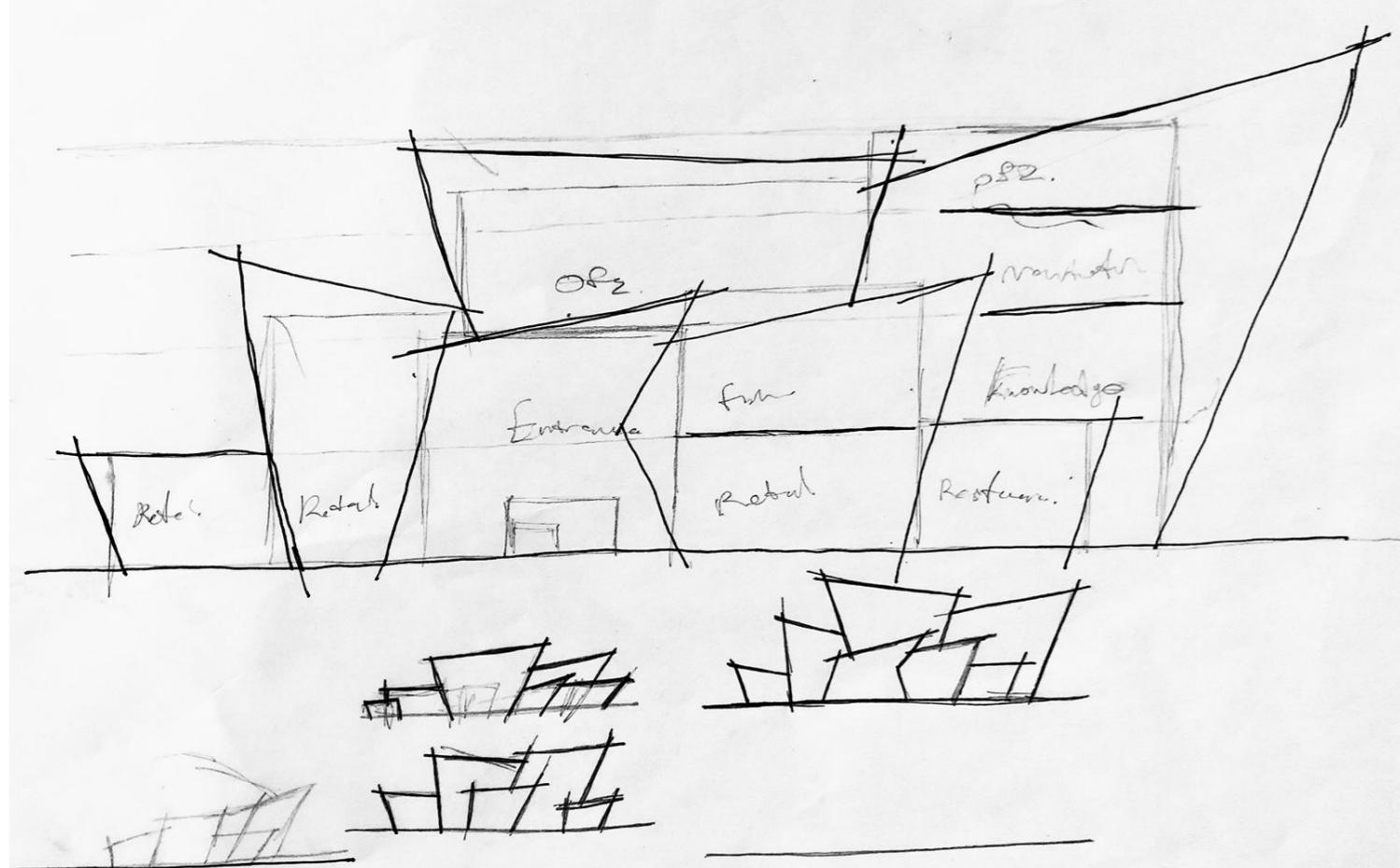
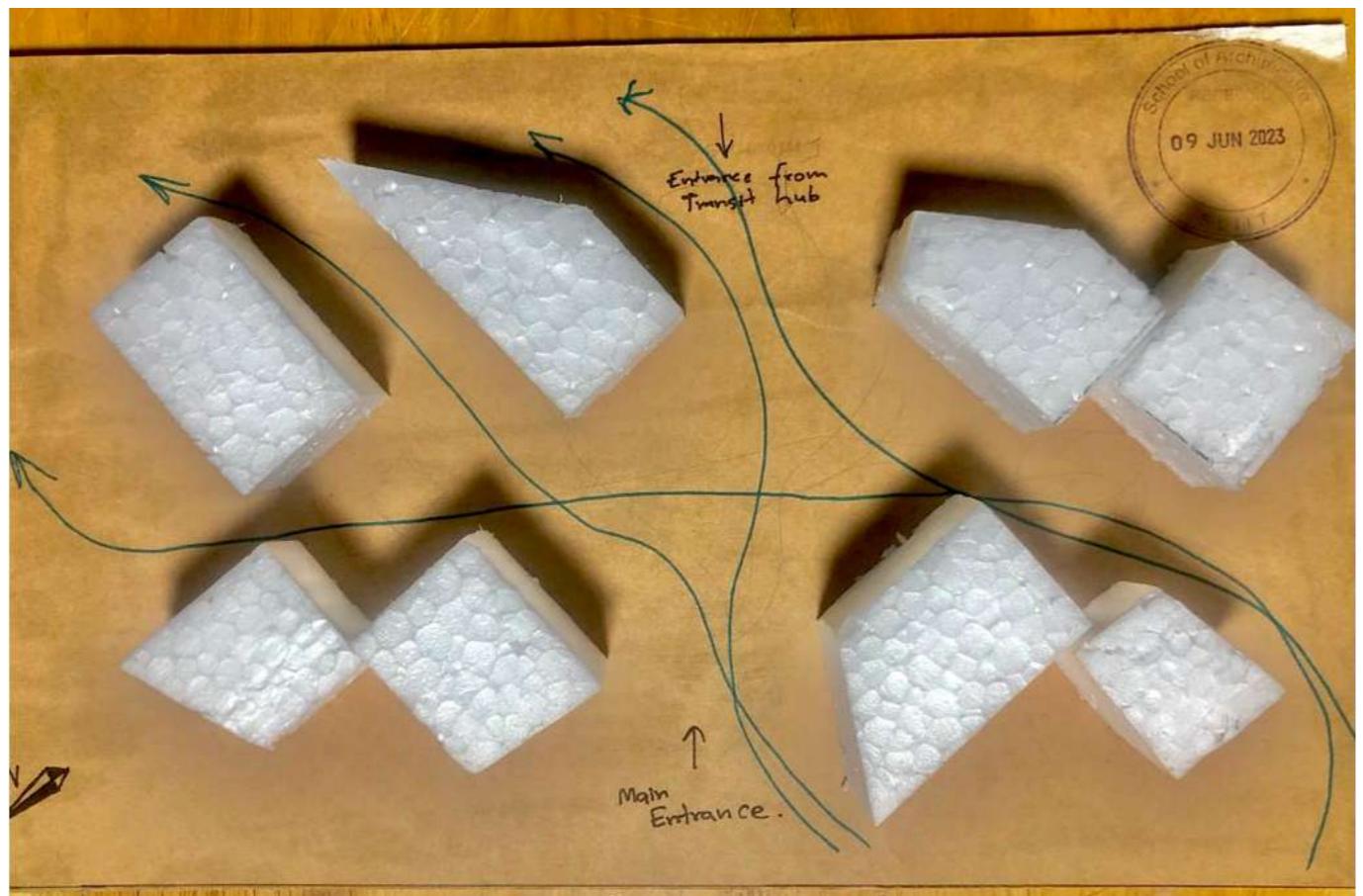


INSPIRATION



FLYOVER

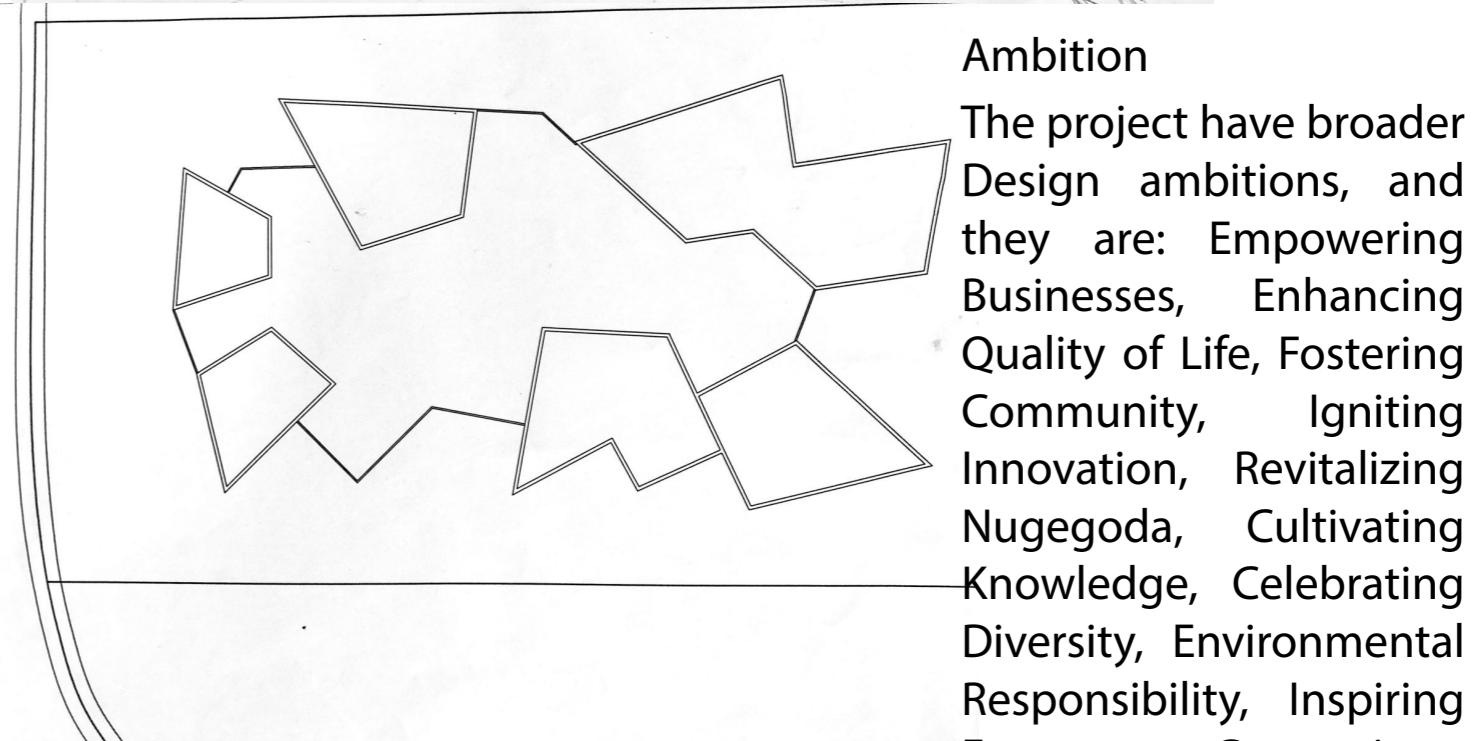
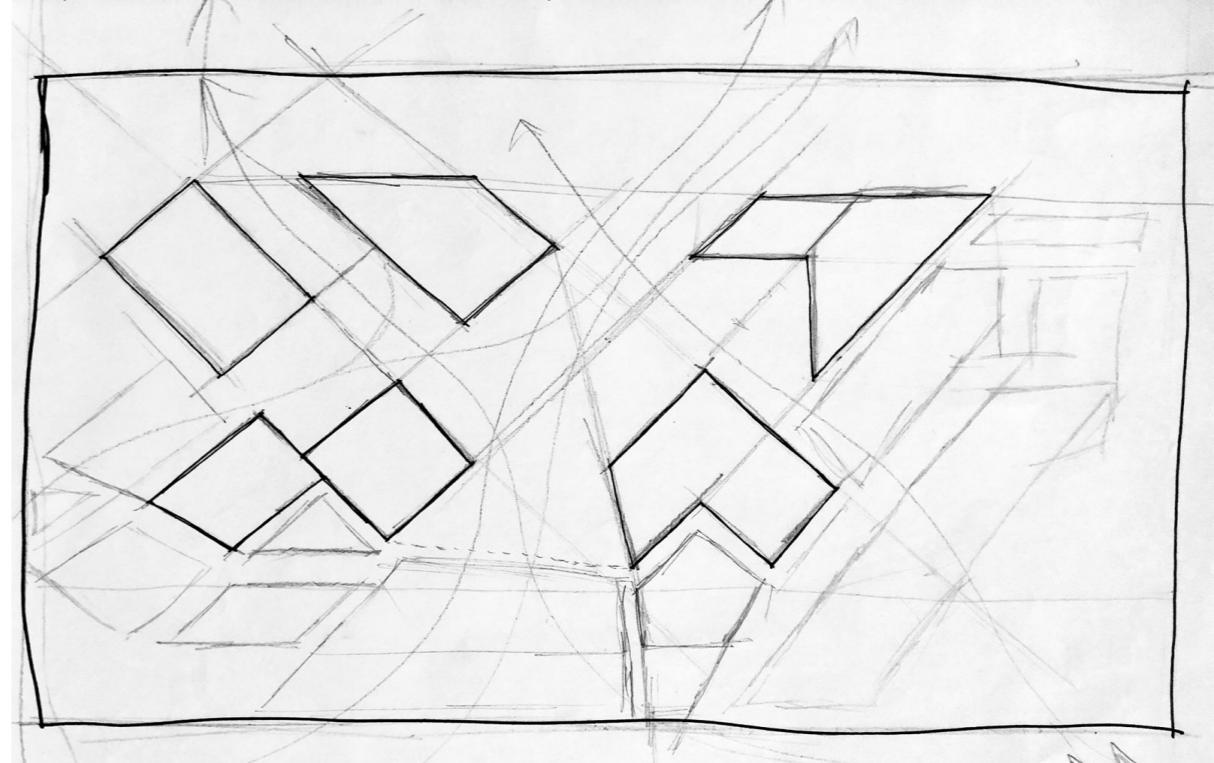
DESIGN DEVELOPMENT



In the section also should Represent hierarchy and Want to blend the activities vertically as well.

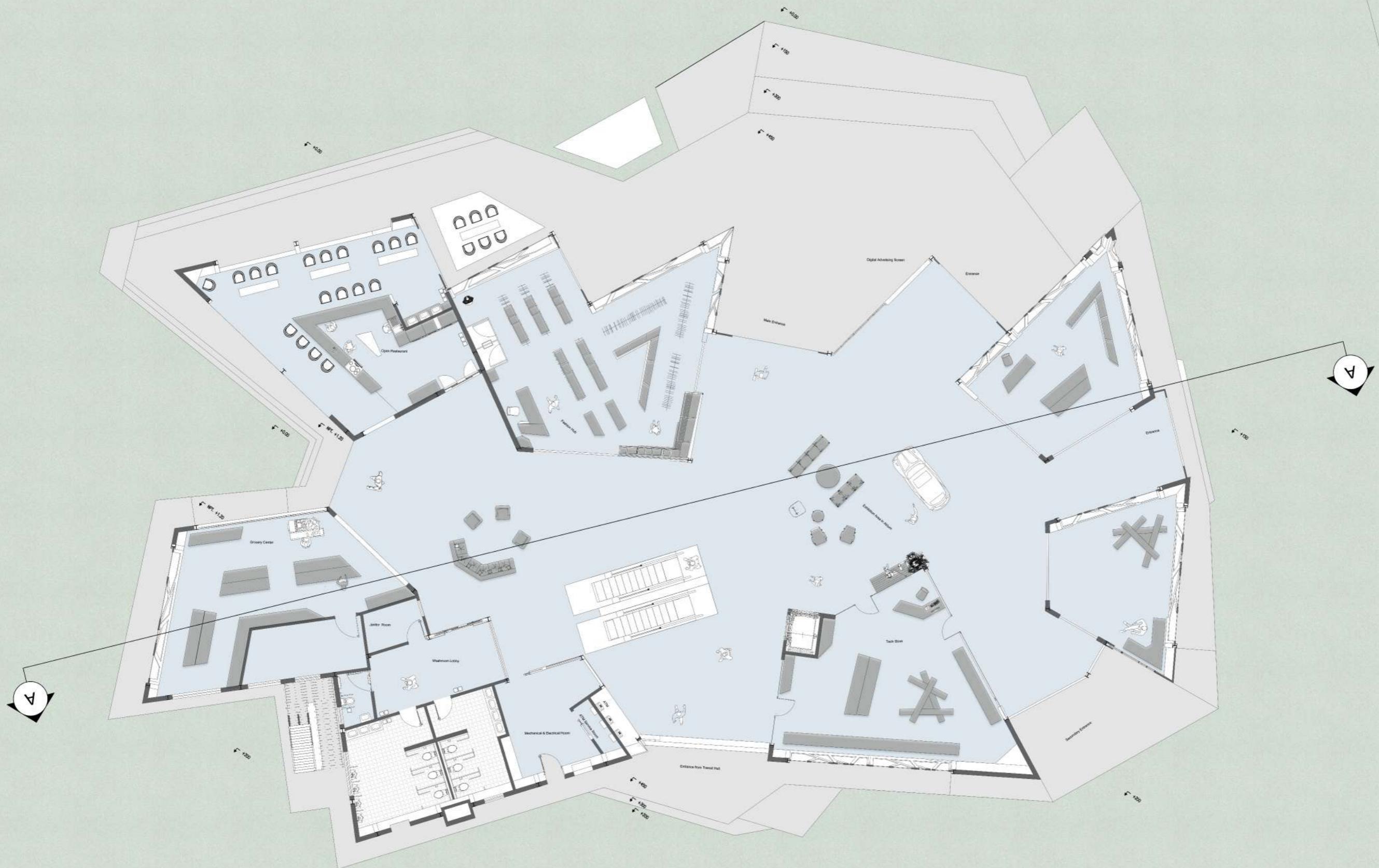
The main idea originated with the location and movements through the site such as People, wind and sun. Also needed to respond every side of the site attractively because the design should invite the surrounding context and within the immediate context have many medium scale businesses.

Then made the project more contrast to be a pilot project for the city to upgrade their quality for the next level.



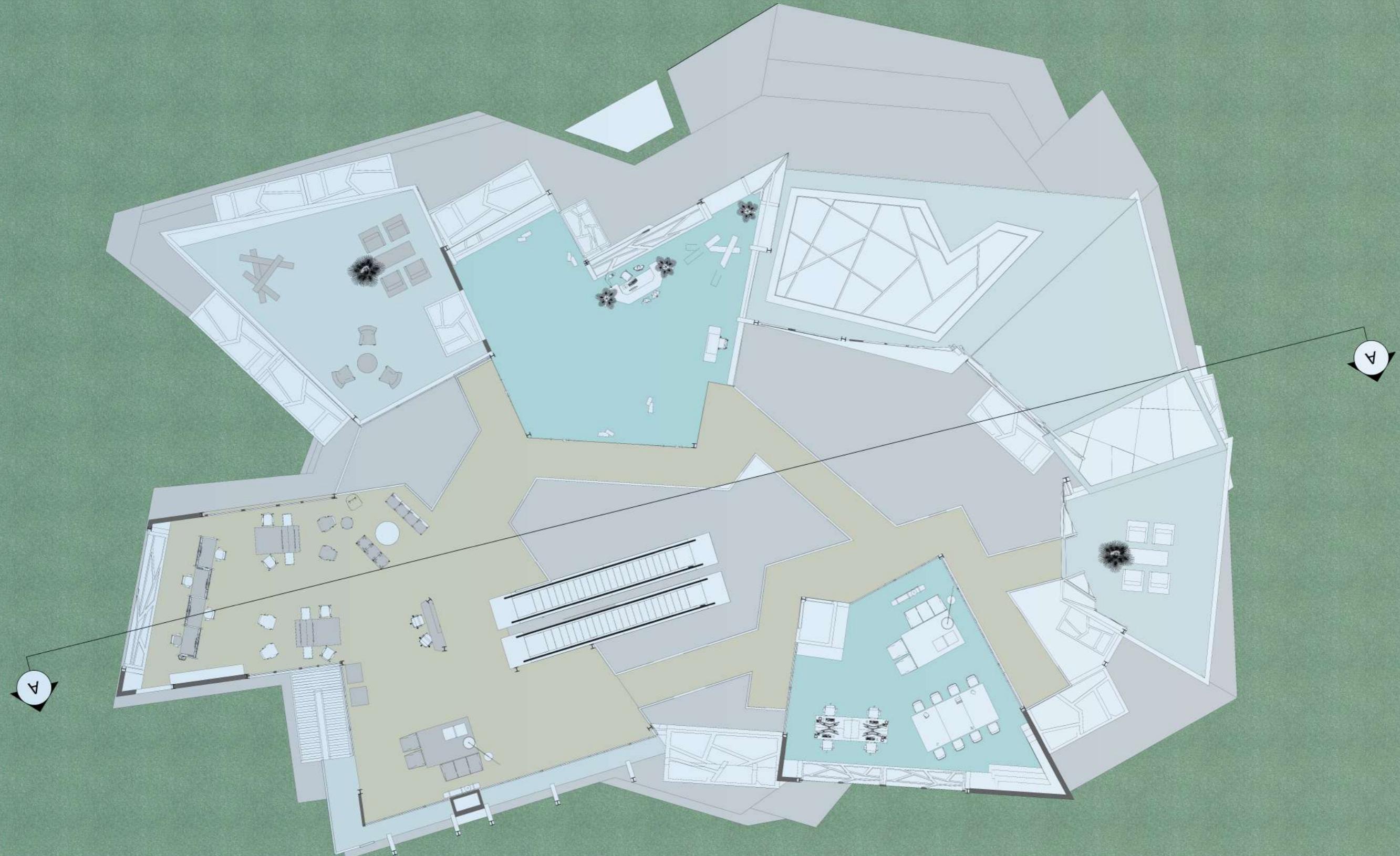
Ambition

The project have broader Design ambitions, and they are: Empowering Businesses, Enhancing Quality of Life, Fostering Community, Igniting Innovation, Revitalizing Nugegoda, Cultivating Knowledge, Celebrating Diversity, Environmental Responsibility, Inspiring Future Generations, Elevating Urban Experience.

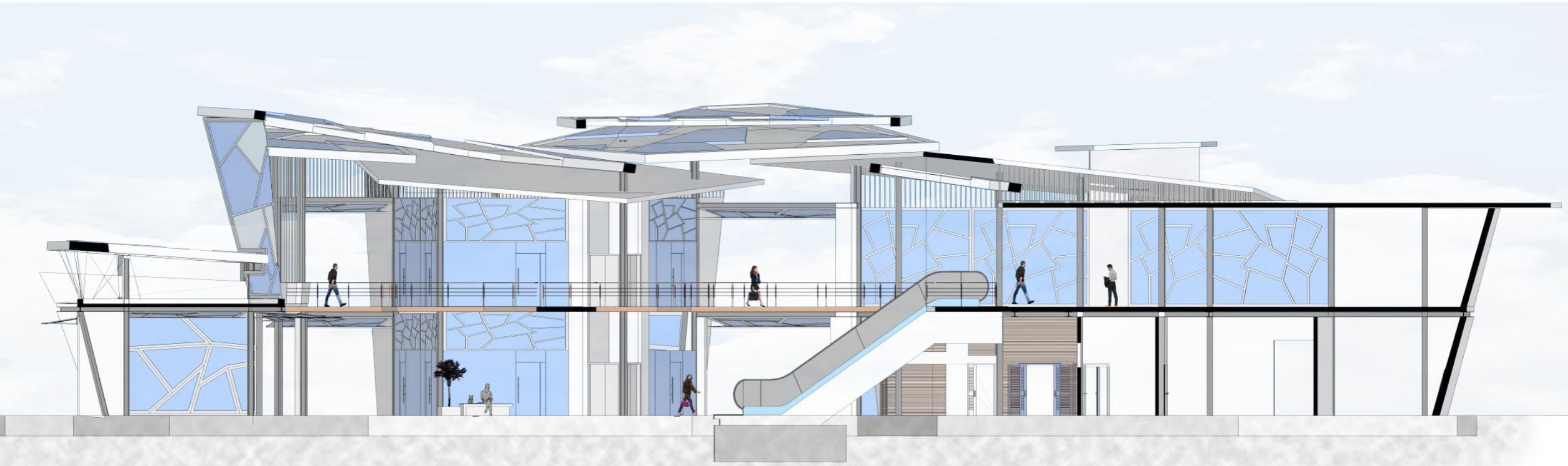


GROUND FLOOR PLAN

SCALE 1: 100



FIRST FLOOR PLAN
SCALE 1: 100



Junction

Pedestrian Path

Rooftop Garden
Retailing

Branding & Marketing Center
Atrium & Exhibition

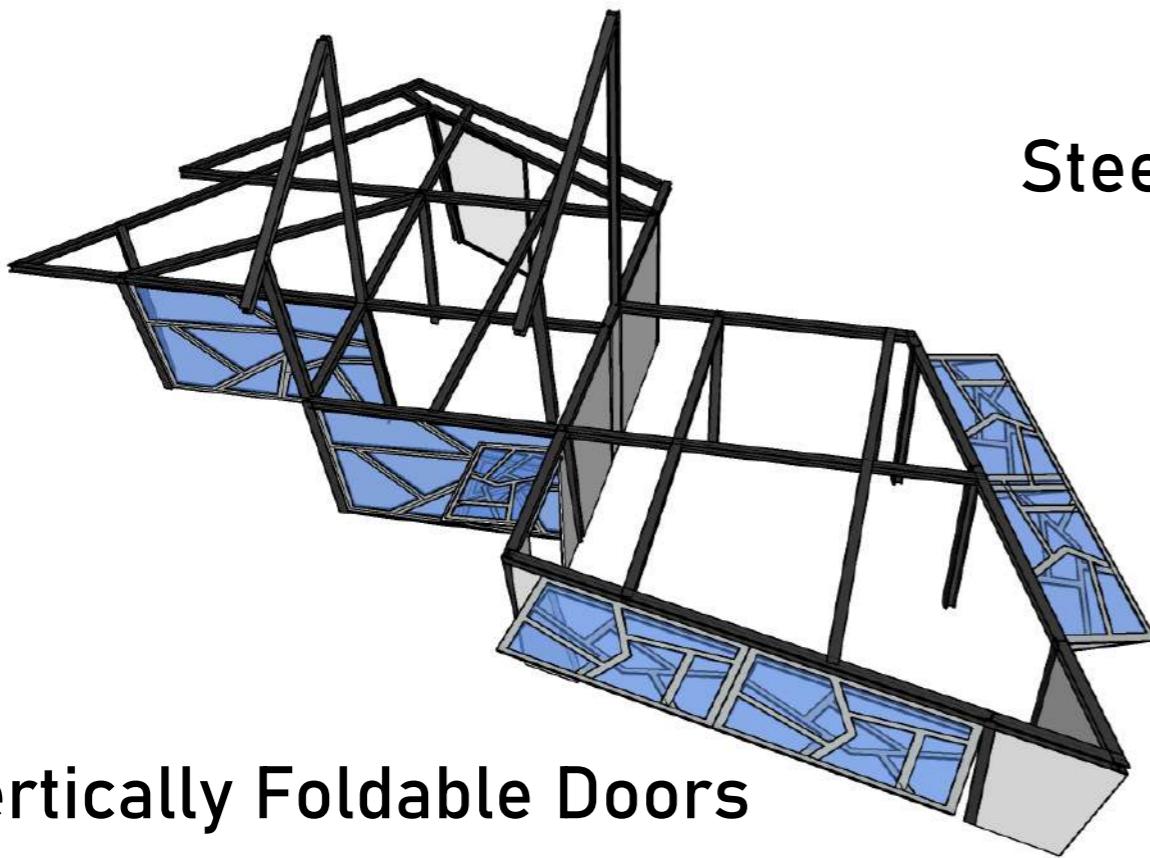
Business Lounge
Fashion Hub

Rooftop Gardens
Lobby & Co-Working area
Restaurant

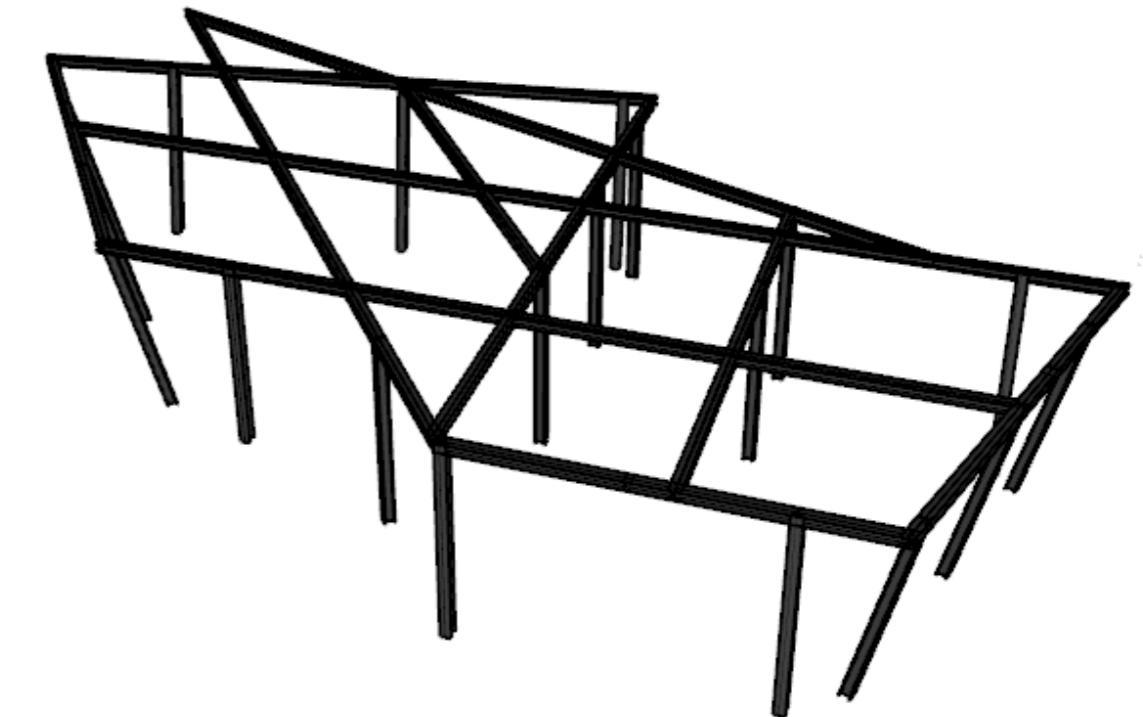
Outdoor Garden & Parking

Structure

L



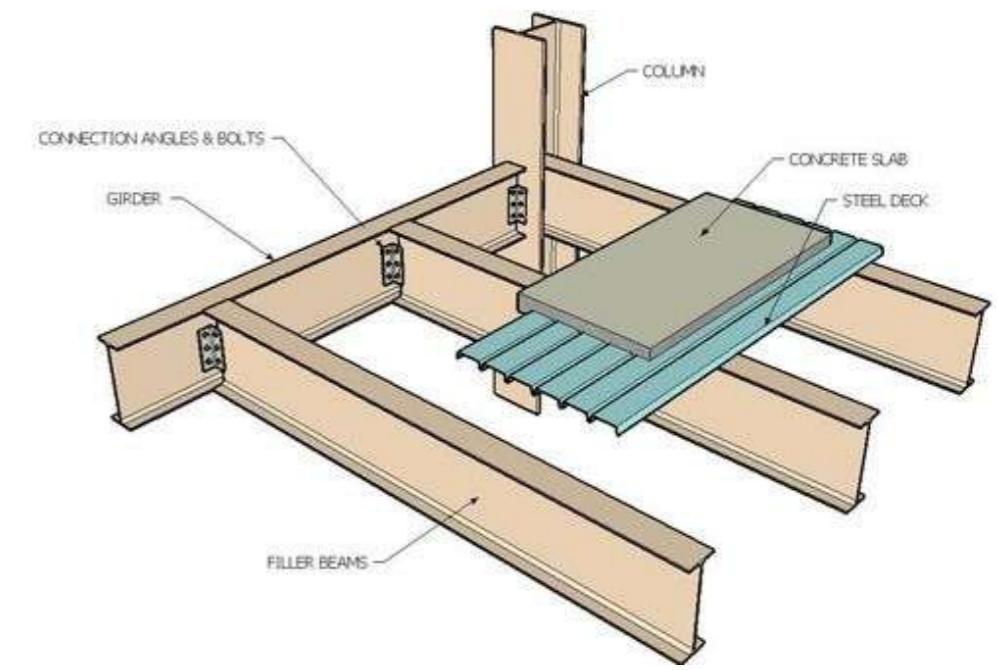
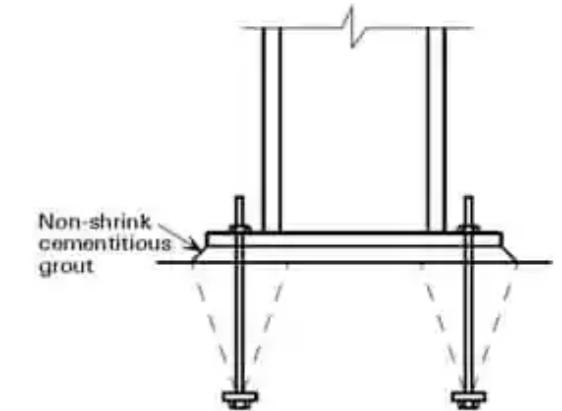
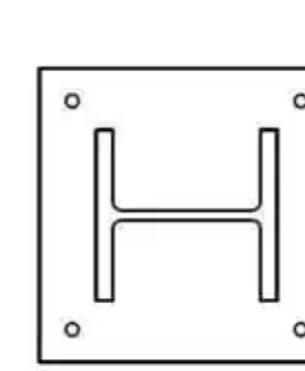
Steel Skeleton



Vertically Foldable Doors



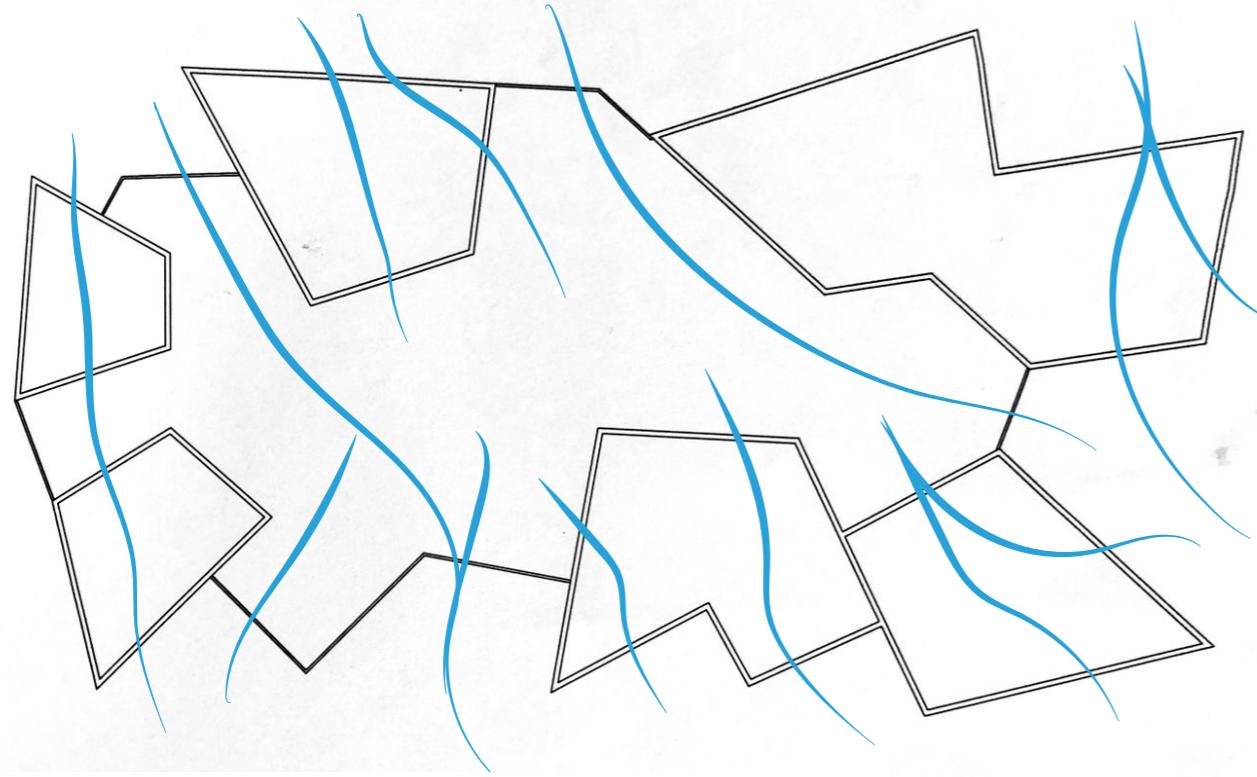
Steel Structure exposed to the interior,



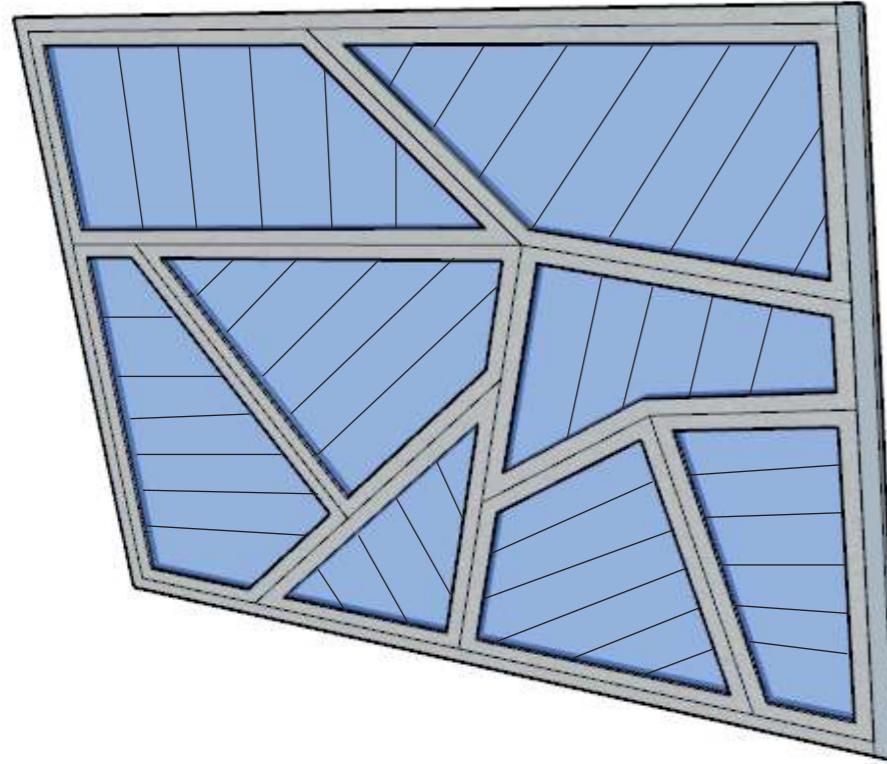
Cross Ventilation used As much as possible throughout the Building

Materials

Steel
Concrete
Glass
Aluminium Cladding
Timber



Automated Glass Louvers



Each glass hinged from the middle



Roof is Layered with different heights to allow the cross ventilation from the upper part of the building as well to cool the building naturally



Through the rooftop gardens and thick concrete walls [High thermal mass] also reduces the heat of the building



Aluminium cladding and Glass panals used as roof to get the diffused natural light into the main space.

More than 75% of building parts are pre construtable.



PRECEDENT STUDIES

Matrix ONE

MVRDV
OFFICE BUILDINGS

AMSTERDAM,
THE NETHERLANDS
Architects: MVRDV
Area: 13000 m²
Year: 2023



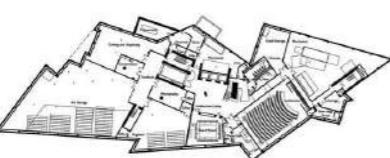
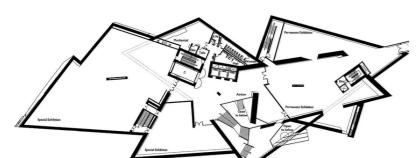
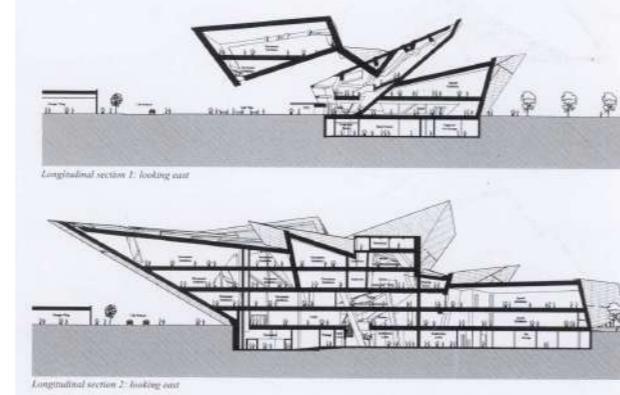
This social staircase is complemented by the building's amenities, with a ground-floor restaurant and a bar at the top of the staircase. These social features form "Club Matrix", available for use by workers from all of the surrounding Matrix buildings. The building also includes a 100-seat auditorium, confirming Matrix ONE as a central hub for creating and sharing knowledge.



Matrix ONE encourages users to lead a healthy lifestyle: the location of the social stair encourages people to use the stairs instead of the elevators, which are found deeper inside the building, accessed via the atrium. On the rear of the building, a secondary entrance includes access to a bicycle parking facility that is directly accessible and visible from the atrium, encouraging those who work in the building to cycle instead of driving. As a result of all of these sustainability and health measures, the building has received BREEAM-Excellent certification.



Architects: Studio Libeskind
Location: Denver, United States
Area: 146000 ft²
Year: 2006



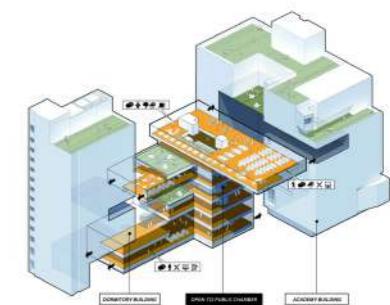
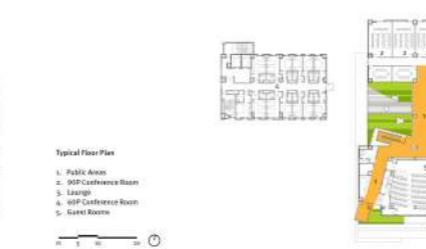
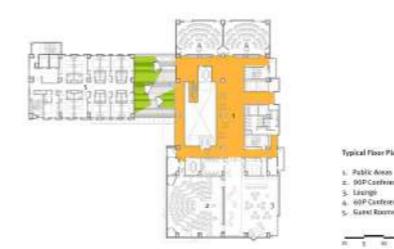
NCCU Center for Public and Business Administration Education JJP Architects & Planners

UNIVERSITY

DA'AN DISTRICT, TAIWAN
Architects: JJP Architects & Planners

Area: 26949 m²

Year: 2021



Situated within a vibrant mixed-use neighborhood, the project condenses the essential functions of the university onto a site that is 100 times smaller than its suburban main campus. Thus, the horizontal axis arrangement of the main campus is turned into a vertical orientation. The program elements are then configured and stacked using a modular grid system and split into two volumes. One volume houses the academic and conference elements and is clad in stone, while the other comprises 100 guest rooms with an exposed concrete facade. In between, a series of transparent volumes, namely the lobby, atrium, and cafe, project the center's inner workings to the city beyond.

Navigator Sales Center Sales Center by Kris Lin

PRIMARY FUNCTION: Sales Center

INSPIRATION:

The original building is Tianjin Shipyard with history of one hundred years. It is the milestone in Chinese shipbuilding history and made great contribution to the navigation industry as industry leader of that time. For deep memory of history and respects to the original shipyard, we consider designing this project with the concept of navigator which means a large ship is sailing on the sea.

UNIQUE PROPERTIES / PROJECT DESCRIPTION:

Navigator is a large ship sailing on the sea which is closely related to water. With the exterior waterscape, the artistic building looks like a large ship sailing on the sea from afar. LED light strips on the ship reflect by the water and form perfect mirror image which adds dreamlike beauty to the space. Combination of architecture and landscape forms the waterscape of modern large ship of future science and technology.



SPECIFICATIONS / TECHNICAL PROPERTIES:

Architectural Area: 700 square Meters. In the original architecture, mock-up and sales office are in two separate buildings. The designer connects the two separate buildings together through a corridor and make them a complete one. We outline the profile of the ship with flow lines and attach the LED light strip based on the profile to present a large ship of modern times with future sense of science and technology. The designer also wants to present a pure artistic work with artistic flowlines and a large ship intent with both modern art and historical rudiment. The design rebuilds the sole of the shipyard with flexible and elegant lines.



OPERATION / FLOW / INTERACTION:

In the original architecture, mock-up and sales office are in two separate buildings. The designer connects the two separate buildings together through a corridor and make them a complete one. We outline the profile of the ship with flow lines and attach the LED light strip based on the profile to present a large ship of modern times with future sense of science and technology.

PROJECT DURATION AND LOCATION:
It is finished in Tianjin, China in 2018.

FITS BEST INTO CATEGORY: Architecture, Building and Structure Design

PRODUCTION / REALIZATION TECHNOLOGY:

In the building we used a matt exterior fluorocarbon paint and opaque wired glass. With bronze brushed stainless steel, the concept of the hull is revealed. Indoors, we use the design of the marine gray marble and the top lighting effect to show the good wishes of the indoor clear sky.

