



# **DESIGN OF A HIGH-RISE**

COURSE TITLE: DESIGN STUDIO VI

COURSE CODE: ARCH- 304

## **PRESENTATION BY:**

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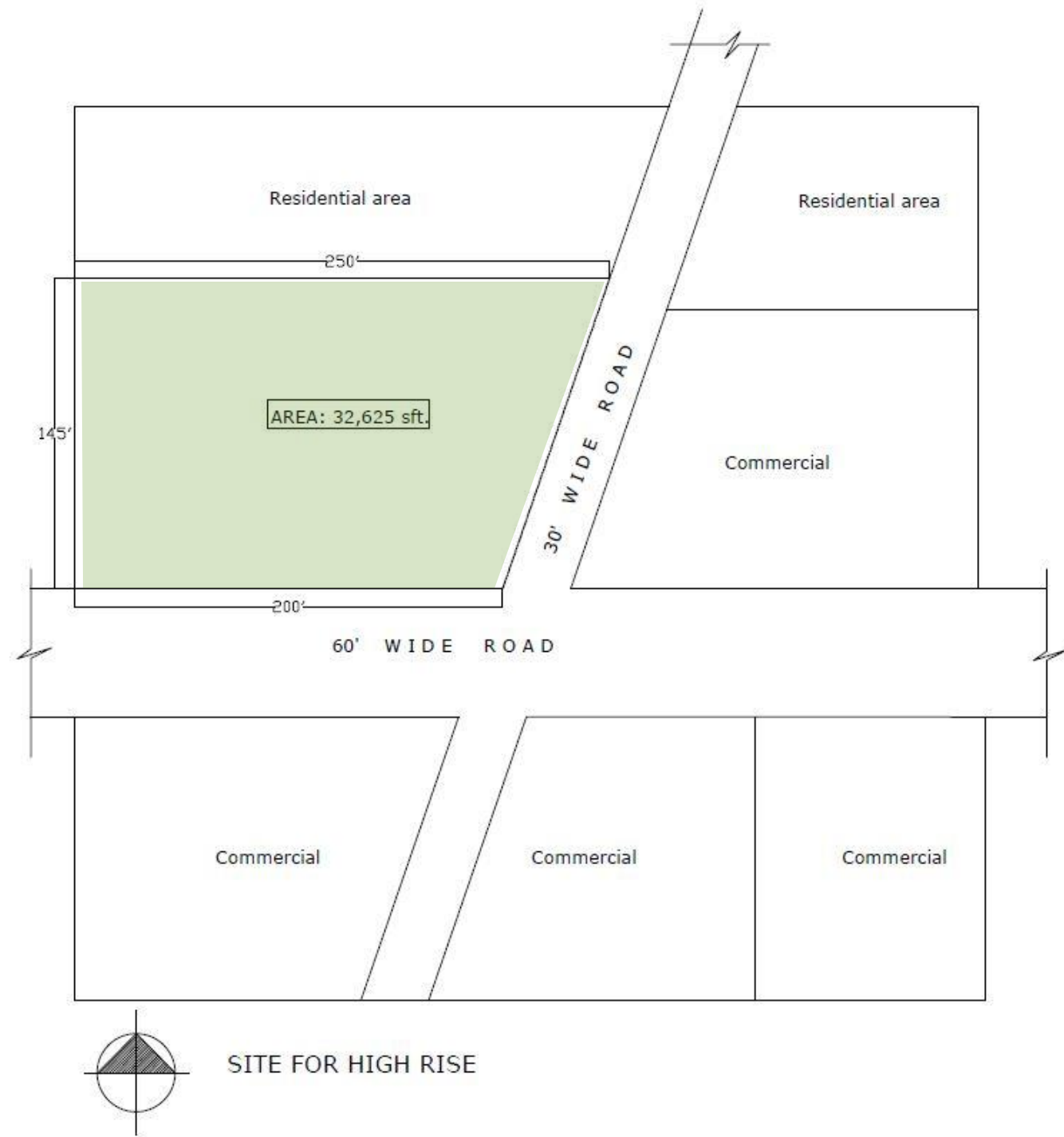
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Assistant Professor

Ar. Salina Akther  
Lecturer

**Department of Architecture  
Leading University, Sylhet.**

## SITE ANALYSIS

- This site is located in Sylhet city in Bangladesh.
- 30' wide road at the east and 60' wide road on the south side.
- Commercial building is located on the south side.
- Commercial and residential building are on the east side.
- Residential zone on the north side.
- South side is mostly noisy.
- East and north side is less noisy.



## REQUIREMENTS

Total sqft.: 32625 sq. ft.

- Max ground Coverage (MGC) 50%
- Pure or Soak able Green 25%
- **PODIUM**
  - Ground Floor: 16000-18000 sft
  - 1st Floor to 4th Floor: 16000 sq. ft. (Max.)
  - Total: 80,000- 82,000 sq. ft.
- **TOWER**
  - 5th to 34th Floor: Office+ Sky restaurant in top floor: 9000-12000sft.

## PROPOSED AREA

- **PODIUM**
  - Total: 83,329 sq. ft.
- **TOWER**
  - 5<sup>th</sup> floor- 8450 sq. ft.
  - 6<sup>th</sup> floor- 8960 sq. ft
  - 7<sup>th</sup> floor- 9150 sq. ft.
  - 8<sup>th</sup> floor- 9000 sq. ft
  - 9<sup>th</sup> floor- 8500 sq. ft
  - 10<sup>th</sup> floor- 7700 sq. ft
  - Pure or Soak able Green 27%

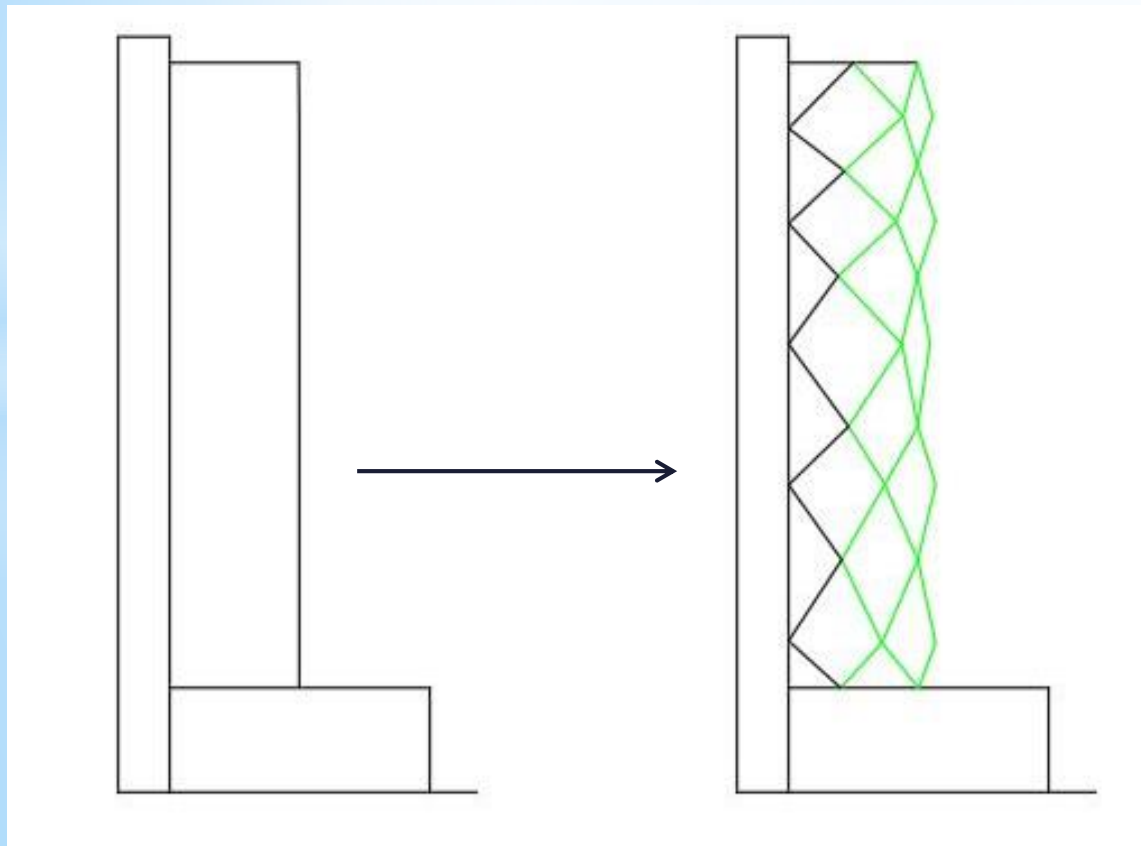
## PROGRAM LIST

- **PODIUM**
  1. Super shop
  2. Showroom (4 nos.)
  3. Shop (200-220 nos.)
  4. Gym (Male & Female)
  5. ATM 2 nos.
  6. Food court
  7. Multipurpose Hall (150 person )
  8. Washroom (male & female)
  9. Parking (as per sq. ft.)
- **TOWER**
  1. Office 3 or 4 nos. (per Floor)
  2. Sky Restaurant (Top Floor)
  3. Core

# DESIGN CONSIDERATIONS

## “Vertical Green Screening”

To Design an iconic tower of Sylhet by enhancing nature, to create an vertical green screening.



A typical High-rise

Vertical green screening

## ASPECTS

### Aesthetical

- High-rise of a solid box pattern creates visual discomfort.
- Green Screening creates a mental smoothing.
- Also highlight the building aesthetically.

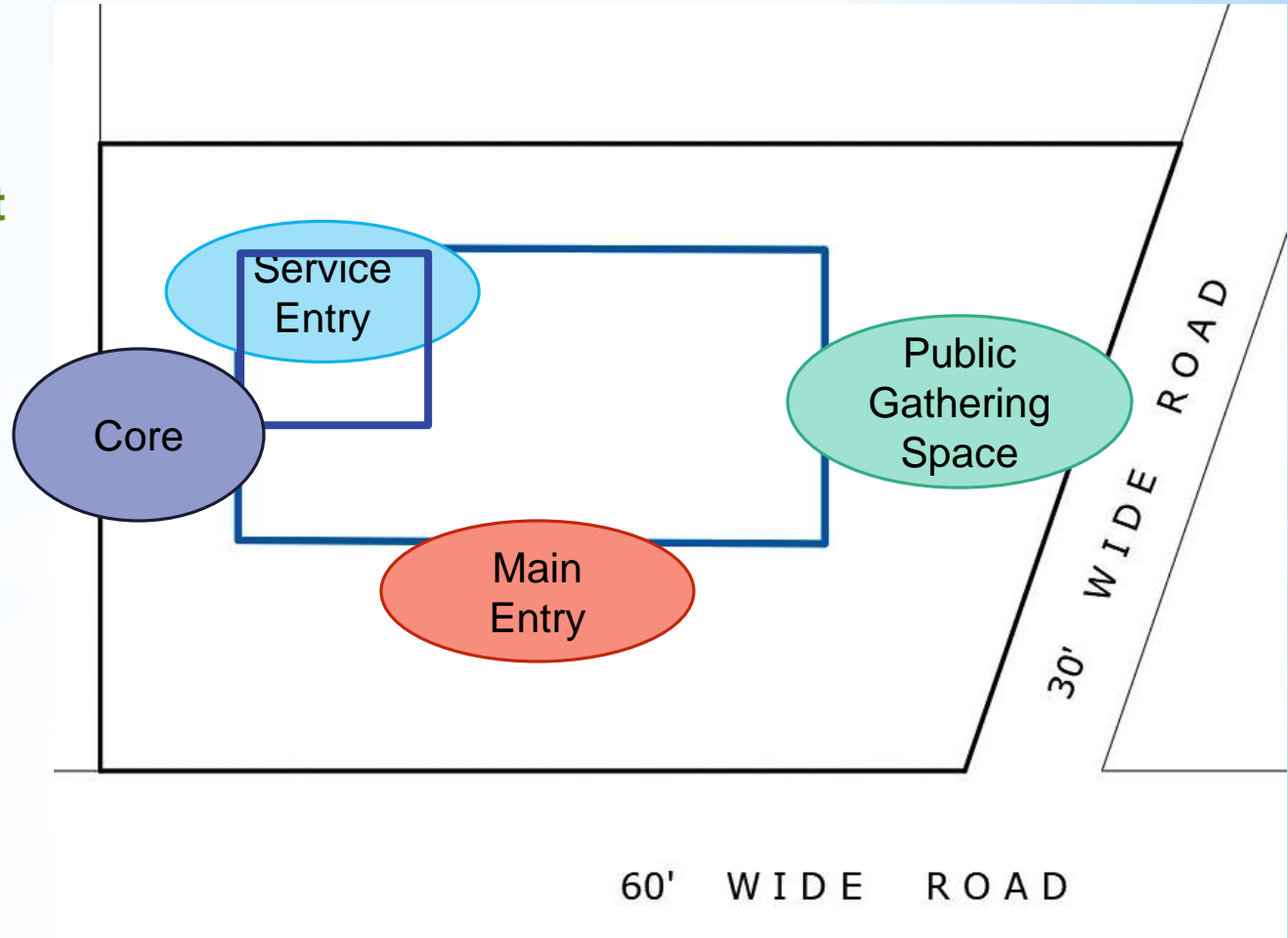
### Functional

- Sunlight in glass creates glare and Glare has a negative impact on occupants, causing a sensation of annoyance and causes environment pollution.
- Keeps the environment cool.

# DESIGN CONSIDERATIONS

## ➤ Site

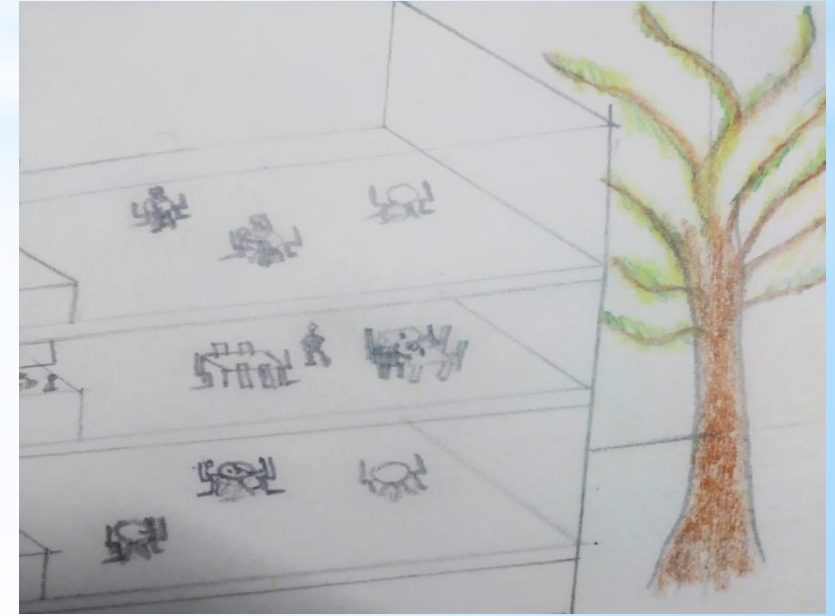
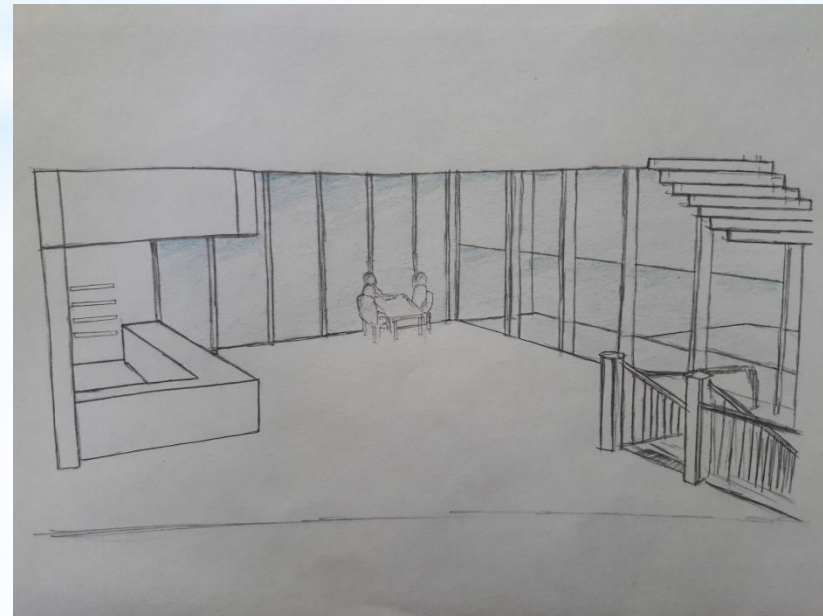
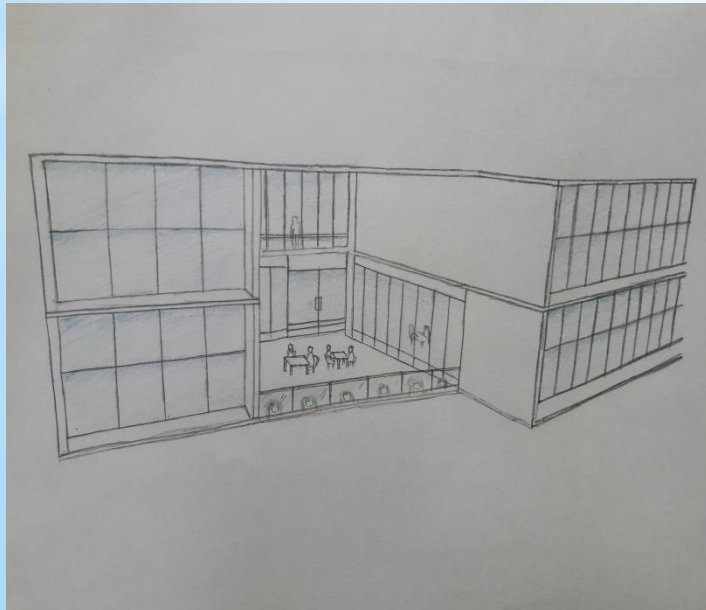
- Every side has its own purpose in which it is efficient.
  - Main entry of this building is in South side.
  - A public gathering space is in East side.
  - Solar panel is located in south side & core is located in west side.



# DESIGN CONSIDERATIONS

## ➤ Podium

- Food court in every floor of Podium.

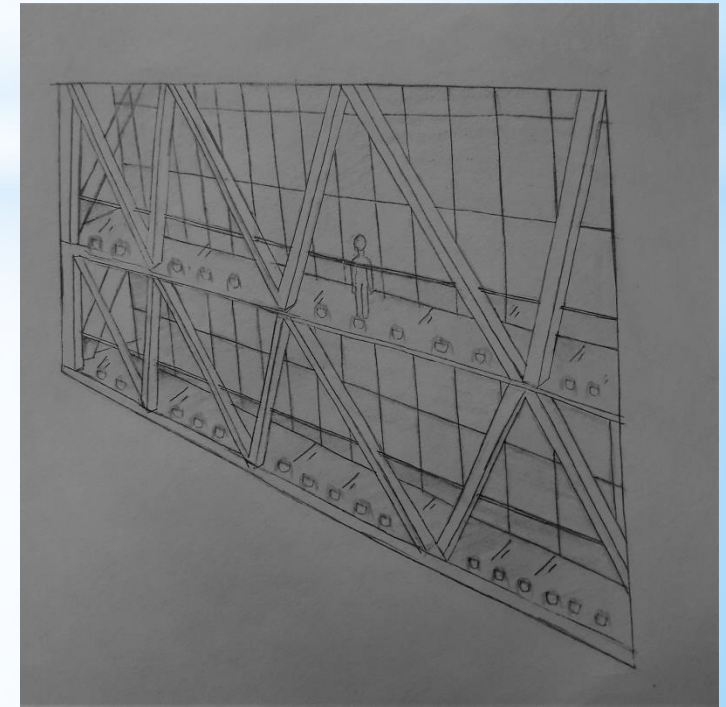
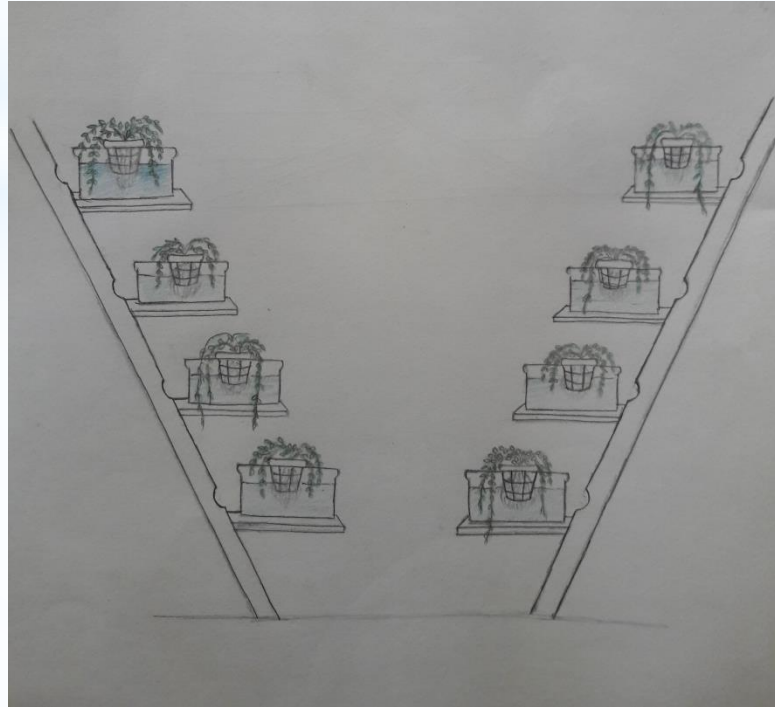
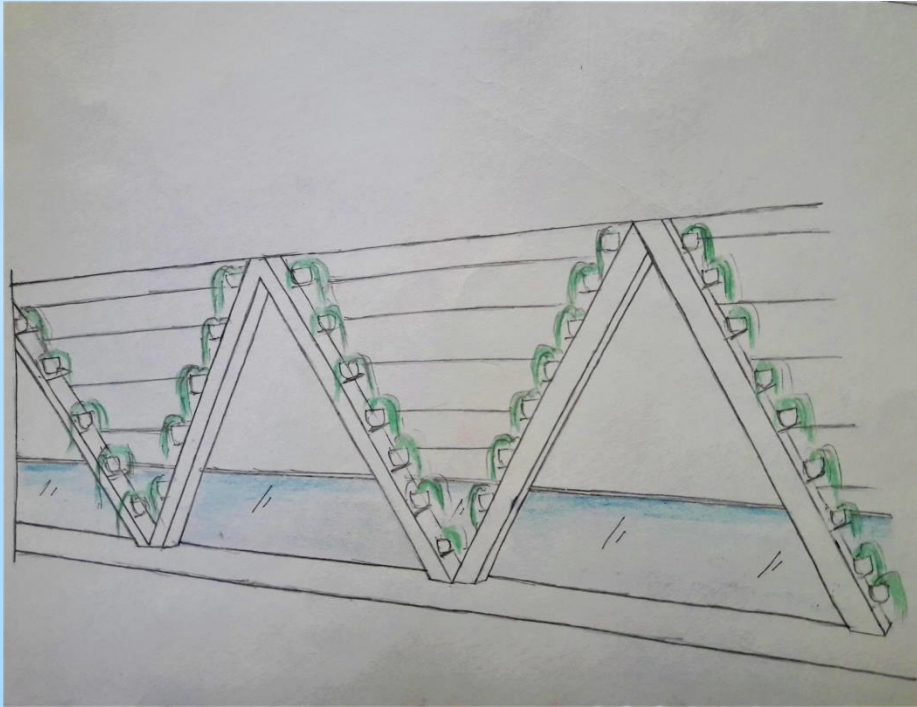
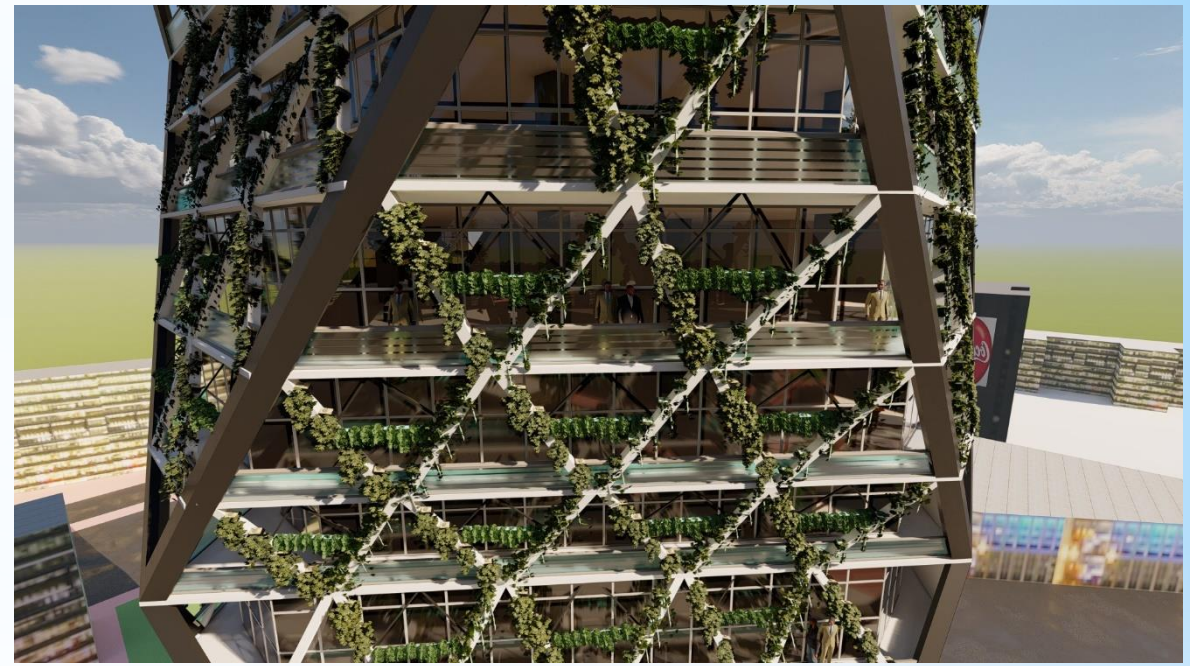


# DESIGN CONSIDERATIONS

## ➤ Tower

- **Vertical Garden**

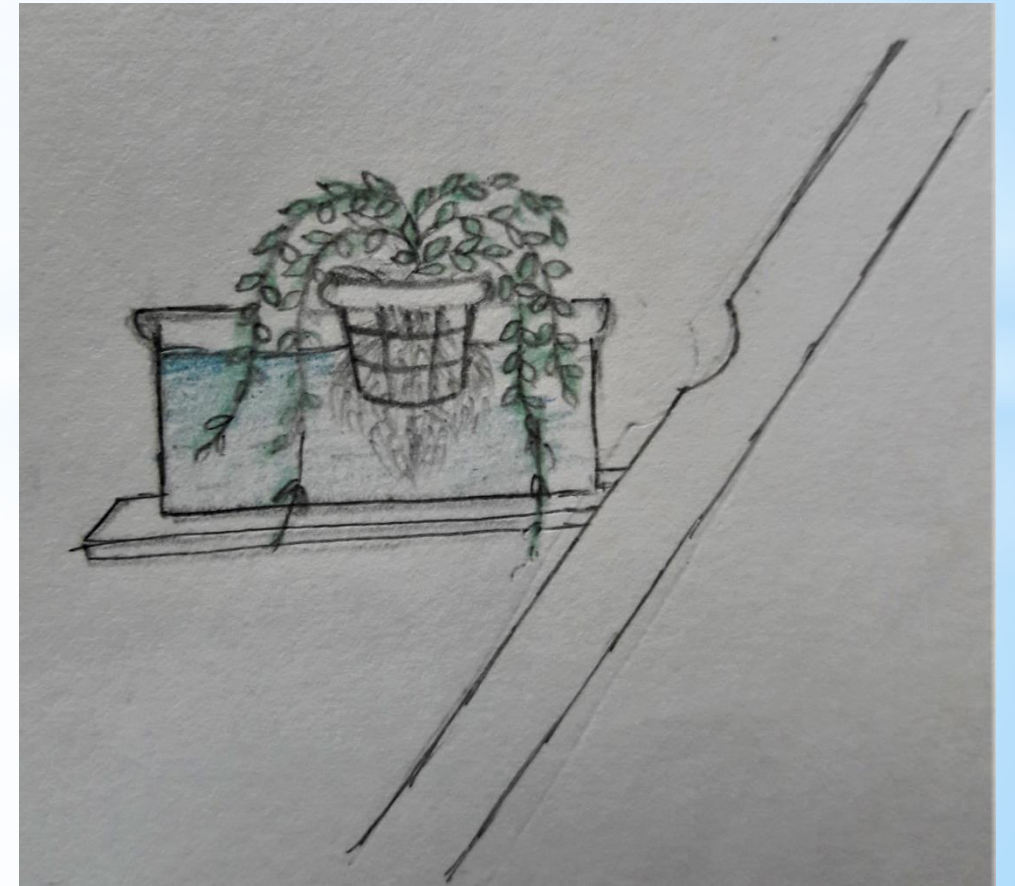
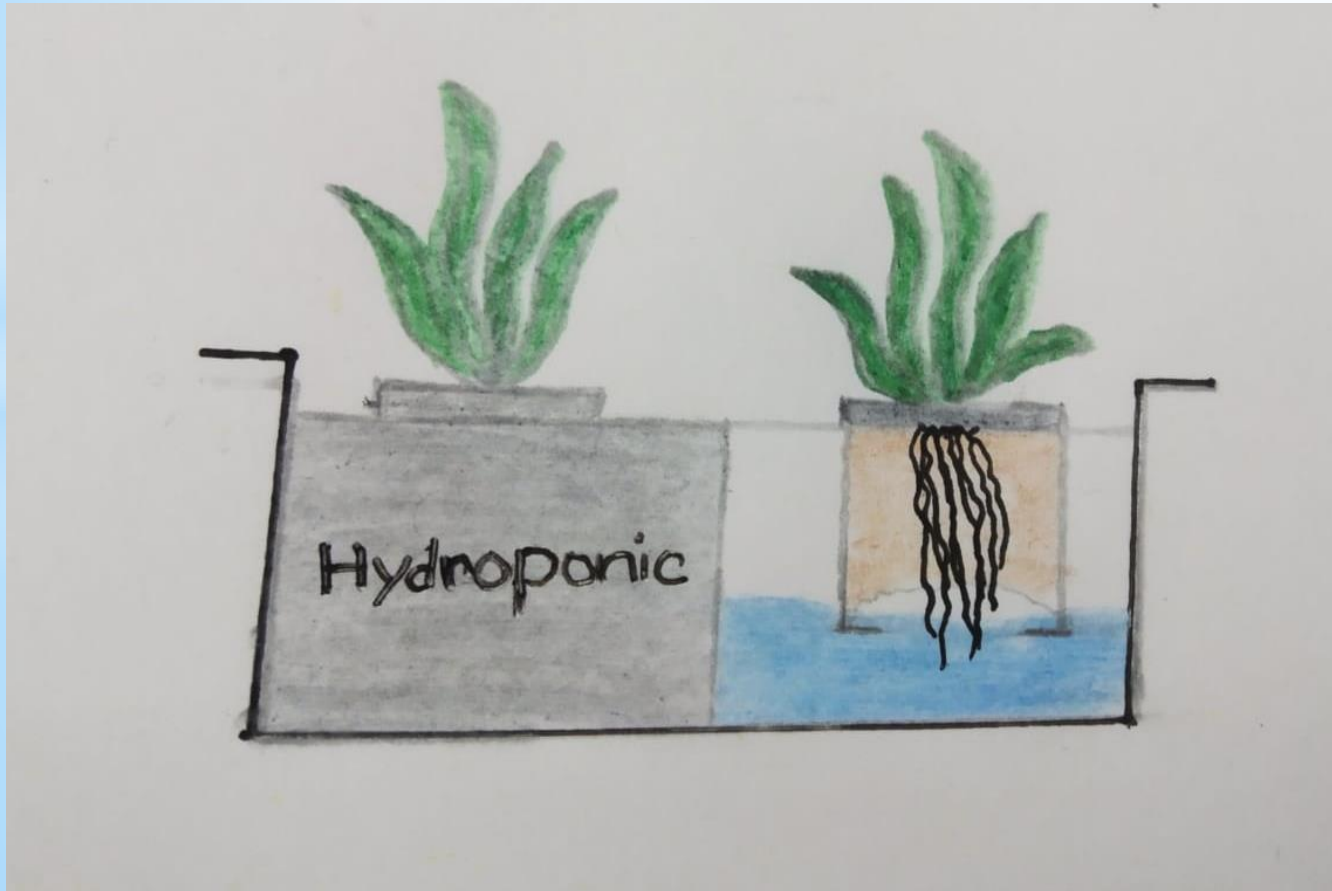
I have used a system called hydroponic to make the building sustainable for environment which facilitates auto-recycling process. The vertical greens are fixed with vase.



# DESIGN CONSIDERATIONS

## ➤ Tower

- Hydroponic System

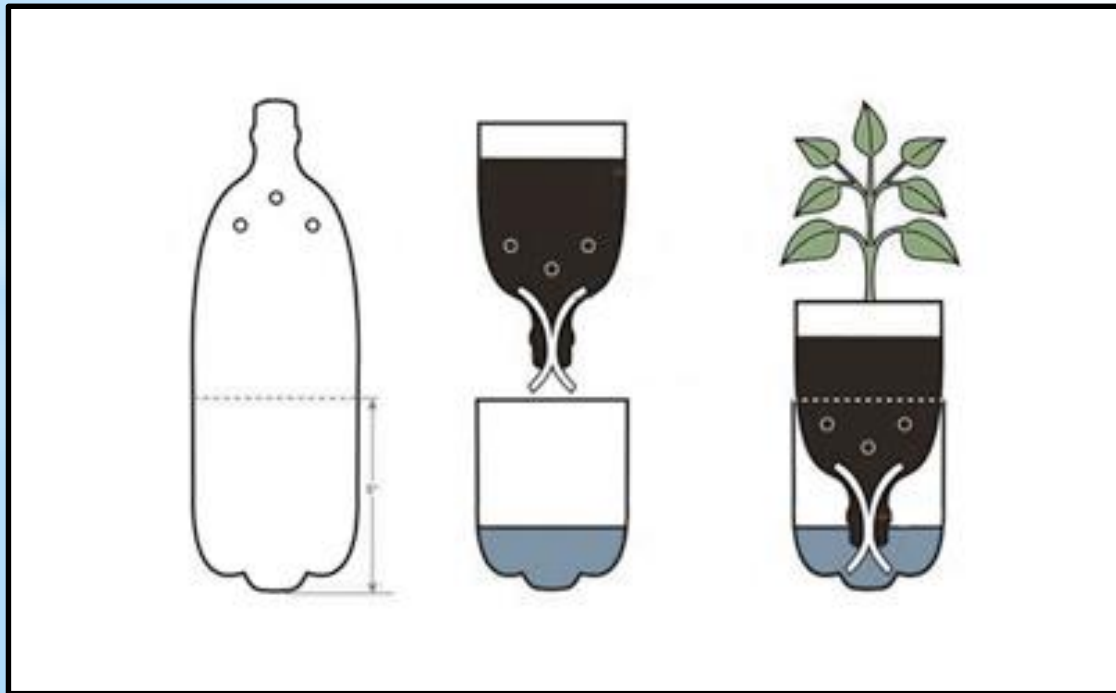


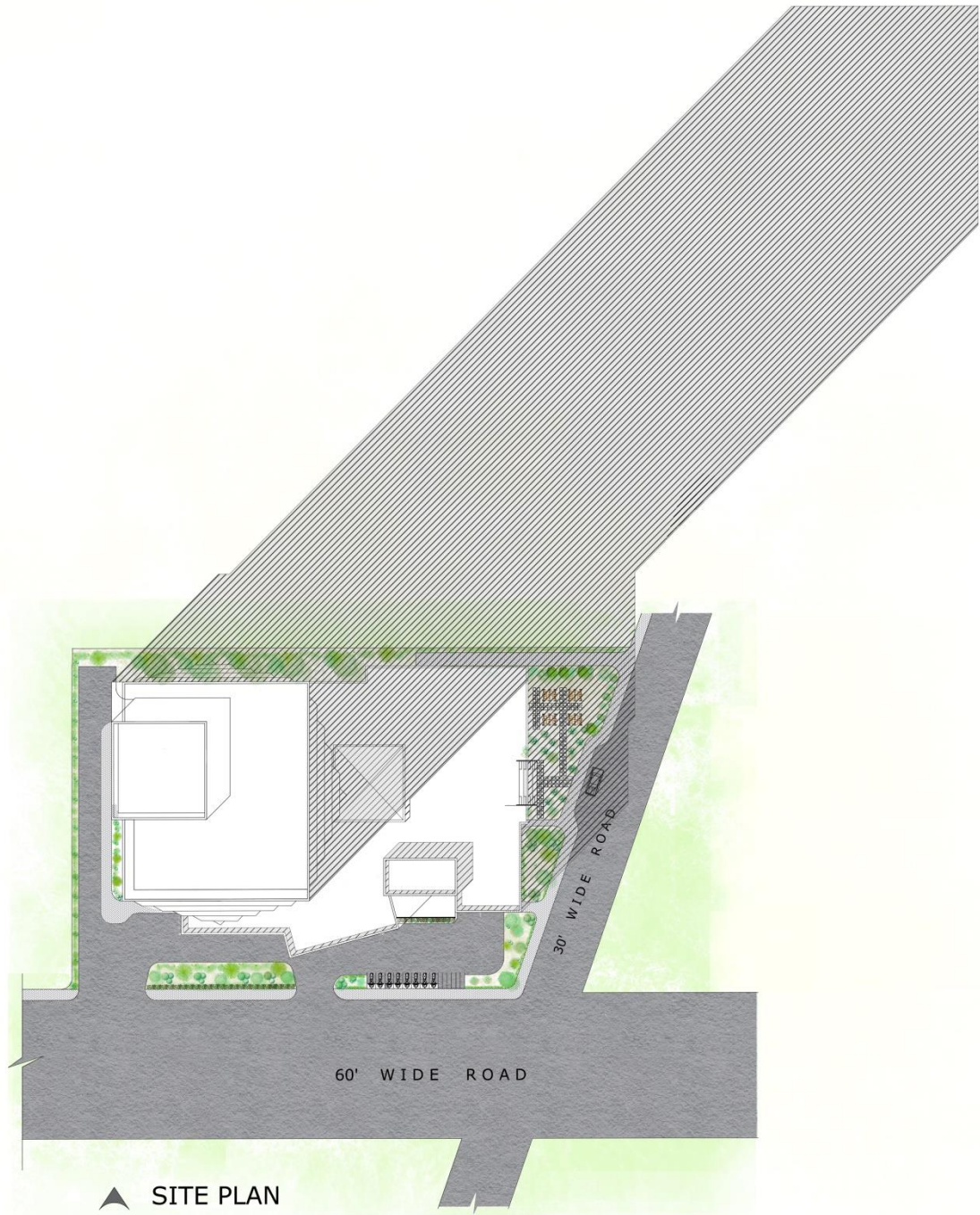
## DESIGN CONSIDERATIONS

### ➤ Tower

- **Re-use of plastic bottle**

I have used recyclable plastic bottle to reduce the urban waste which will create the environment Public friendly. The most important cause of using plastic bottles is that these are not rotten in the soil.

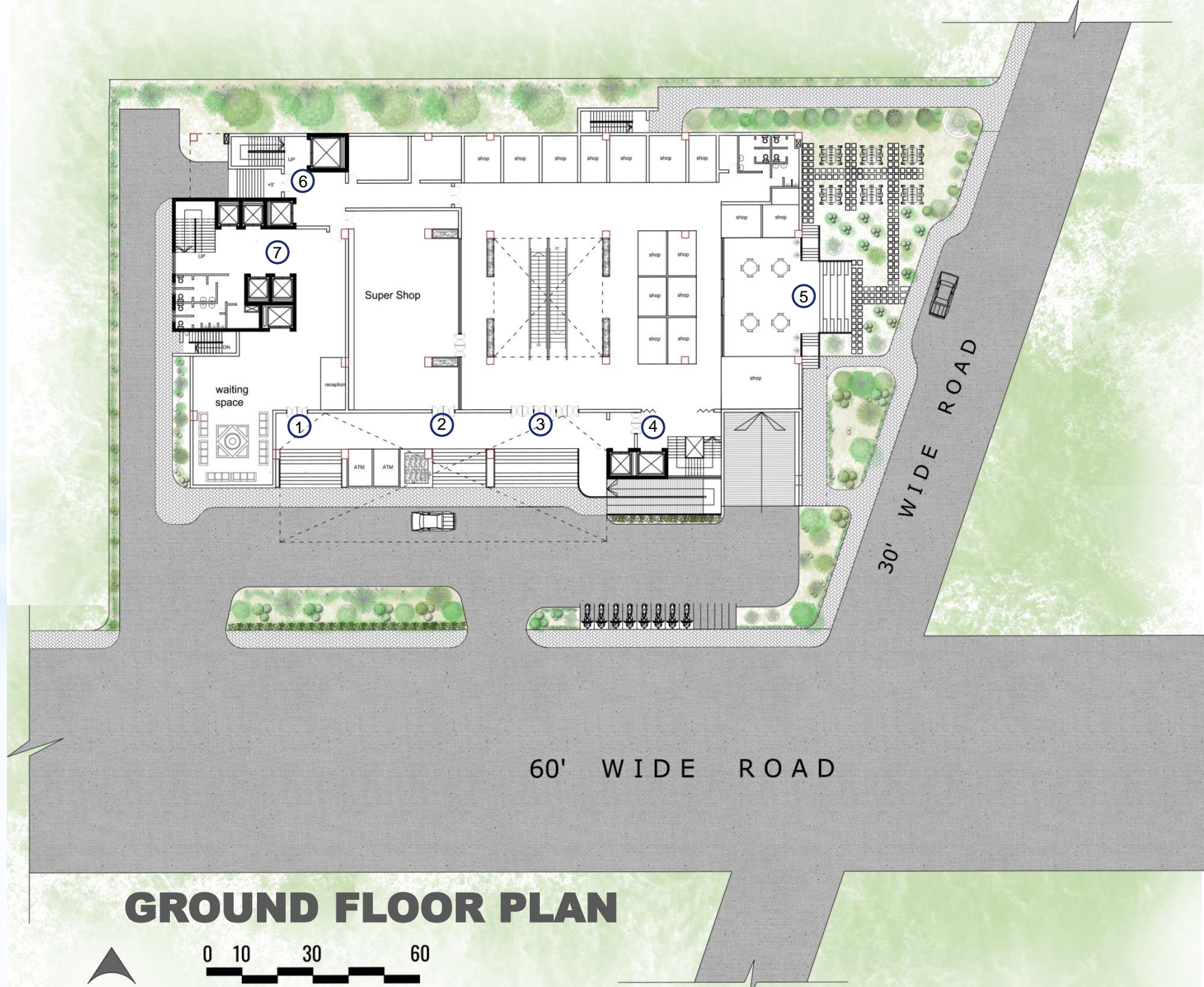




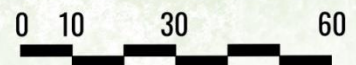
▲ SITE PLAN

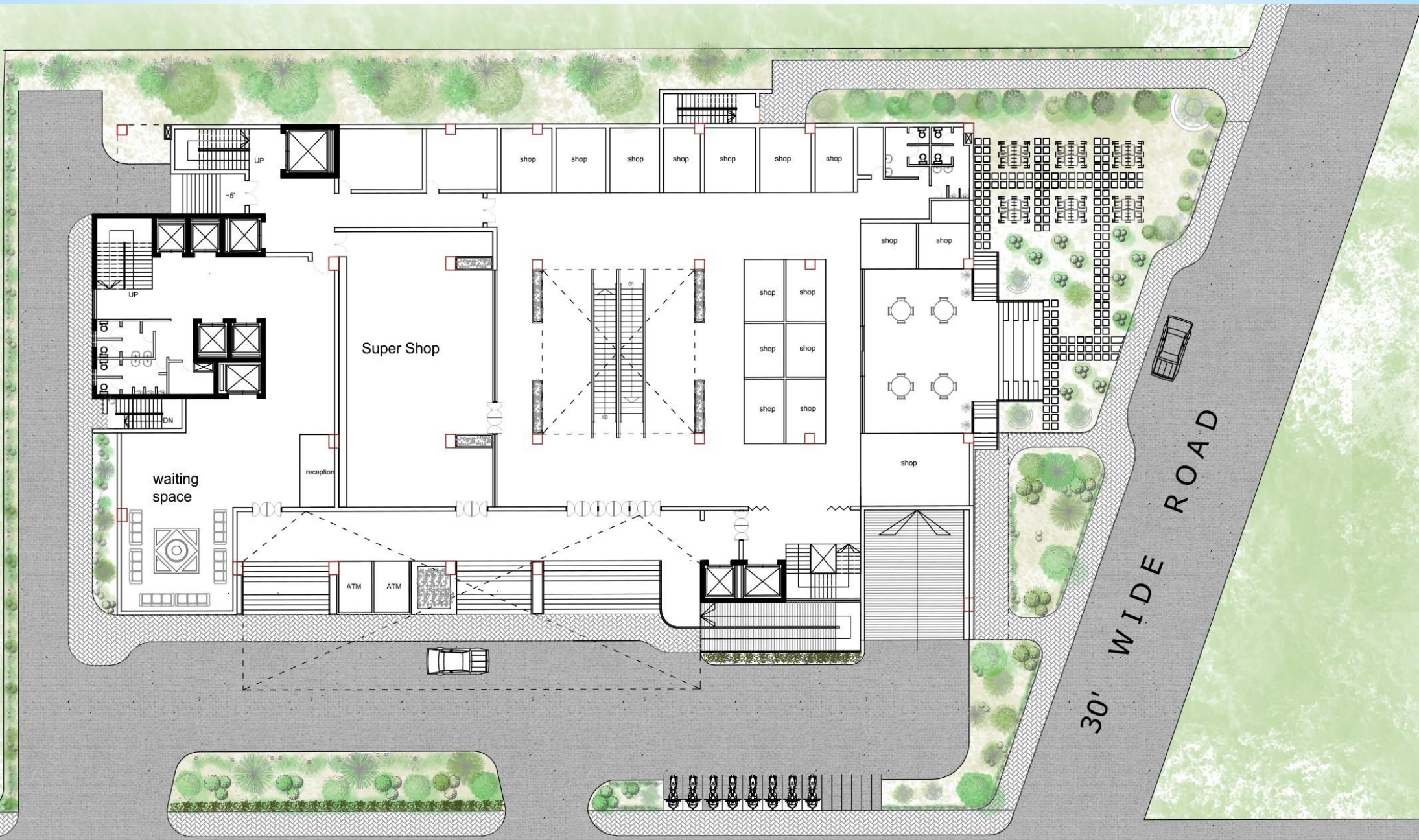
0 10 30 60

1. Office Entry
2. Super Shop Entry
3. Market Entry
4. Vertical circulation
5. Public Gathering Space
6. Service Entry
7. Core



# GROUND FLOOR PLAN





30' WIDE ROAD

Super Shop

waiting space

reception

ATM

ATM

shop

shop

shop

shop

shop

shop

shop

shop

shop

shop

shop

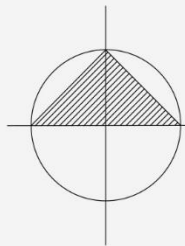
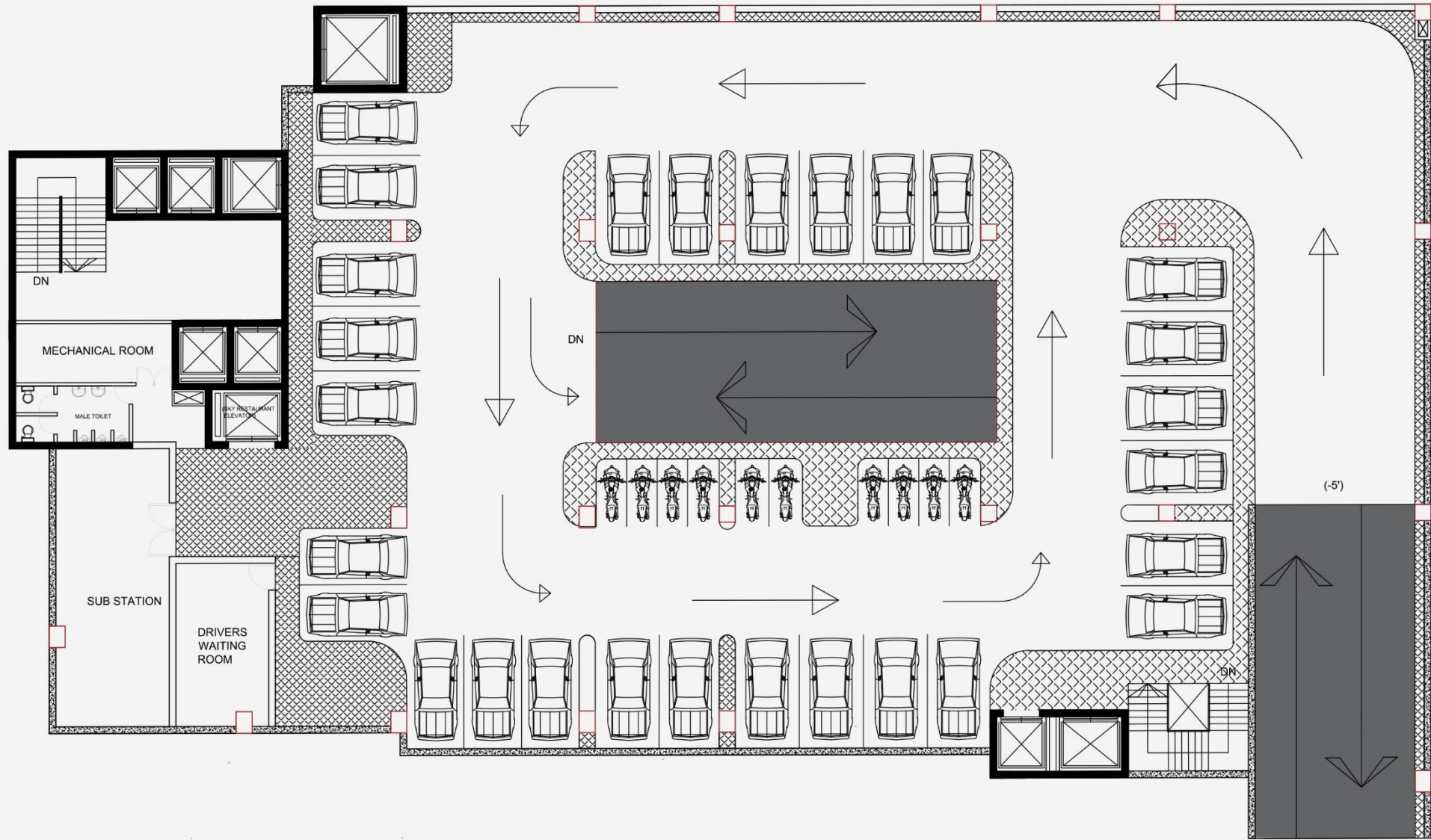
shop

shop

shop

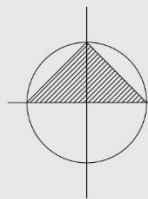
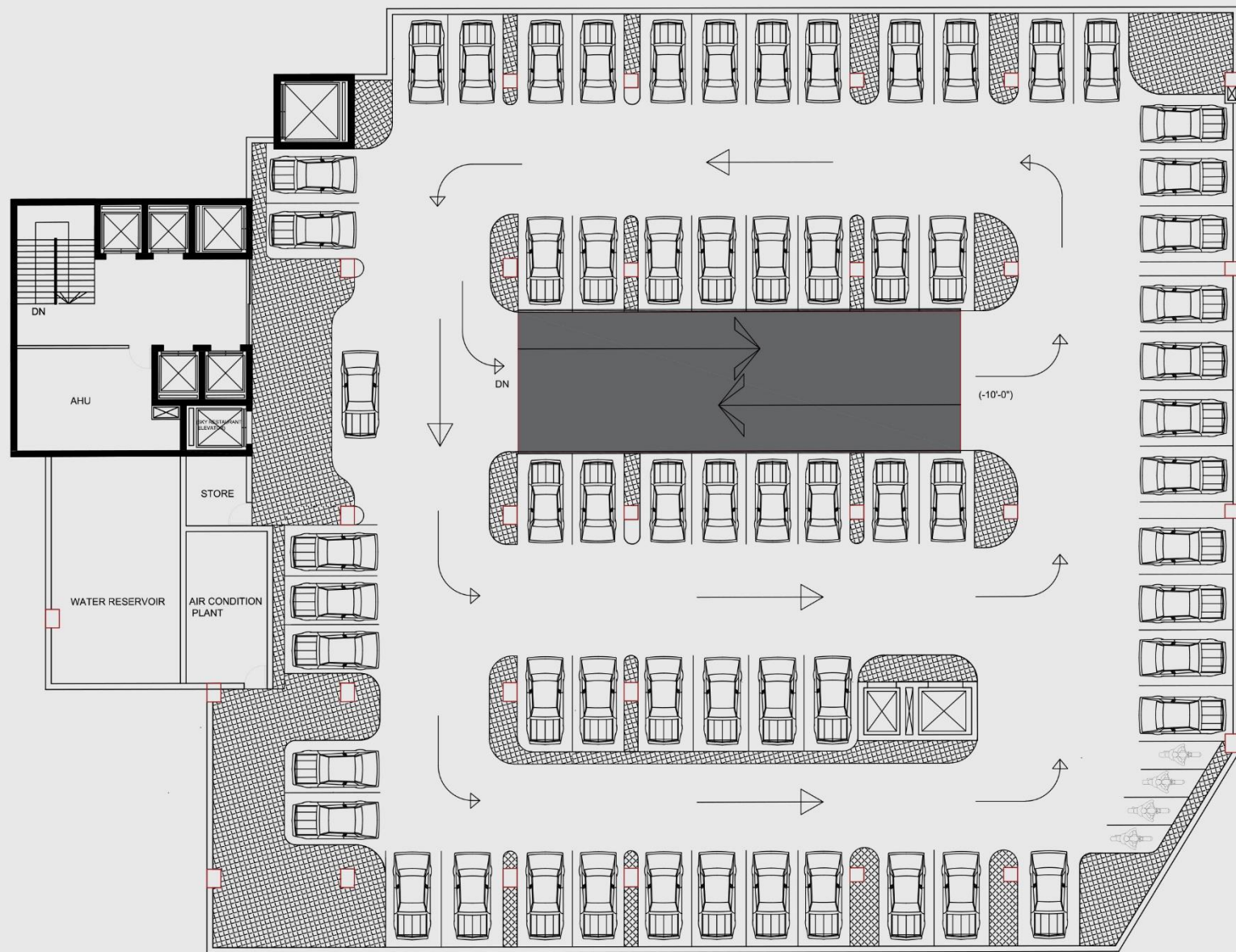
shop

shop



# SEMI BASEMENT PLAN

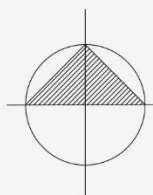
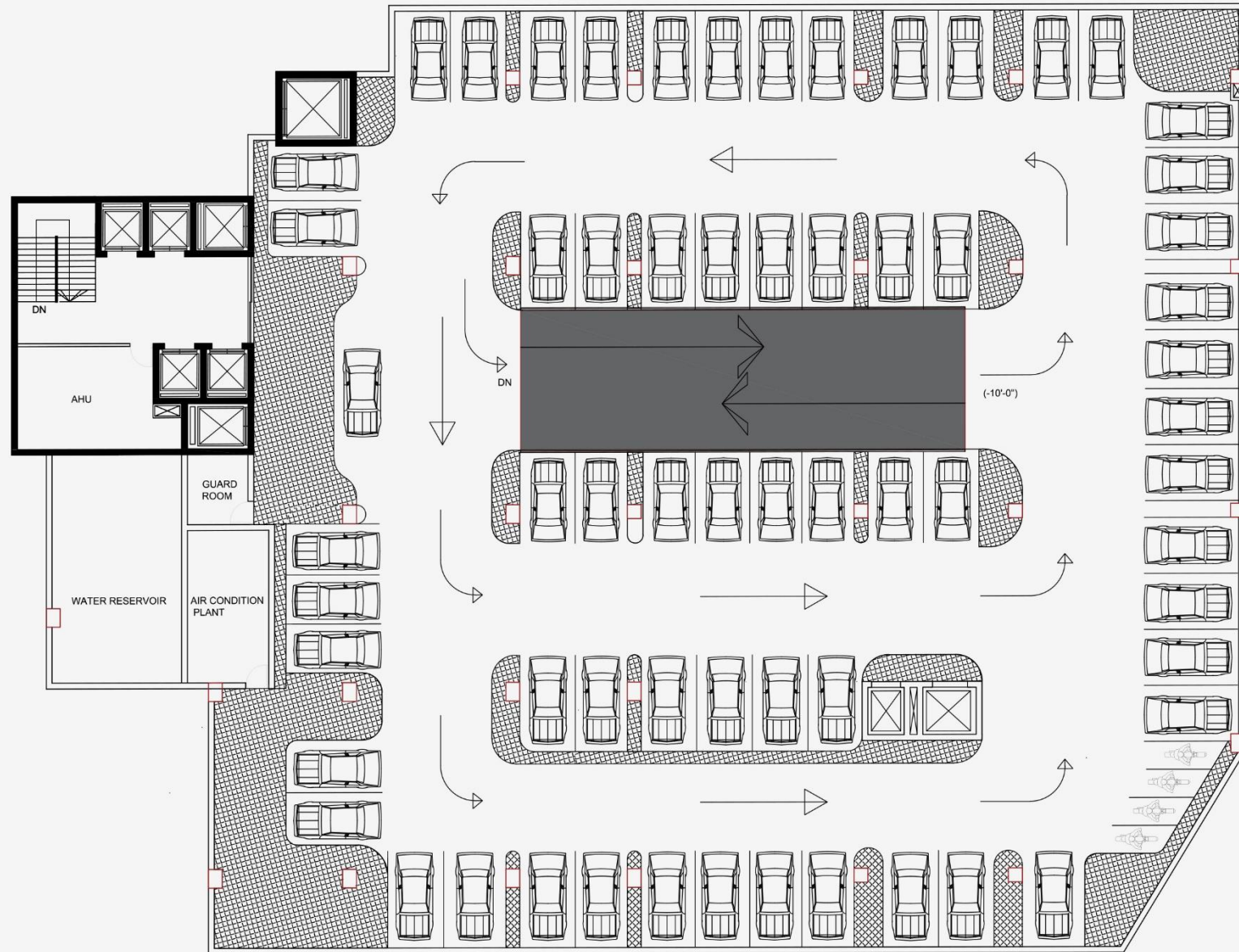




# FIRST BASEMENT PLAN

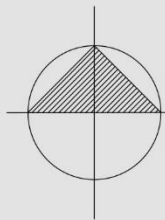
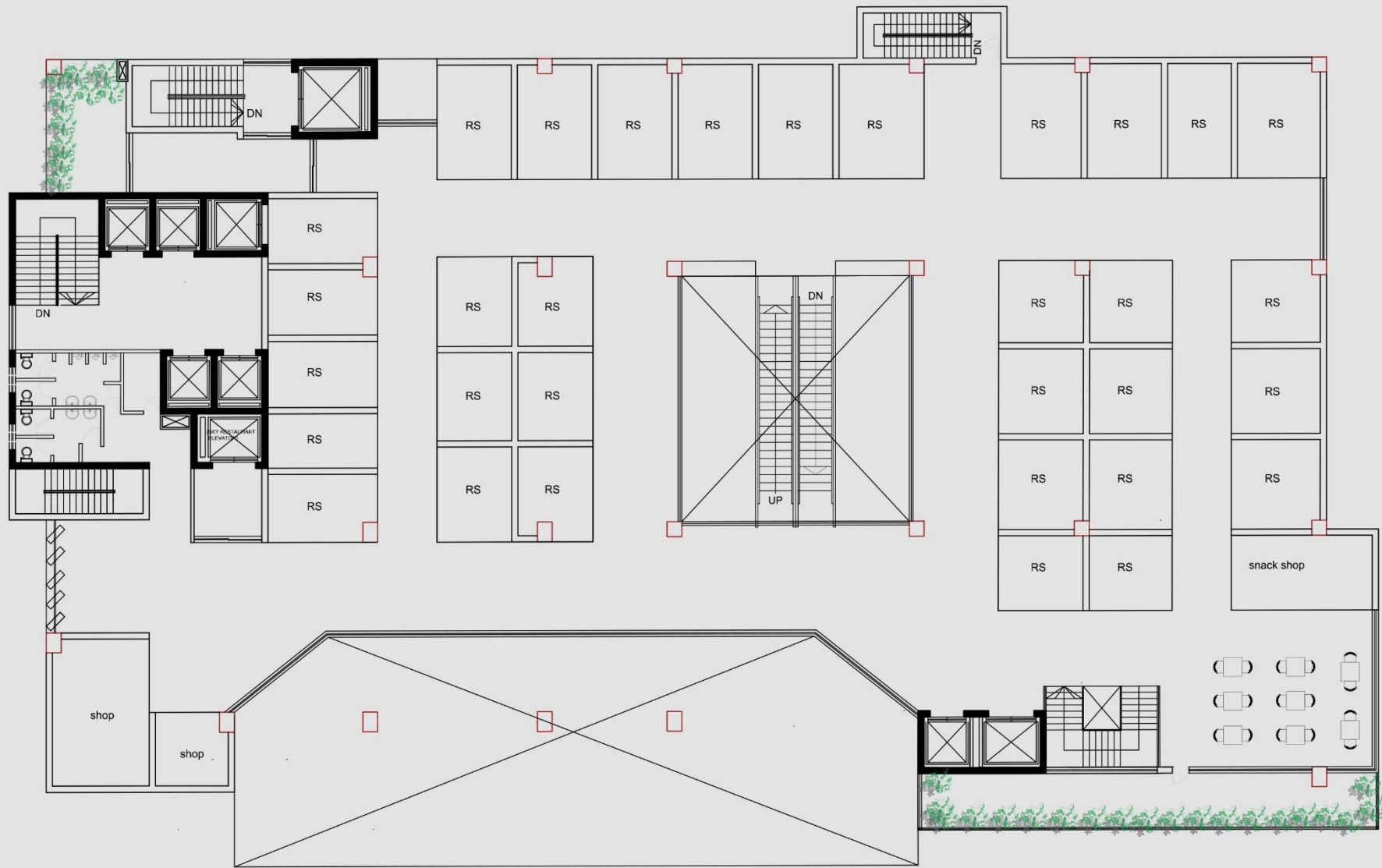
0 10 30 60





# SECOND BASEMENT PLAN

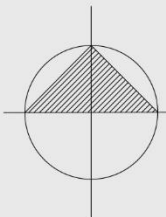
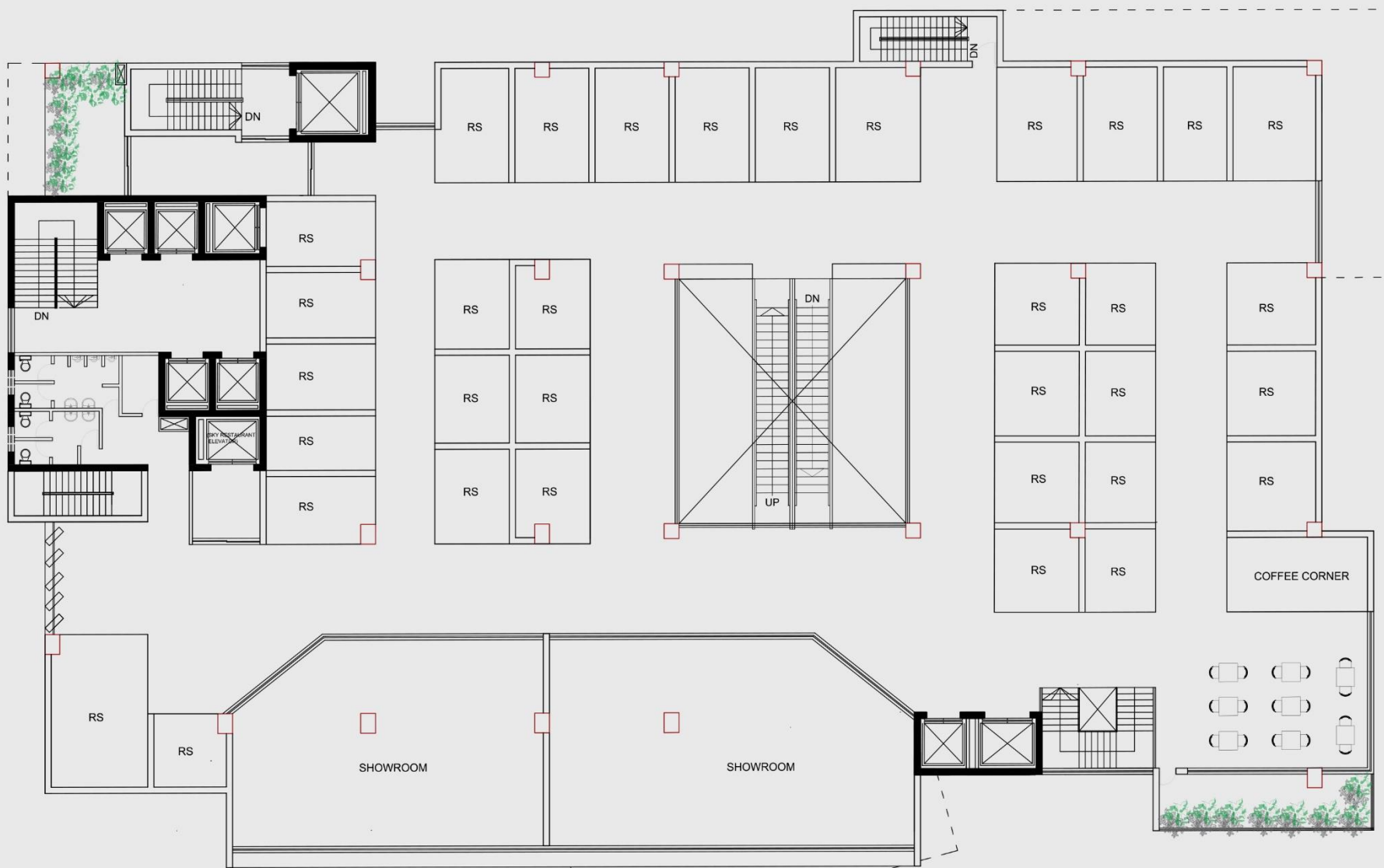




# FIRST FLOOR PLAN

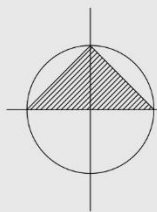
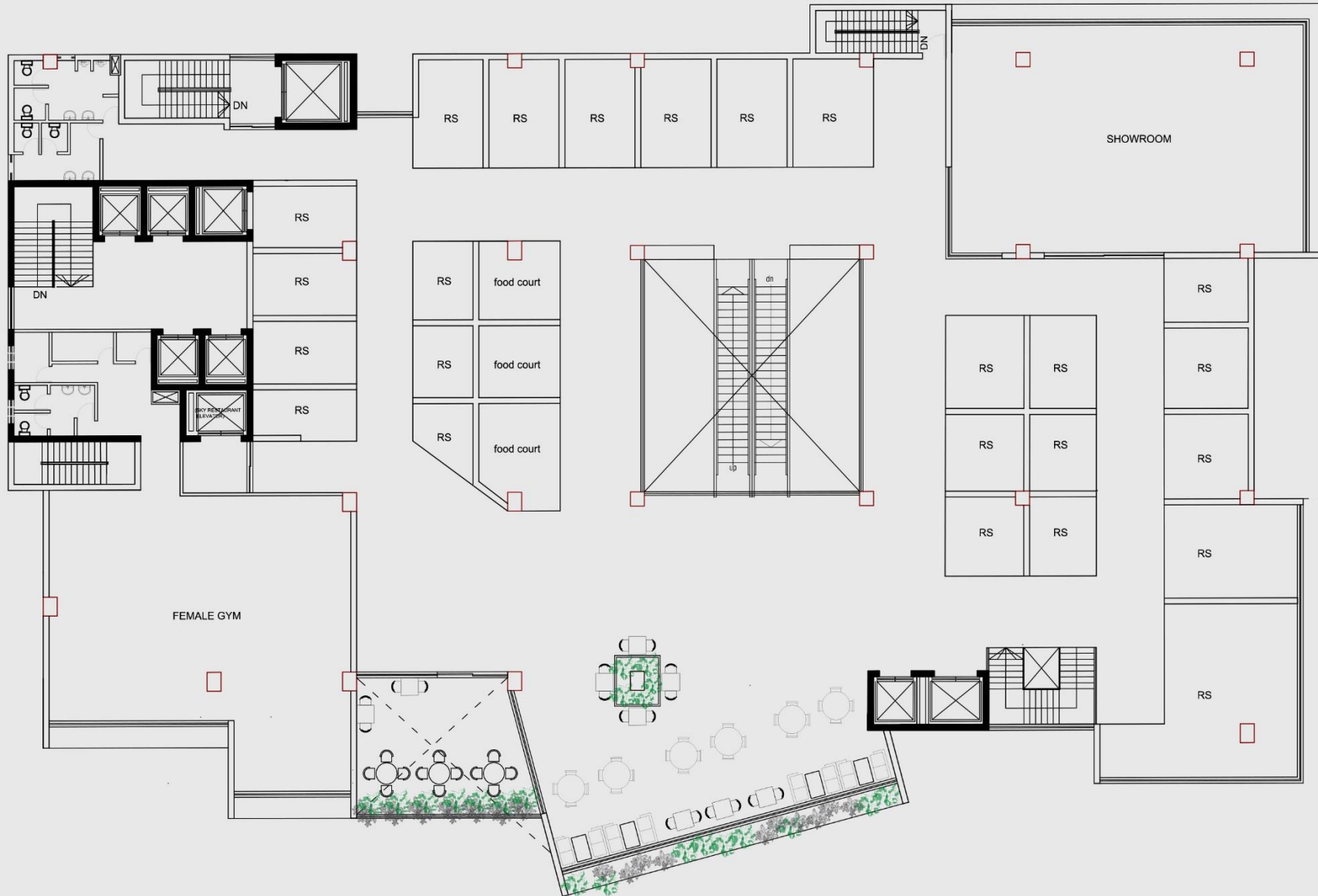
0 10 30 60





# SECOND FLOOR PLAN

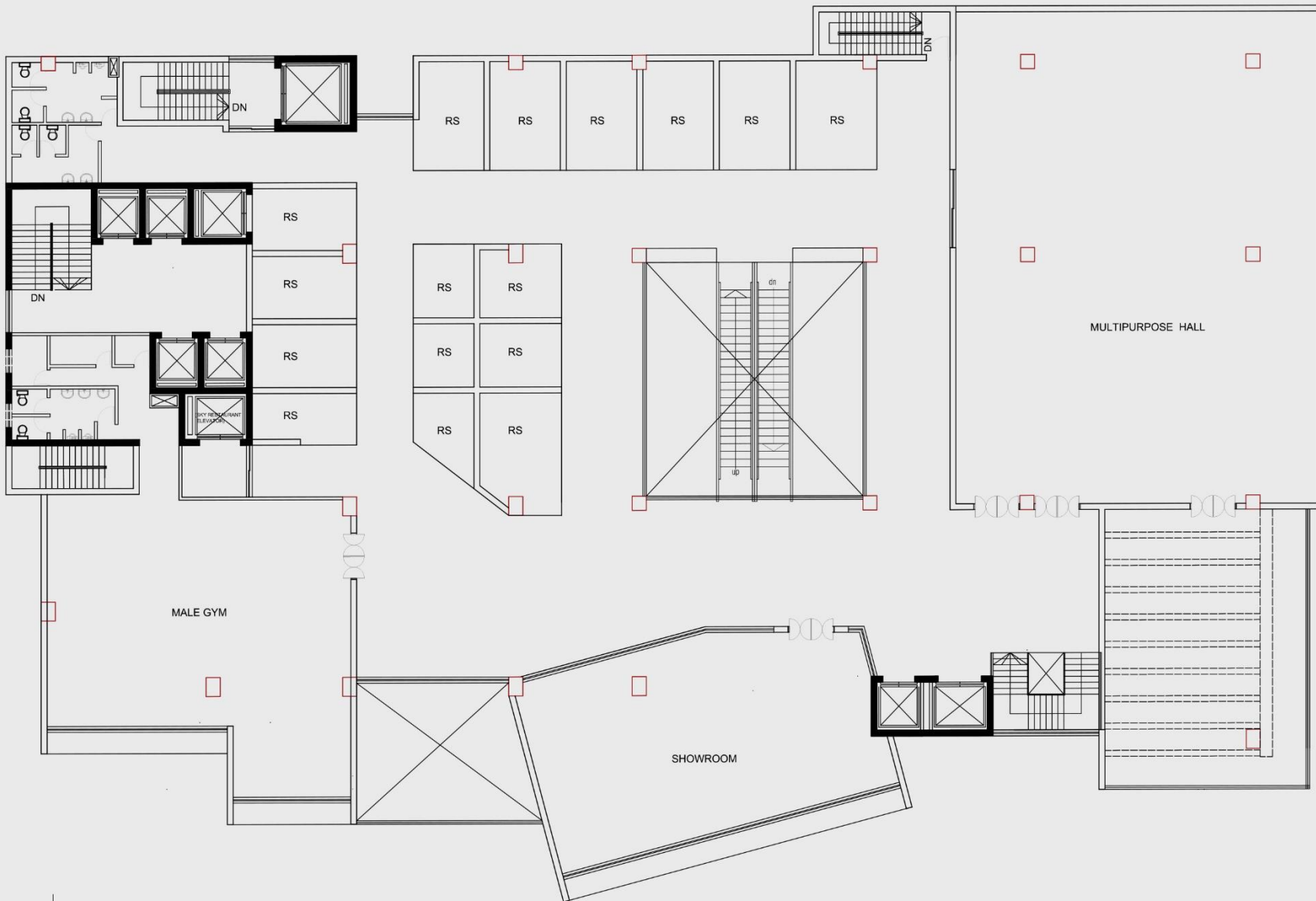




# THIRD FLOOR PLAN

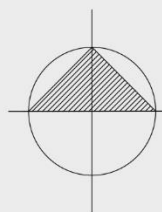
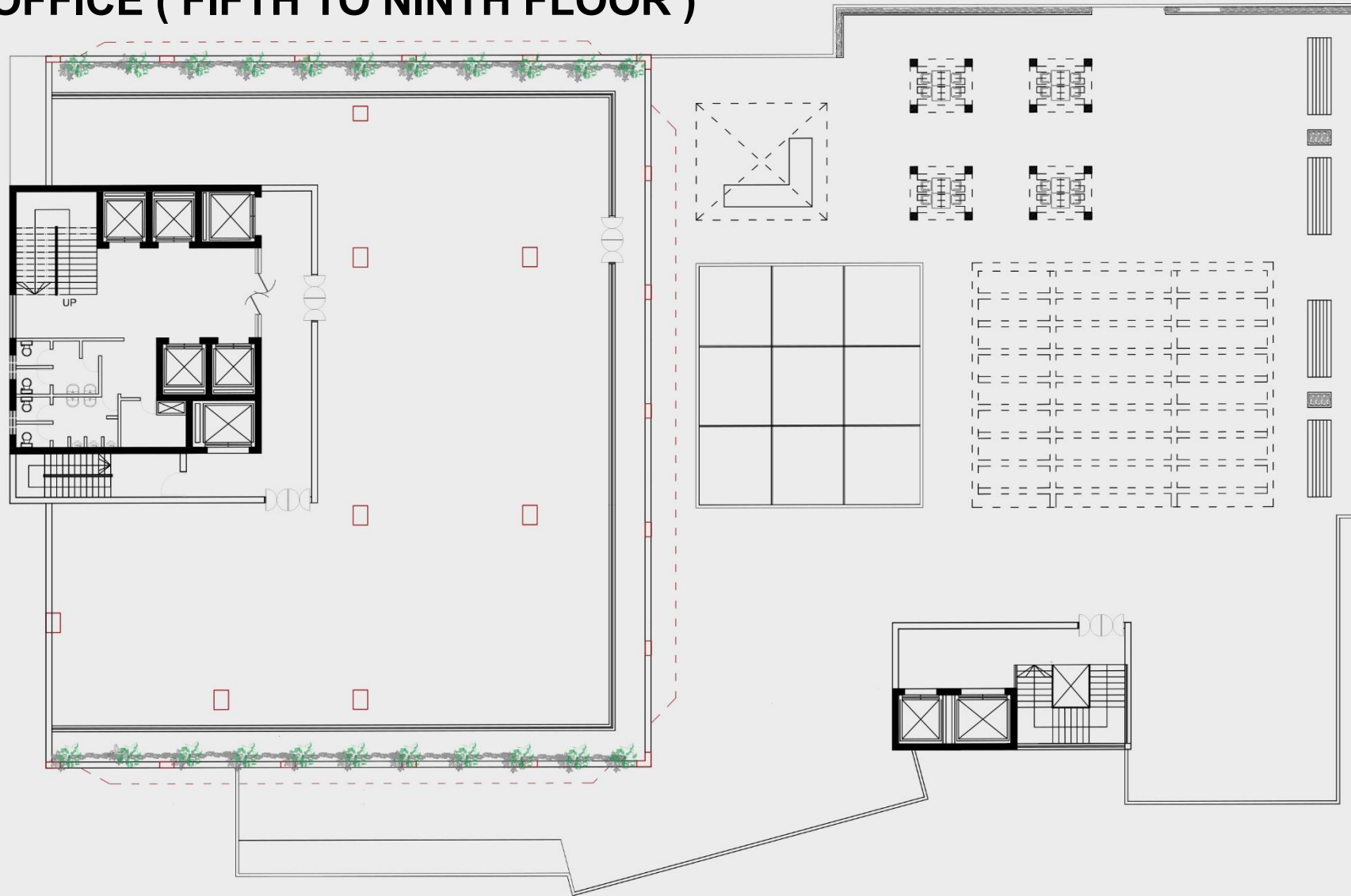
0 10 30 60





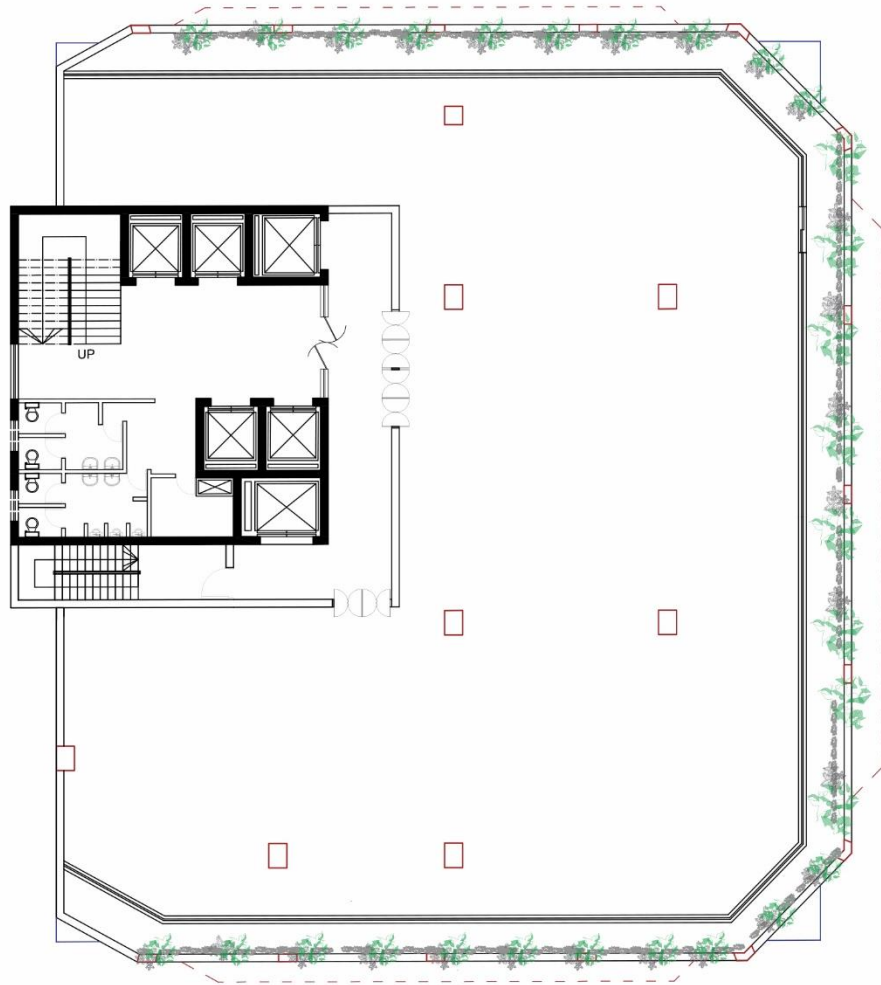
 **FOURTH FLOOR PLAN**  
0 10 30 60

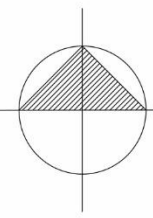
# OWNER'S OFFICE ( FIFTH TO NINTH FLOOR )

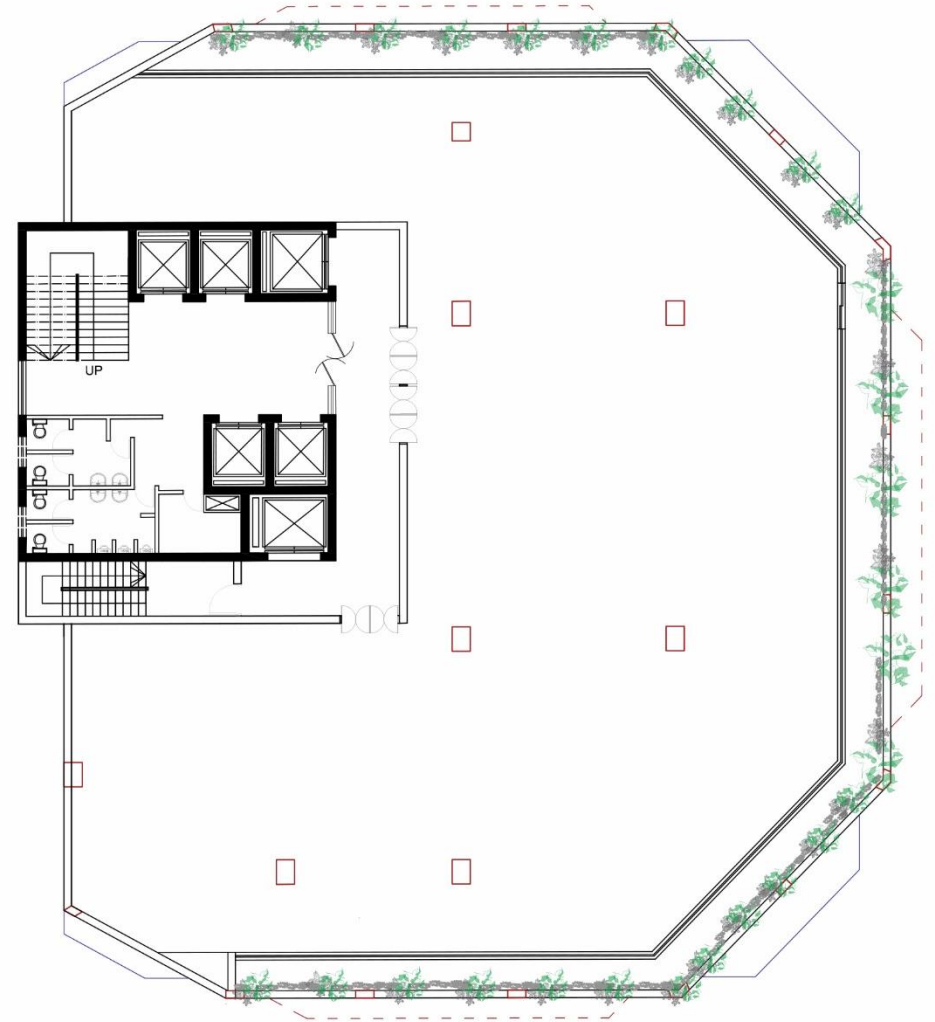


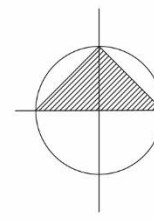
## FIFTH FLOOR PLAN

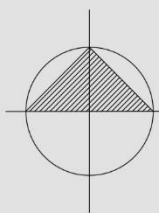
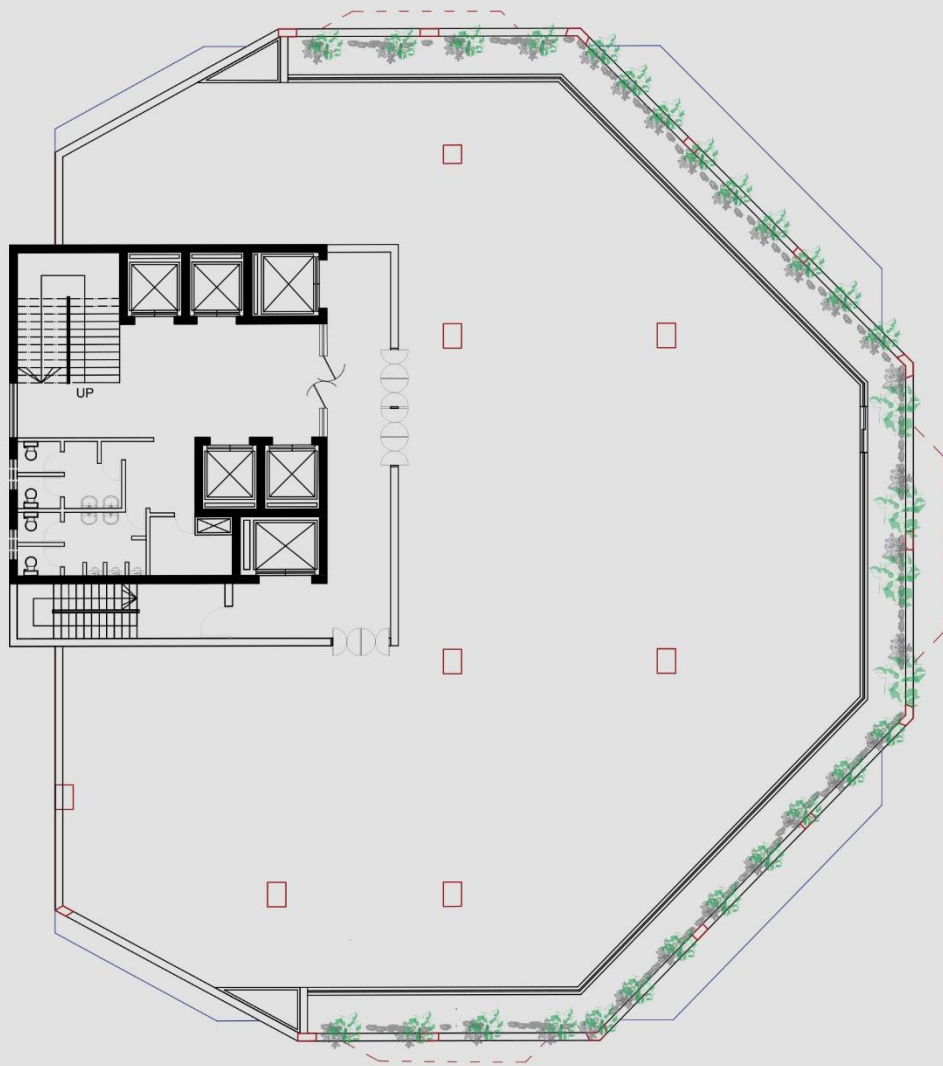




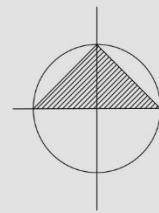
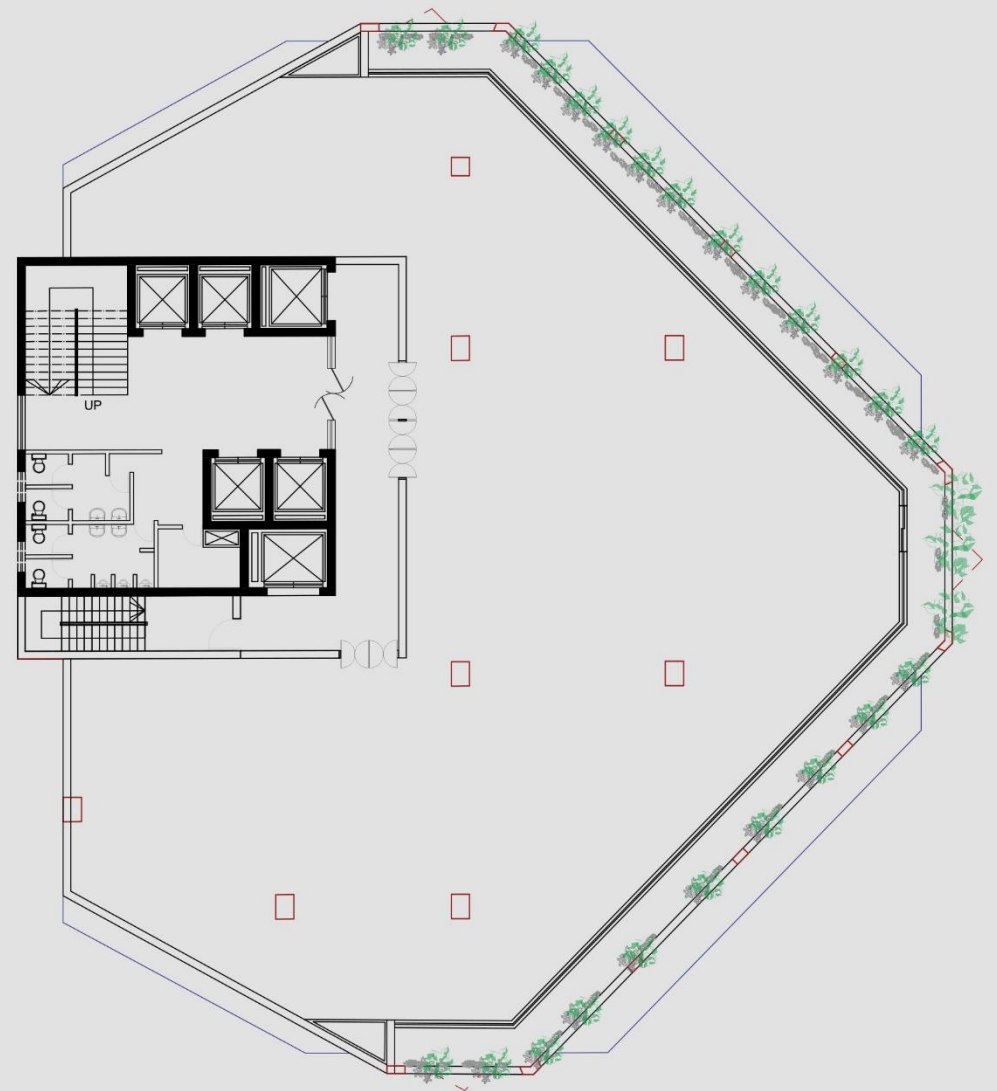
 **SIXTH FLOOR PLAN**  
0 10 30 60



 **SEVENTH FLOOR PLAN**  
0 10 30 60

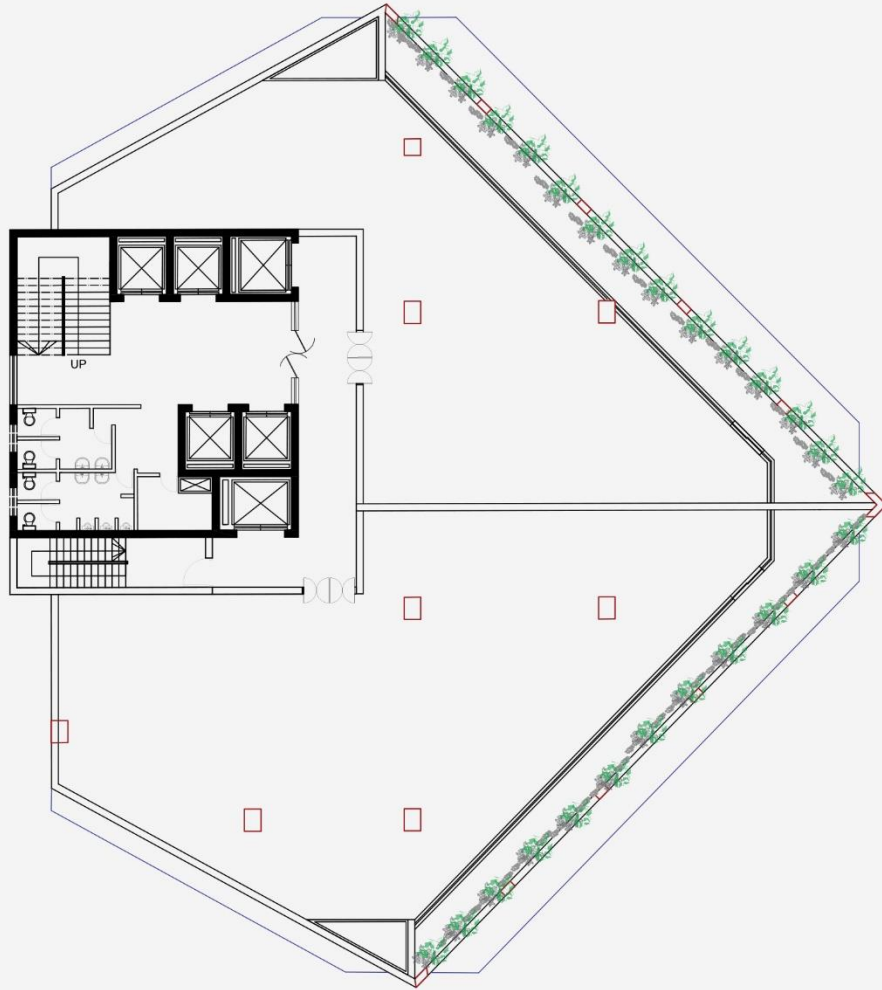


**EIGHTH FLOOR PLAN**

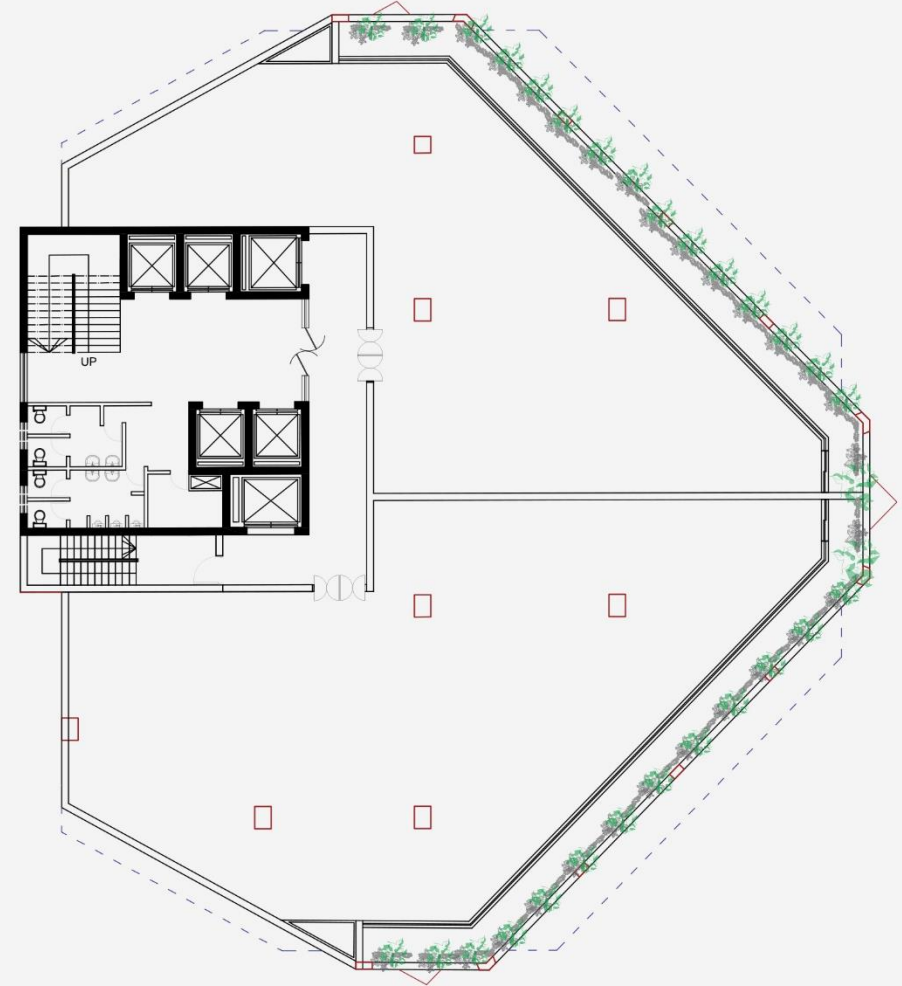
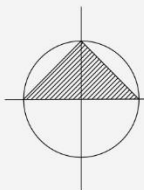


**NINTH FLOOR PLAN**

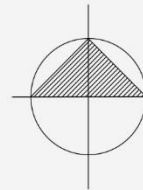


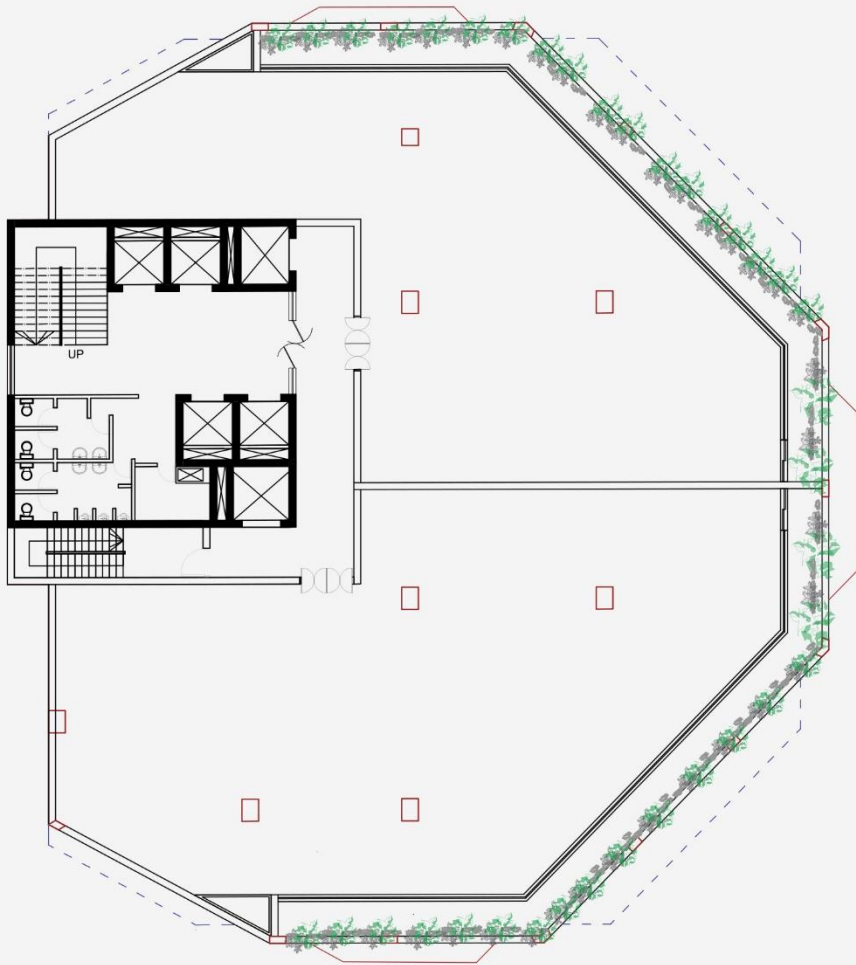


TENTH, TWENTIETH,  
THIRTIETH FLOOR PLAN

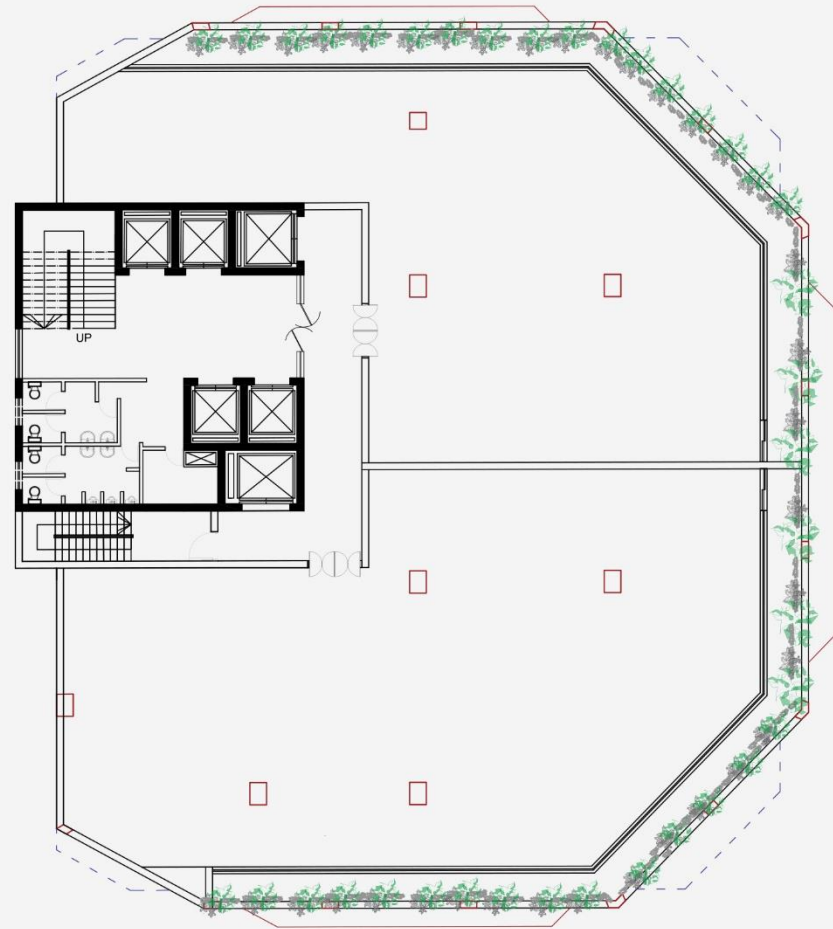
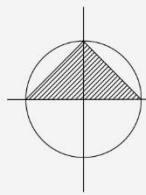


ELEVENTH, TWENTY-ONE,  
THIRTY-ONE FLOOR PLAN

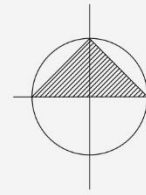


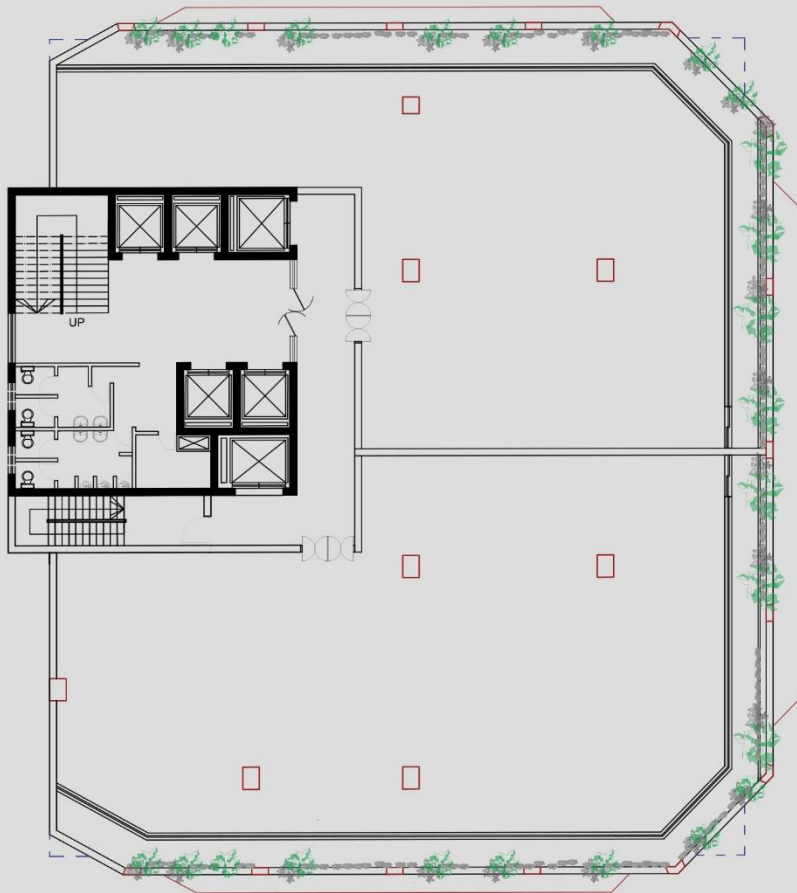


TWELFTH, TWENTY-TWO,  
THIRTY-TWO FLOOR PLAN

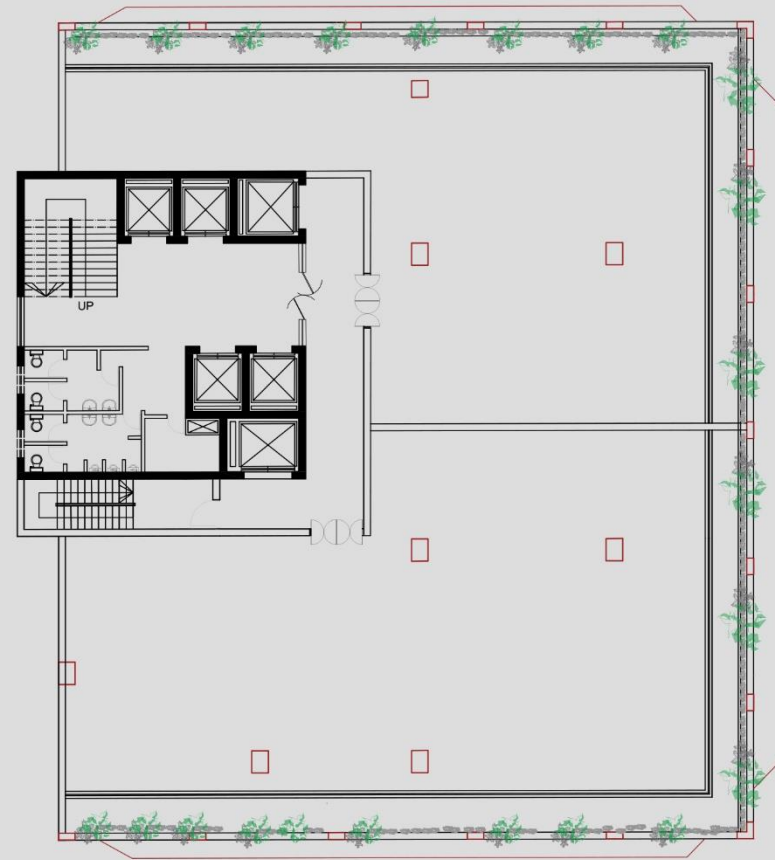
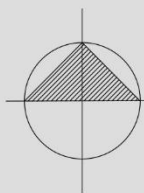


THIRTEENTH, TWENTY-THREE,  
THIRTY-THREE FLOOR PLAN

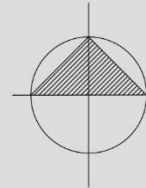


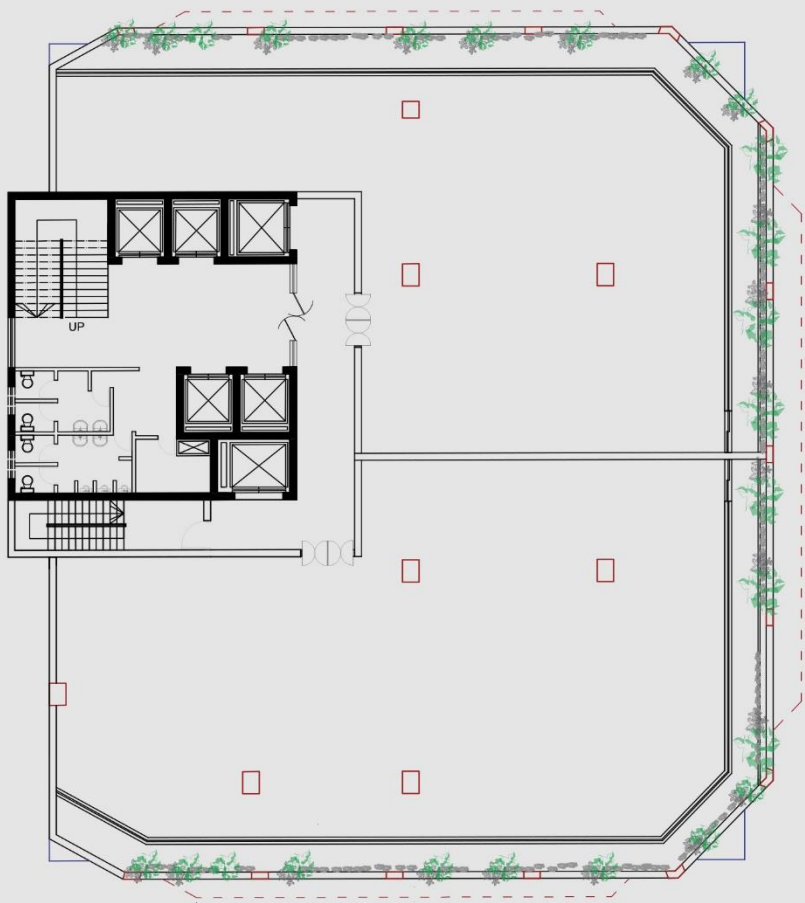


**FOURTEENTH, TWENTY-FOUR,  
FLOOR PLAN**

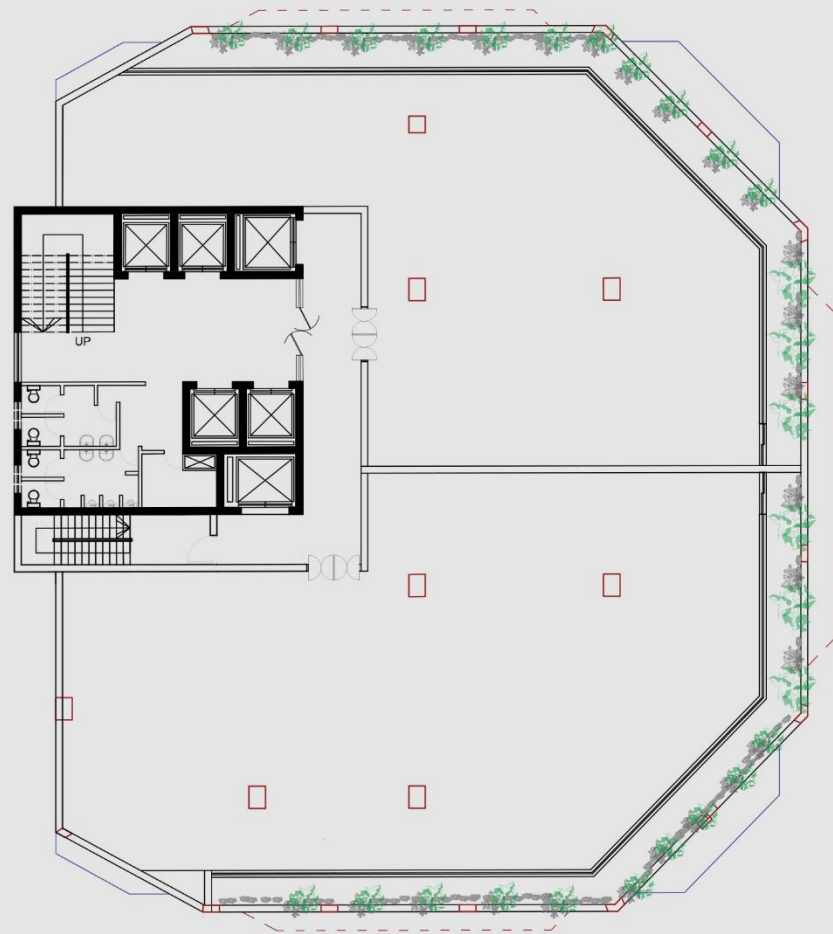
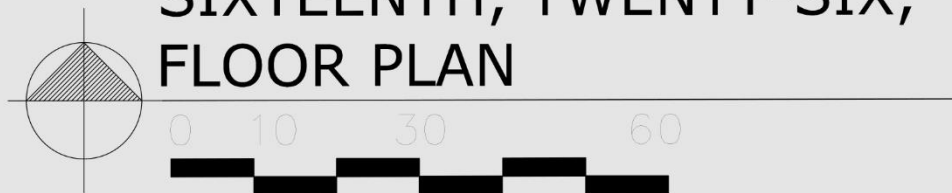


**FIFTEENTH, TWENTY-FIVE,  
FLOOR PLAN**



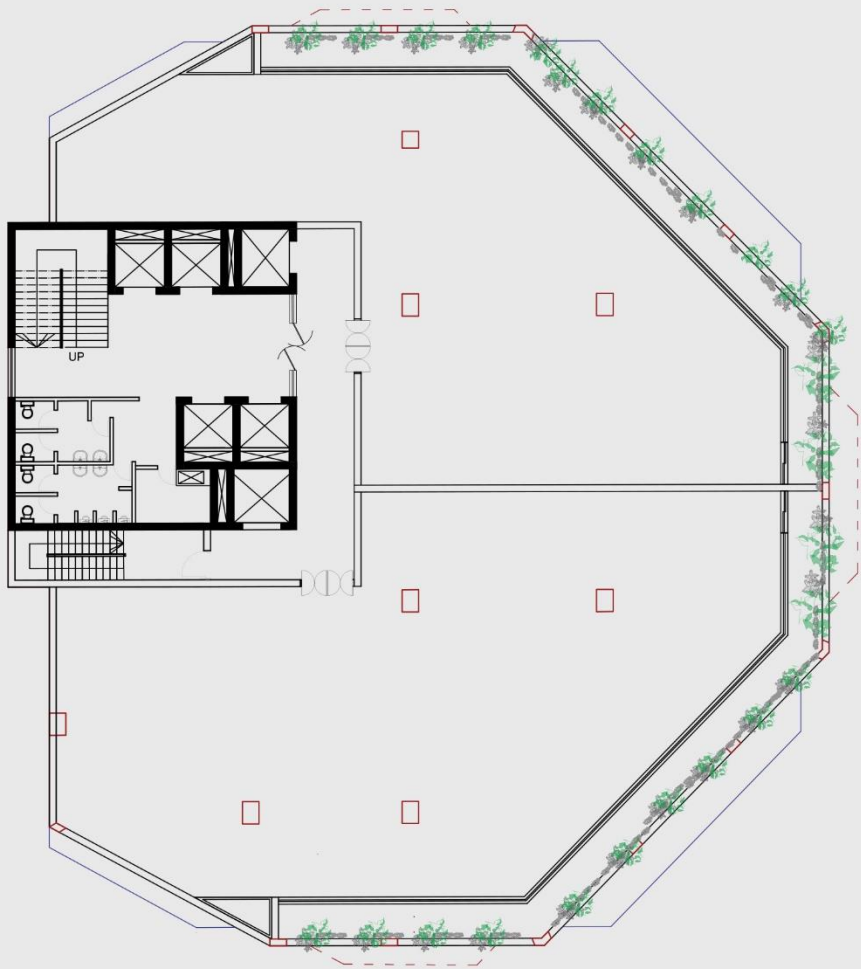


SIXTEENTH, TWENTY-SIX,  
FLOOR PLAN

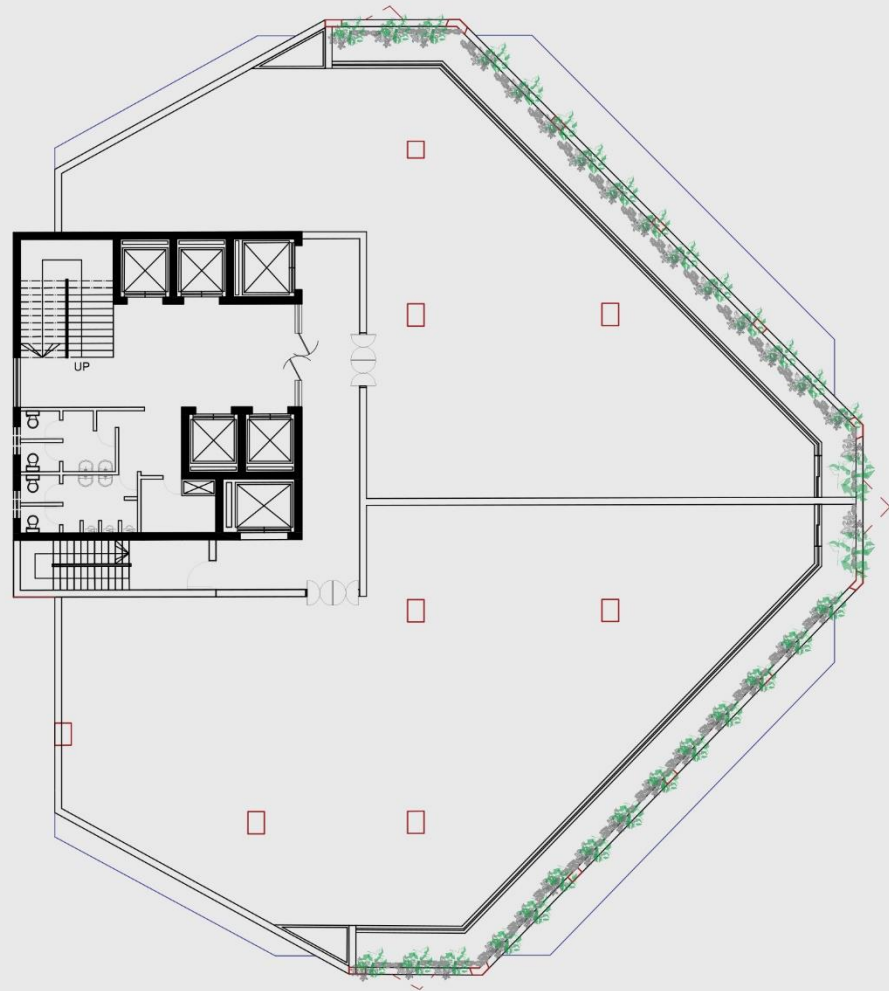


SEVENTEENTH,  
TWENTY-SEVEN, FLOOR PLAN



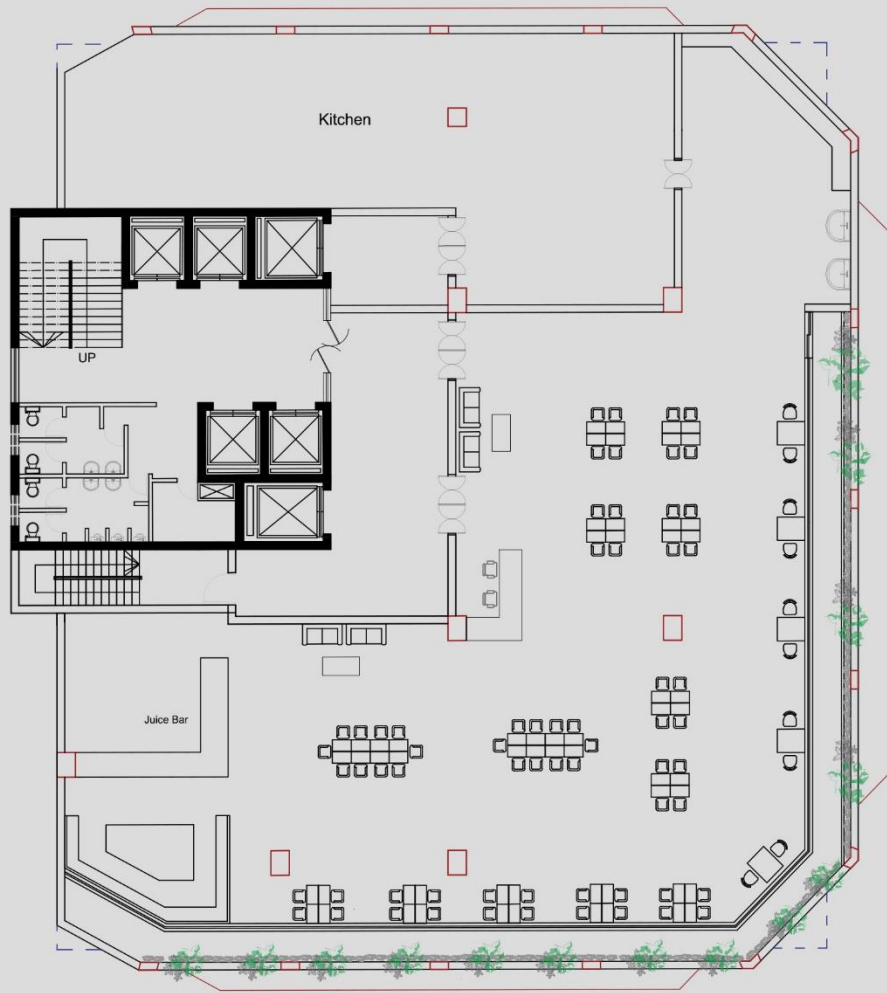


**EIGHTEENTH, TWENTY-EIGHT,  
FLOOR PLAN**



**NINETEENTH, TWENTY-NINE,  
FLOOR PLAN**



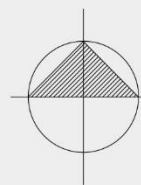
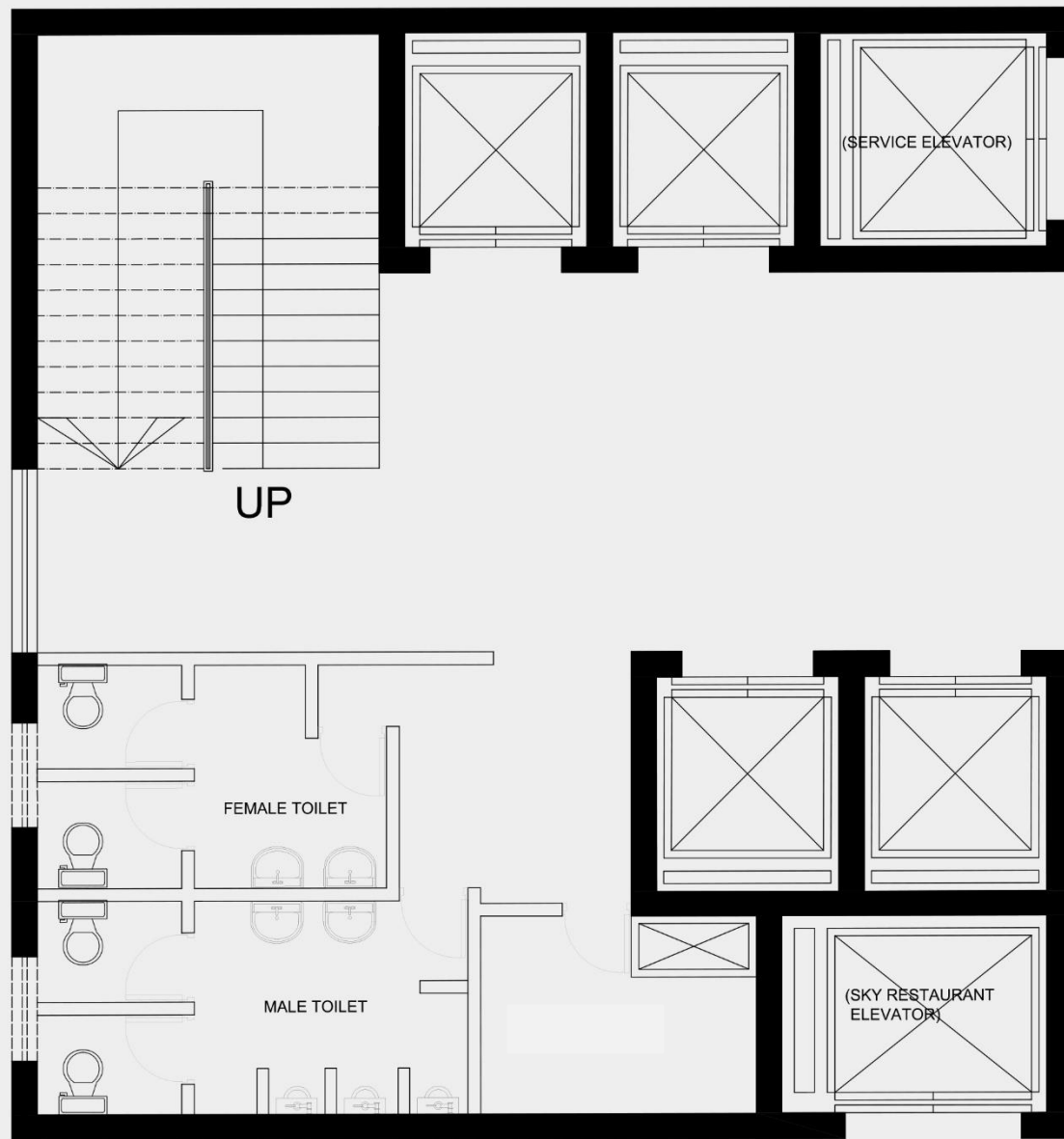


**THIRTY-FOUR FLOOR PLAN  
(SKY RESTAURANT)**

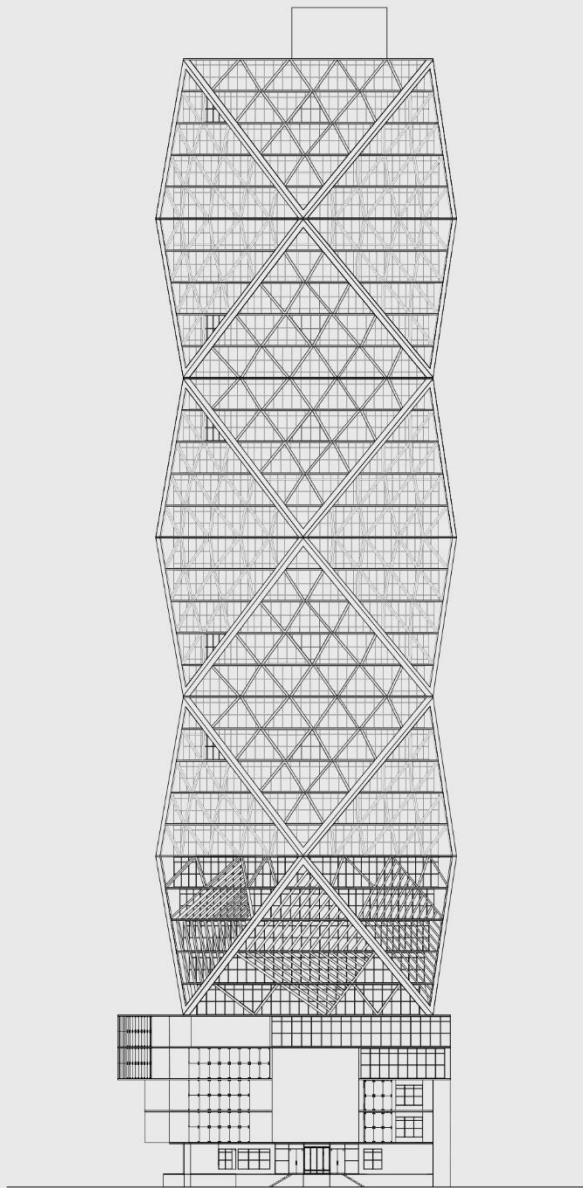


**ROOF PLAN**



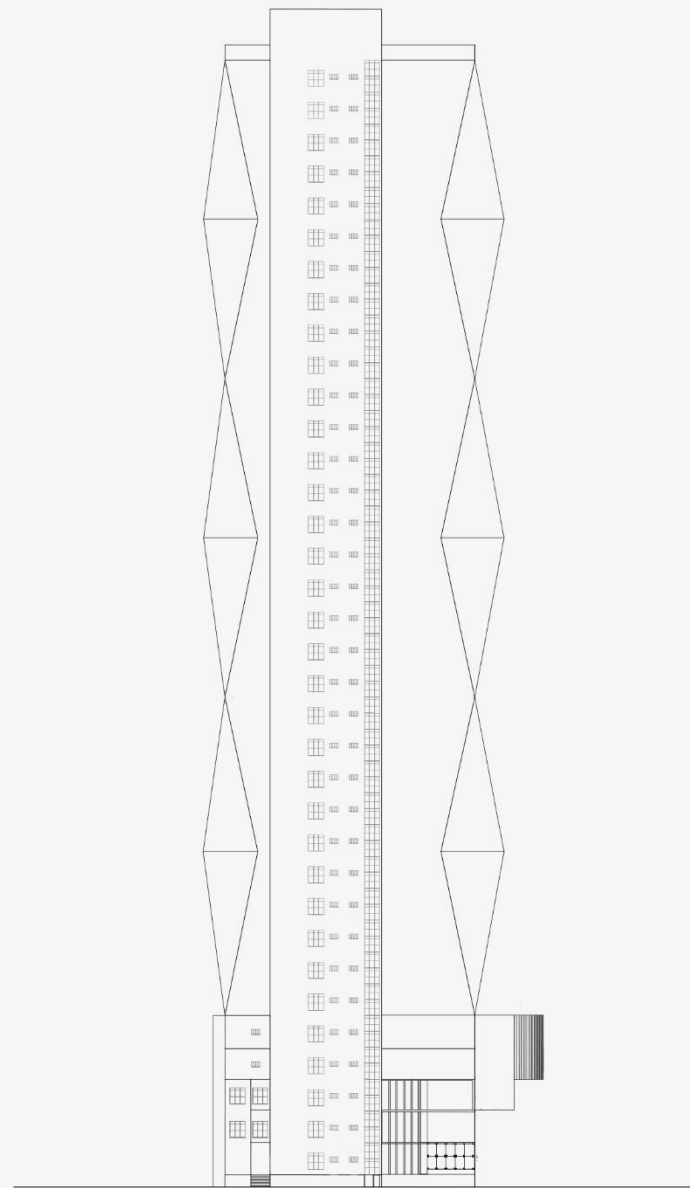


BLOW UP ( CORE )



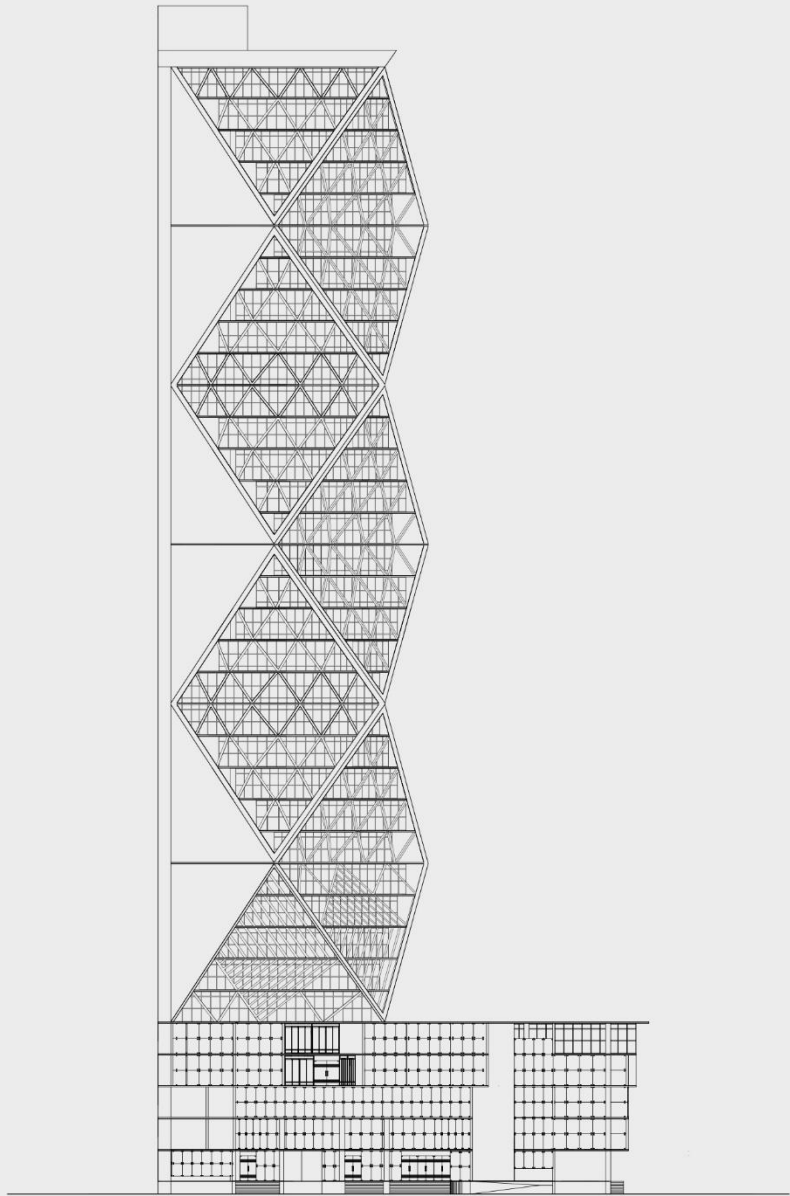
EAST ELEVATION

0 10 30 60

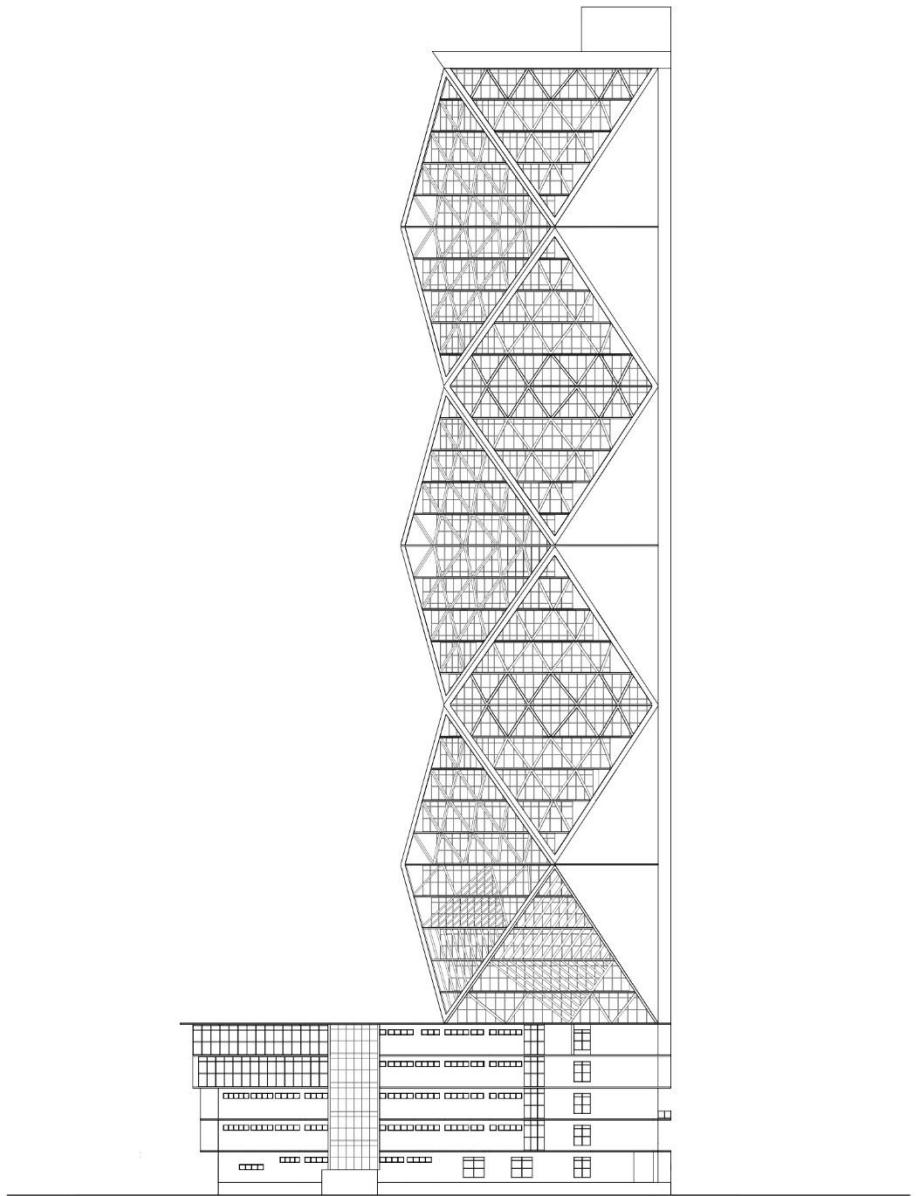


WEST ELEVATION

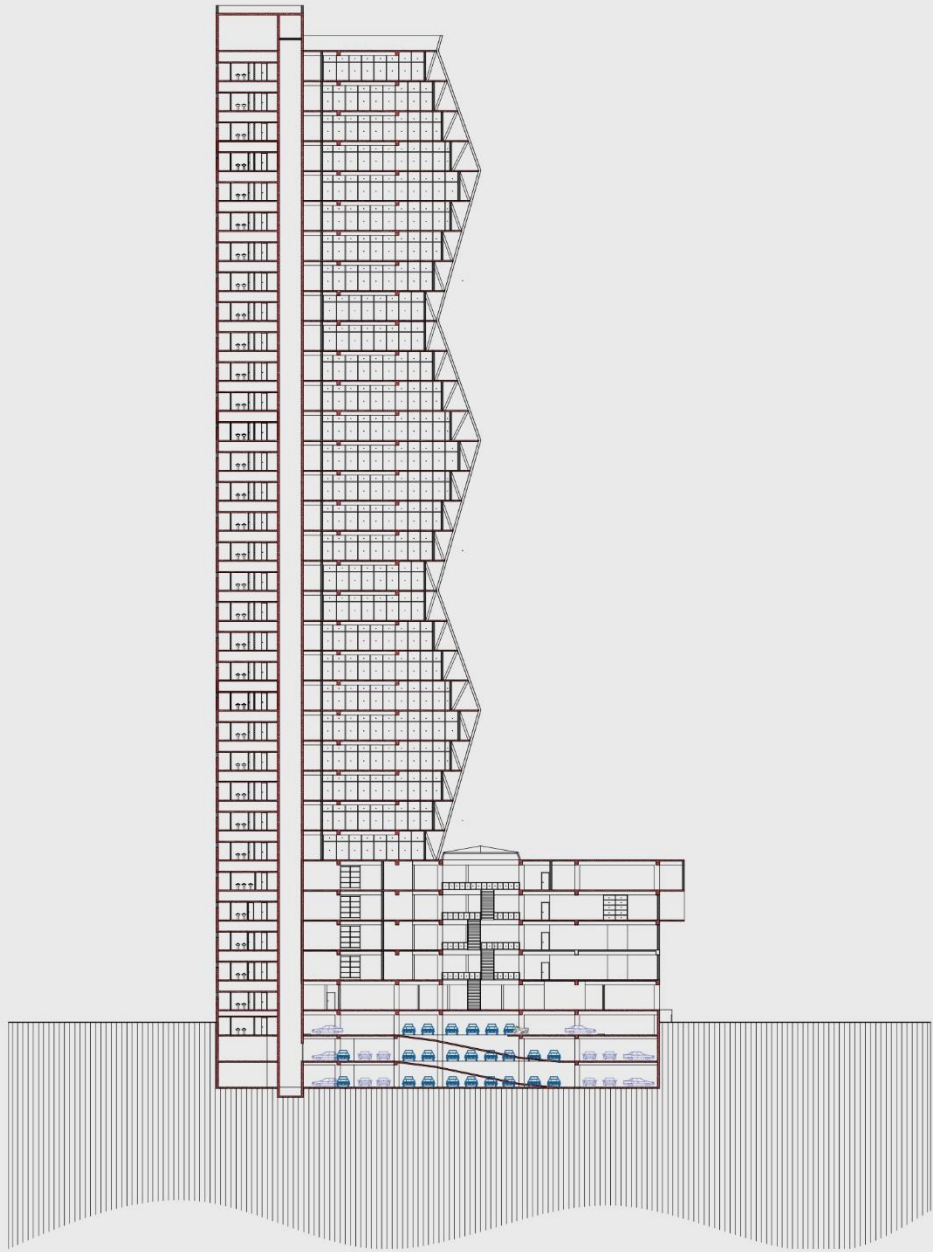
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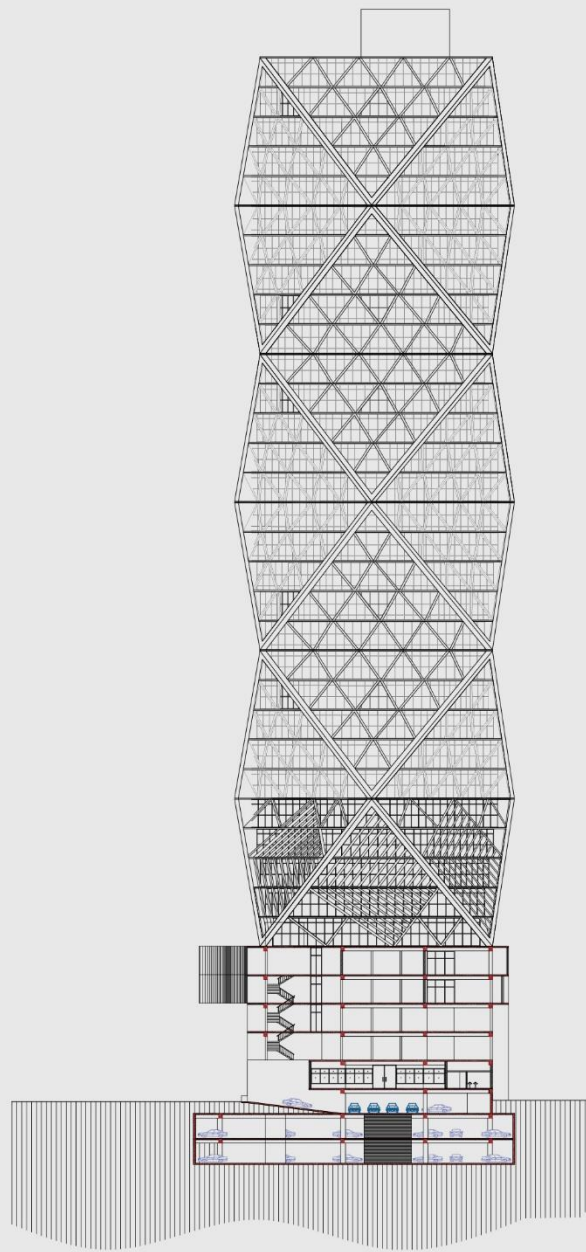
SOUTH ELEVATION  
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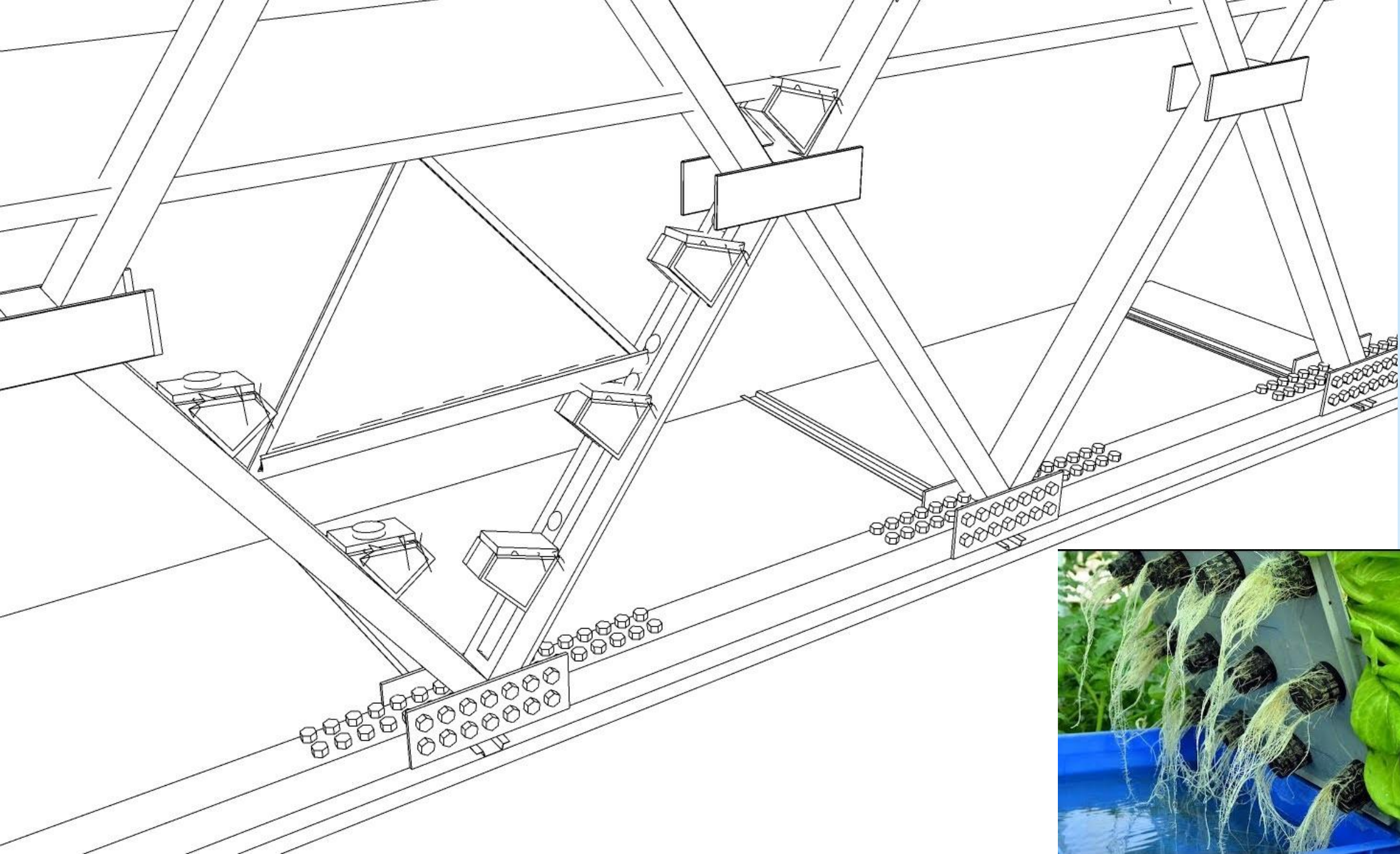
NORTH ELEVATION  
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SECTION AA'  
0 10 30 60



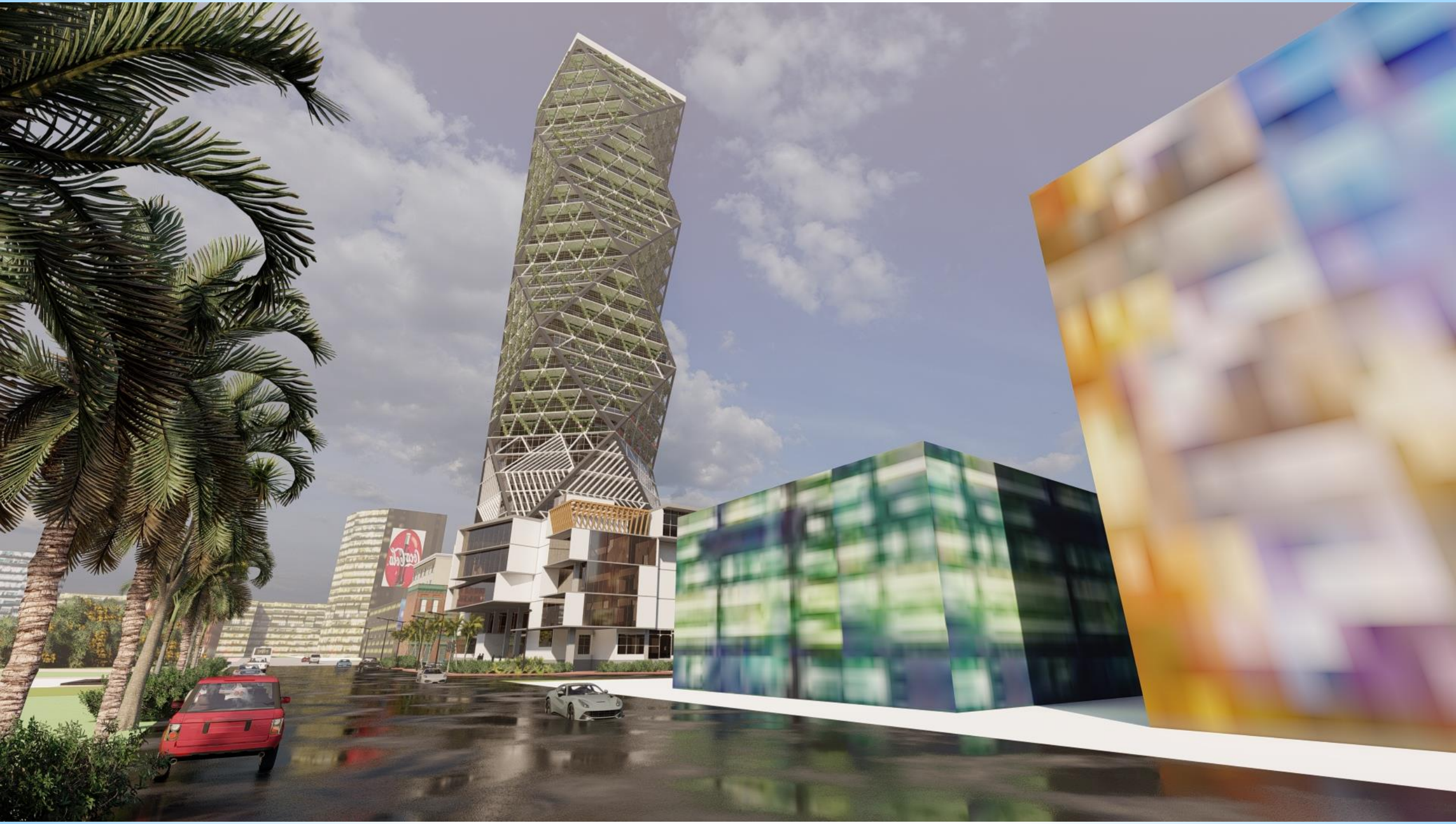
SECTION BB'  
0 10 30 60



# 3D VIEWS



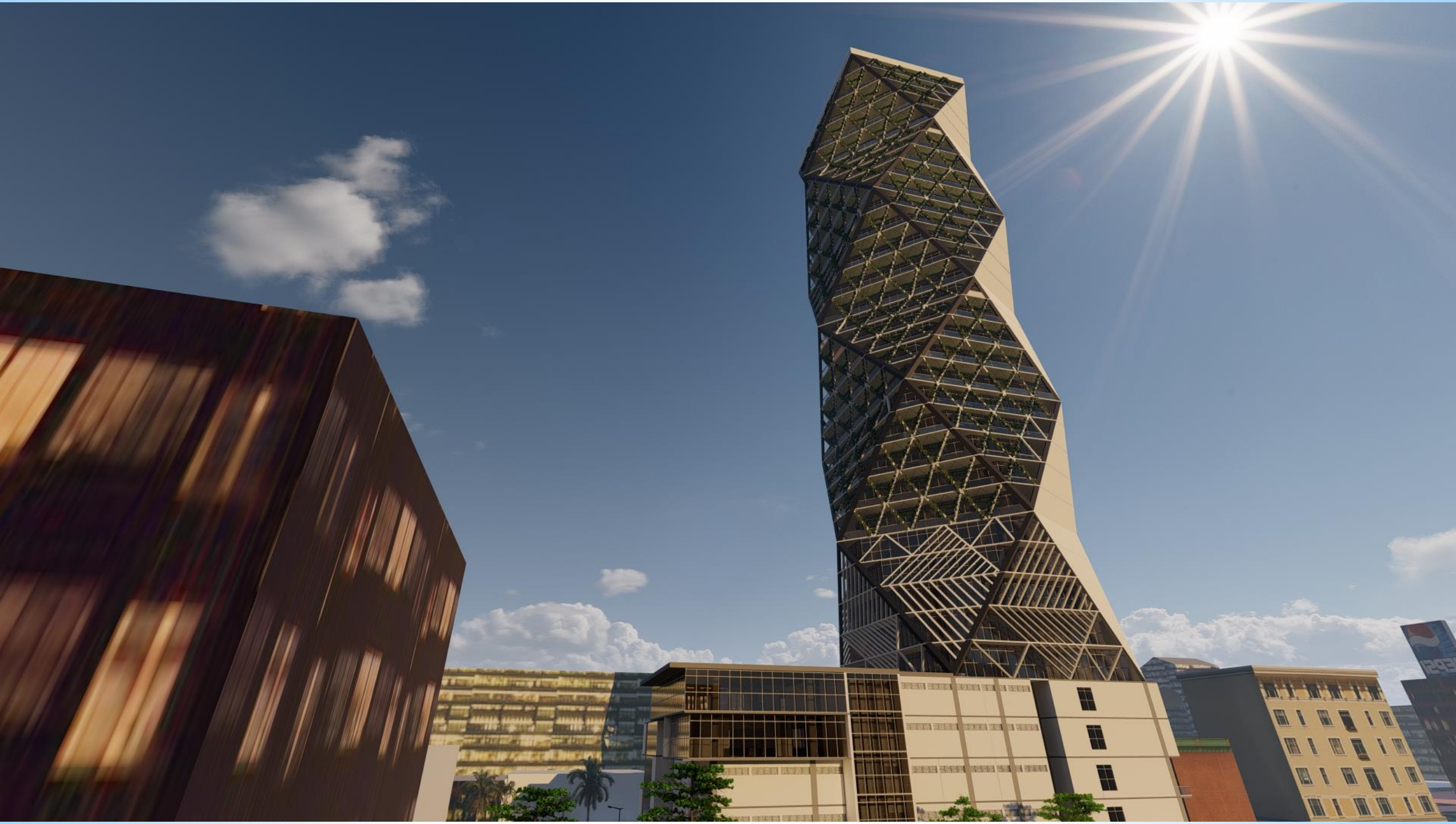


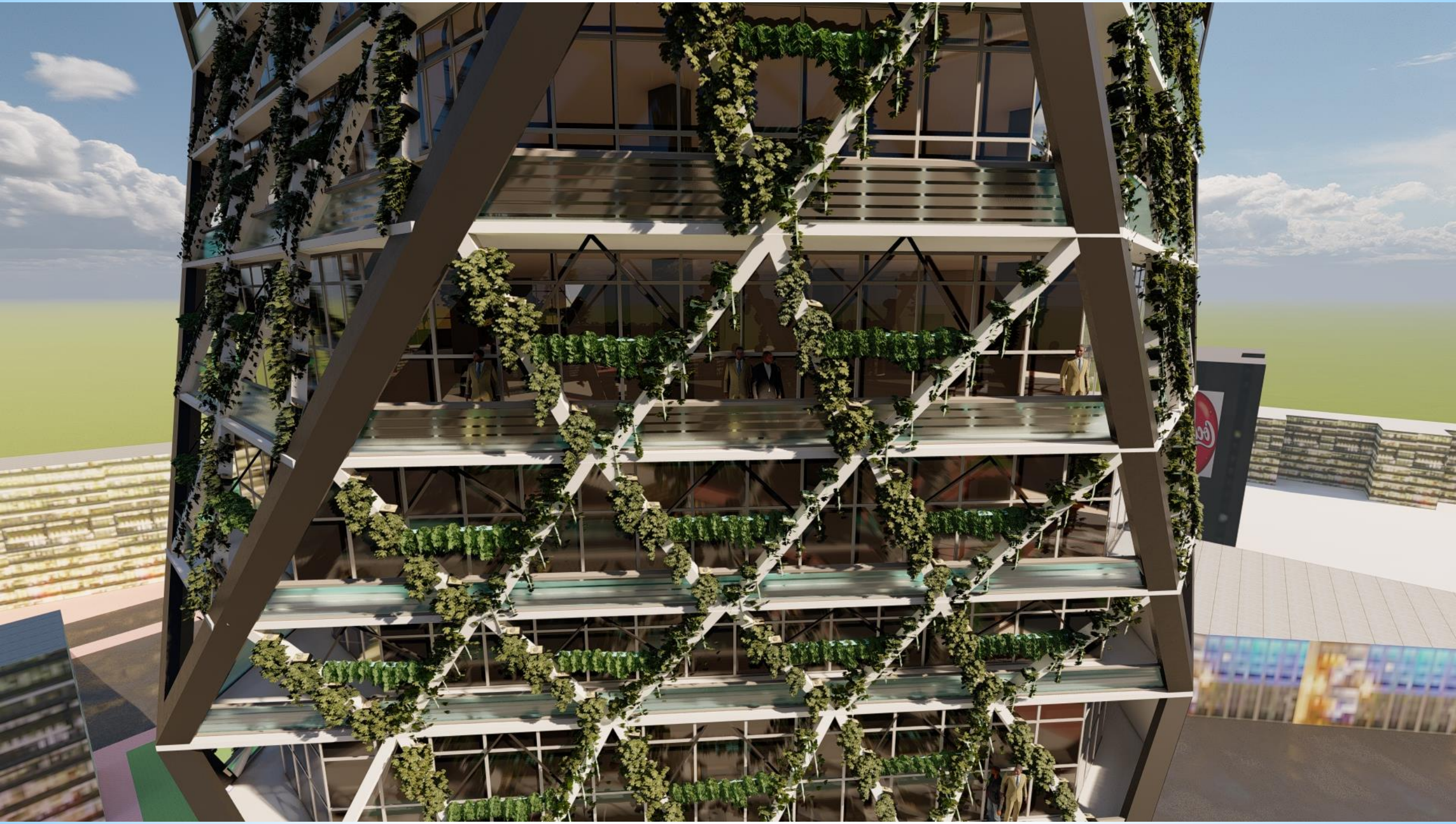


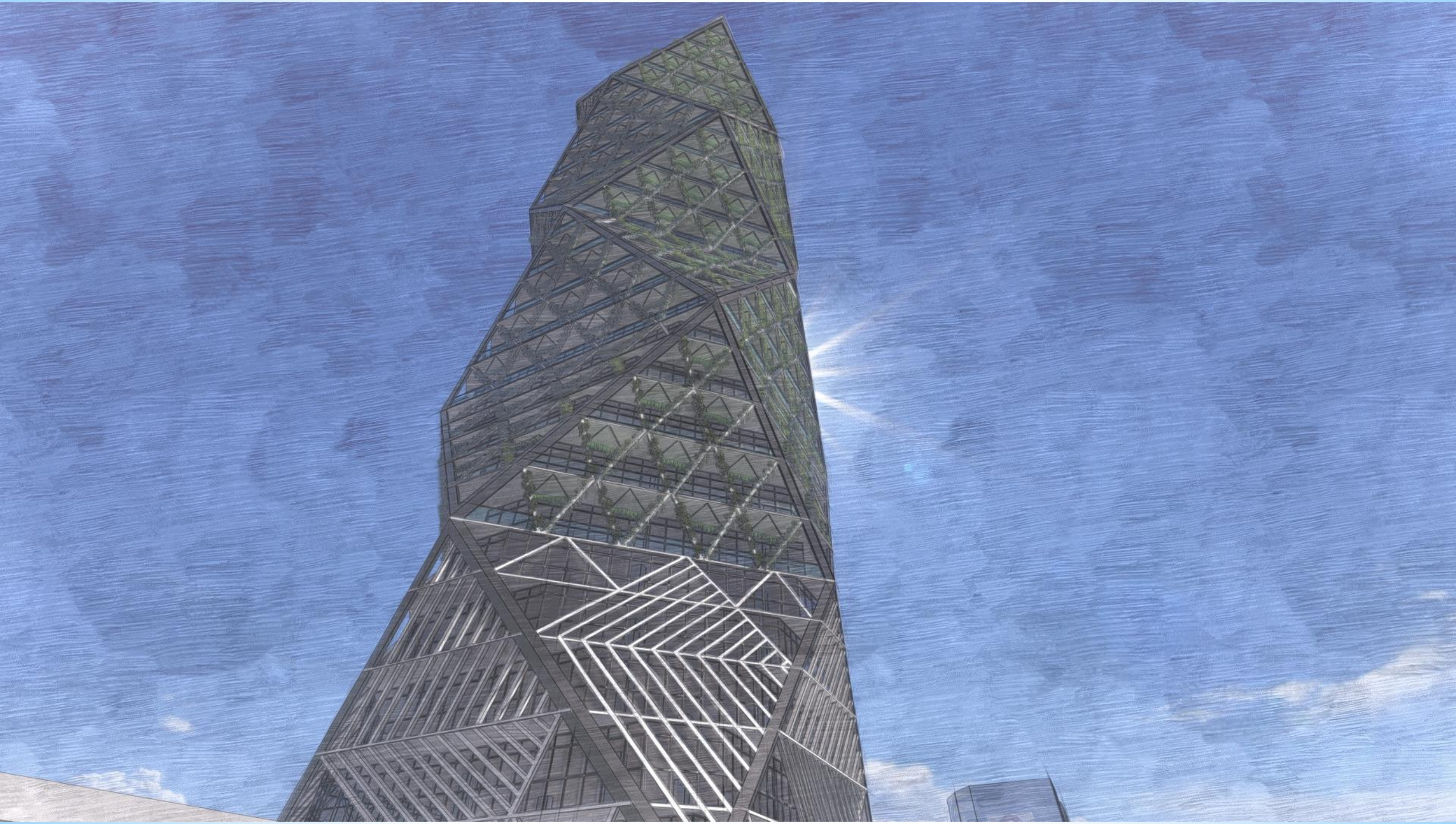


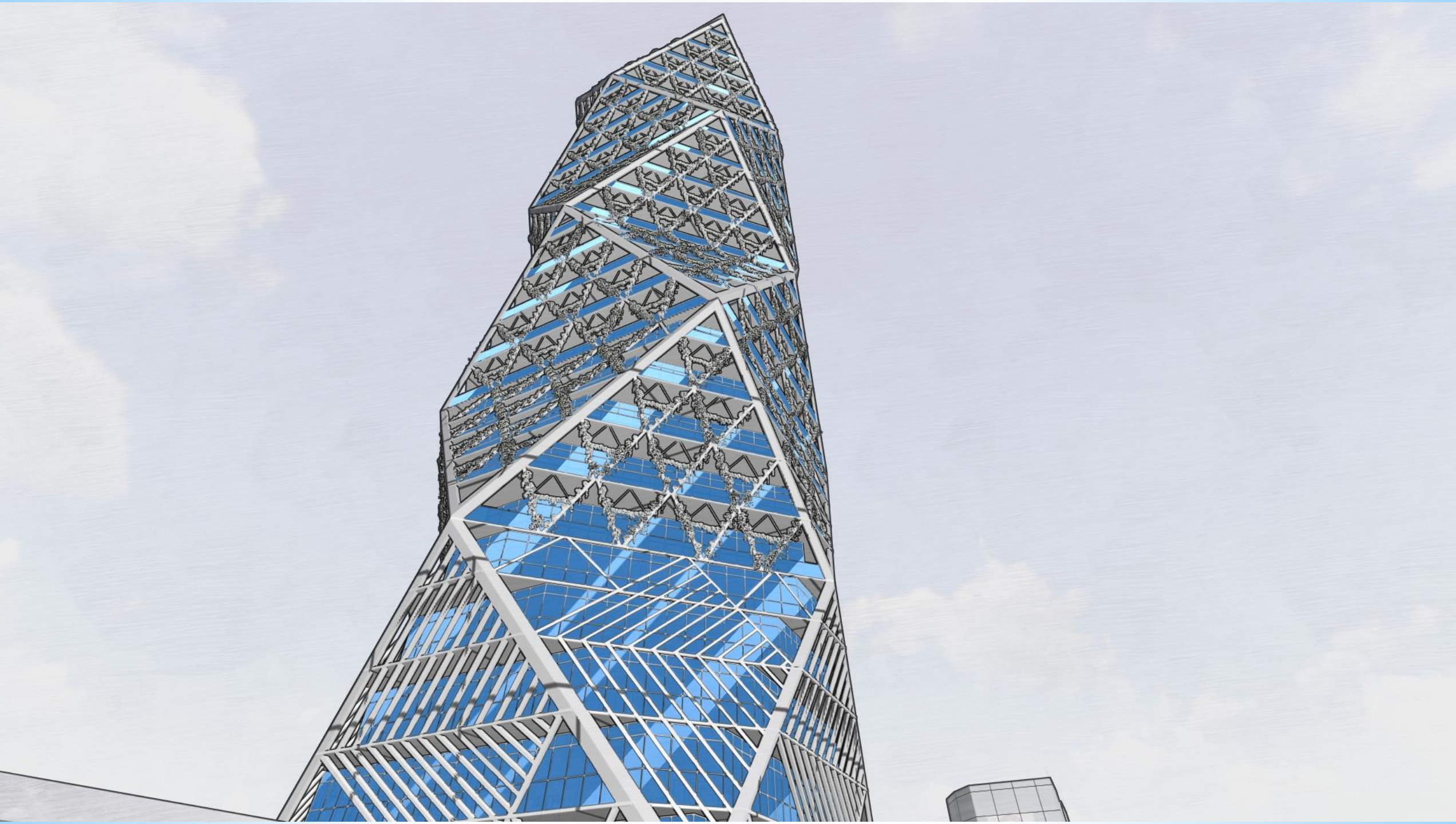


















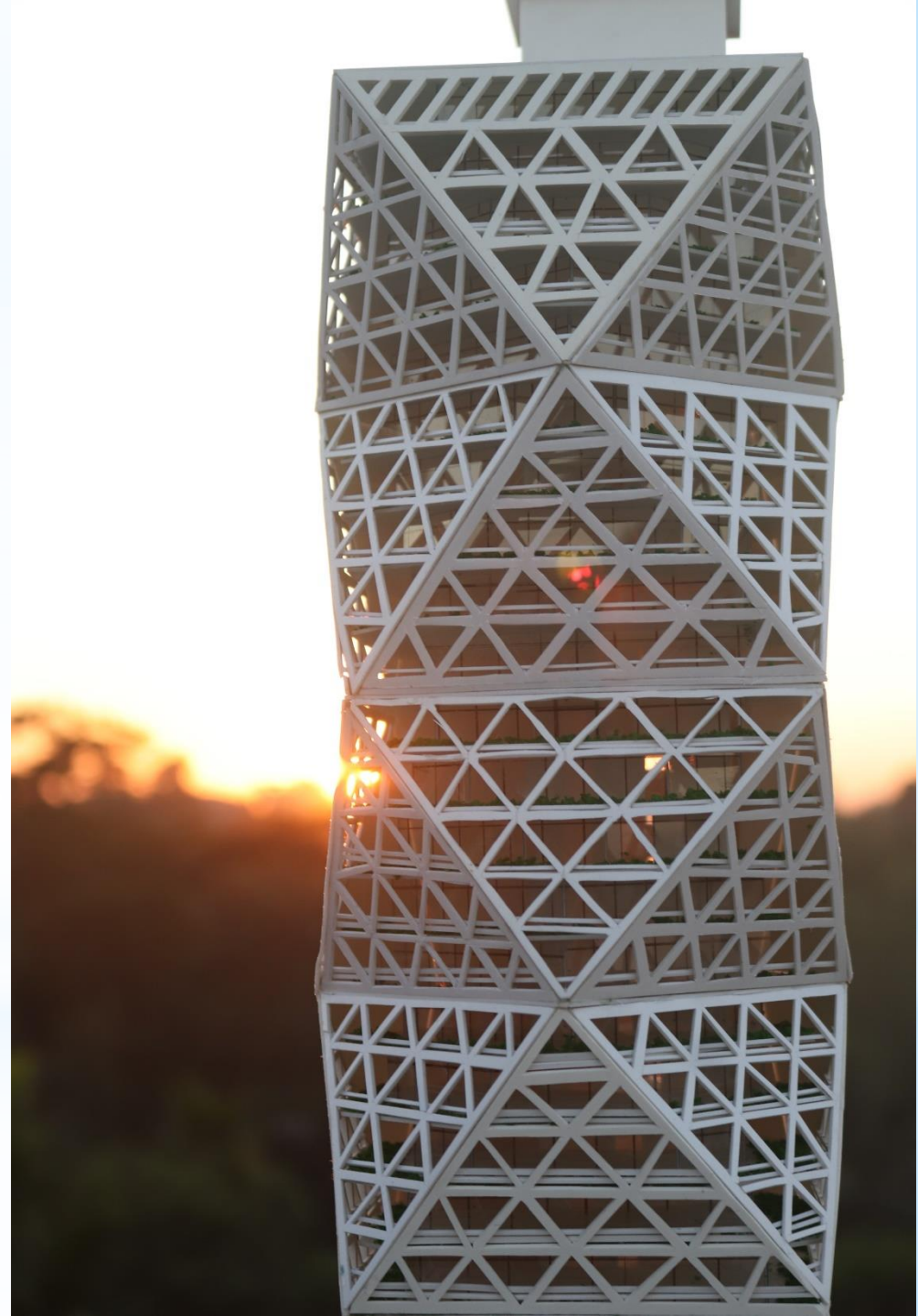
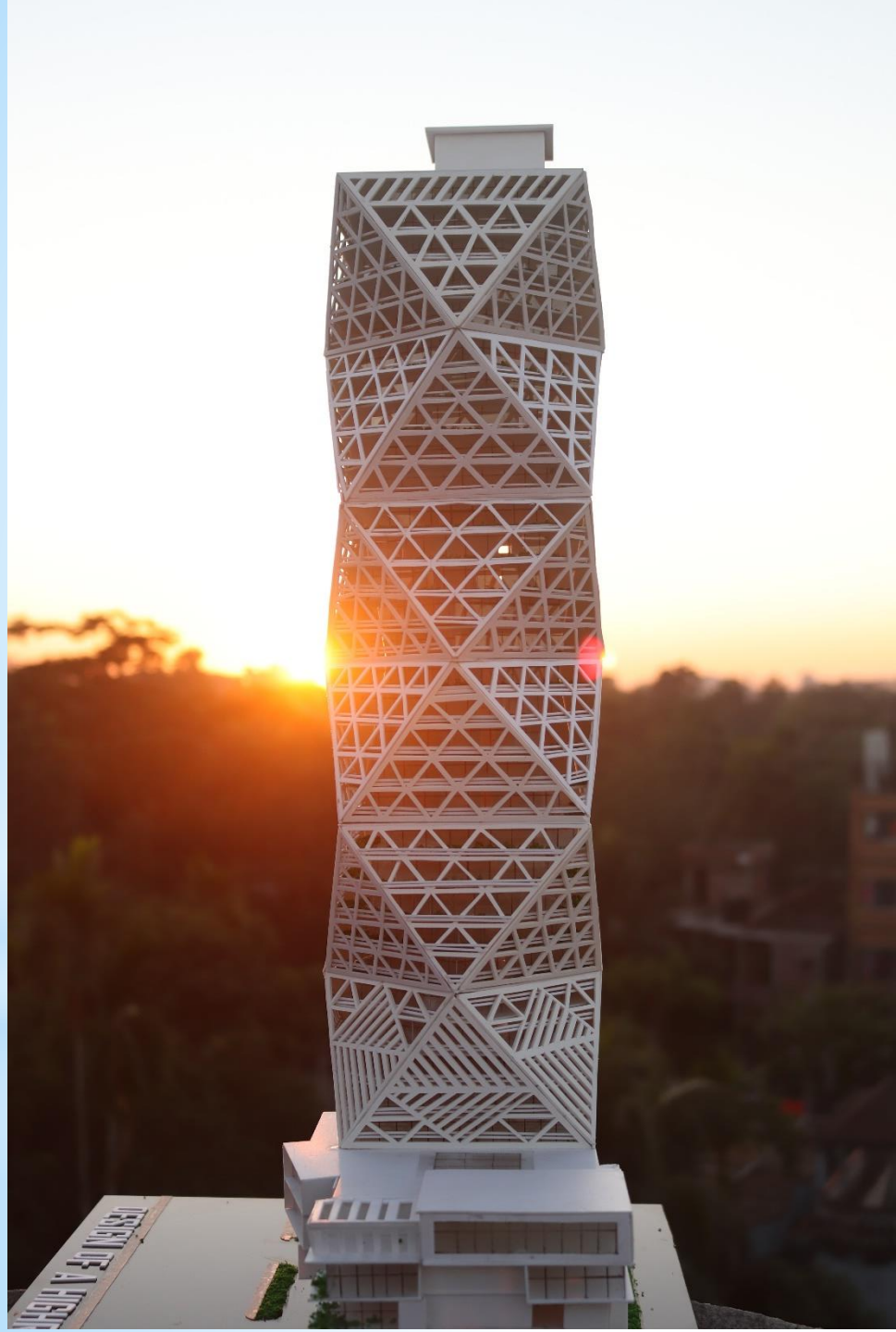




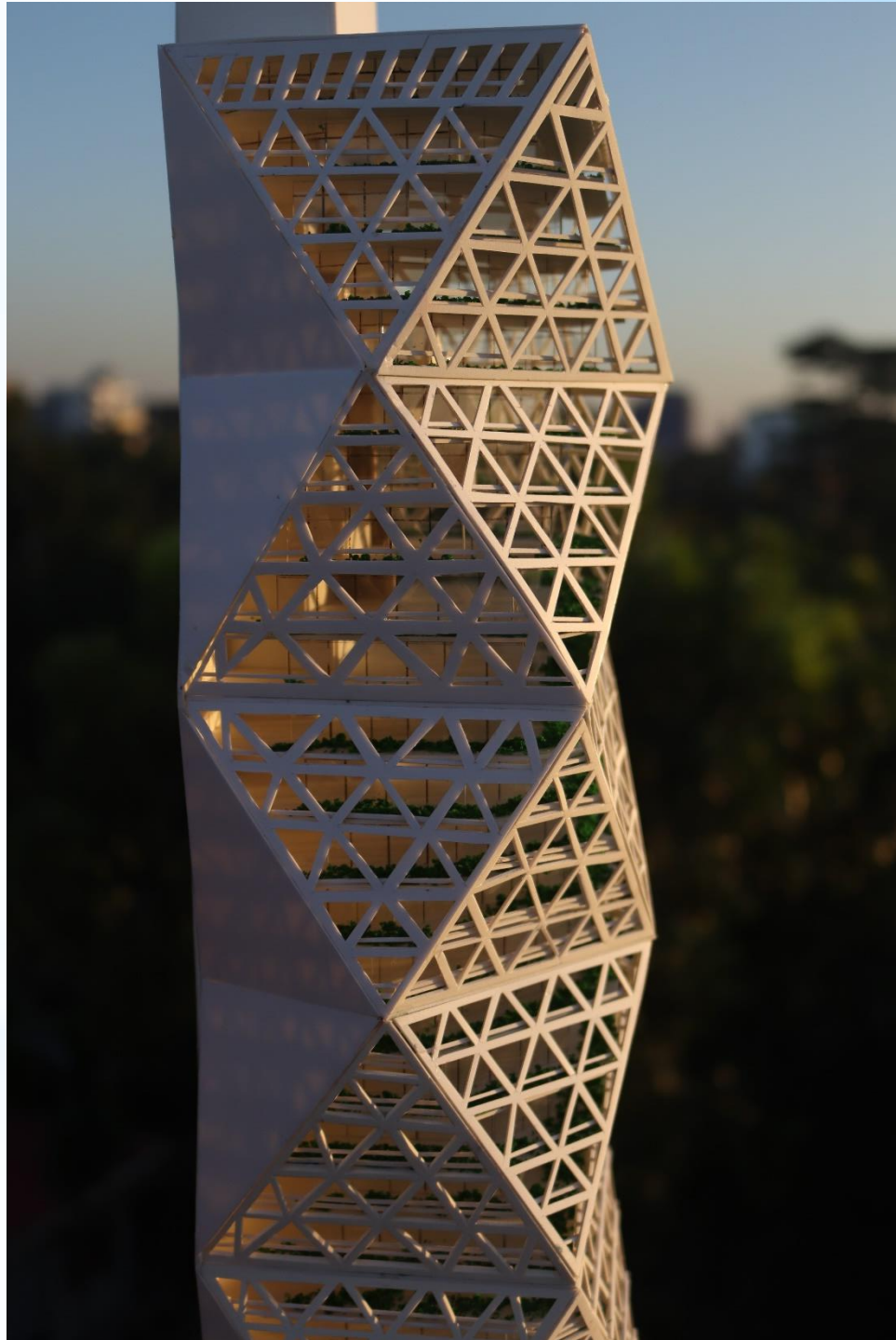
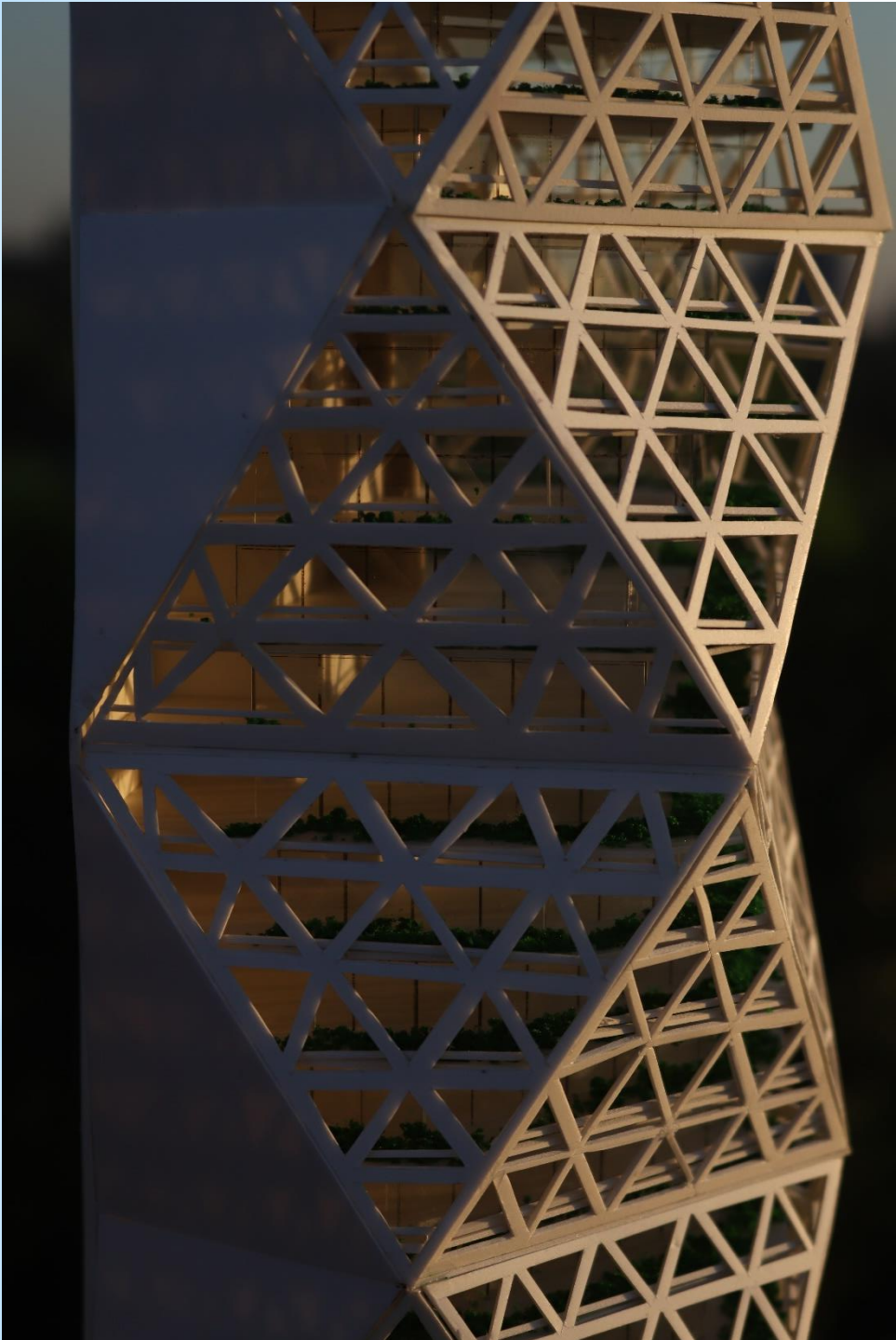


Hand made model



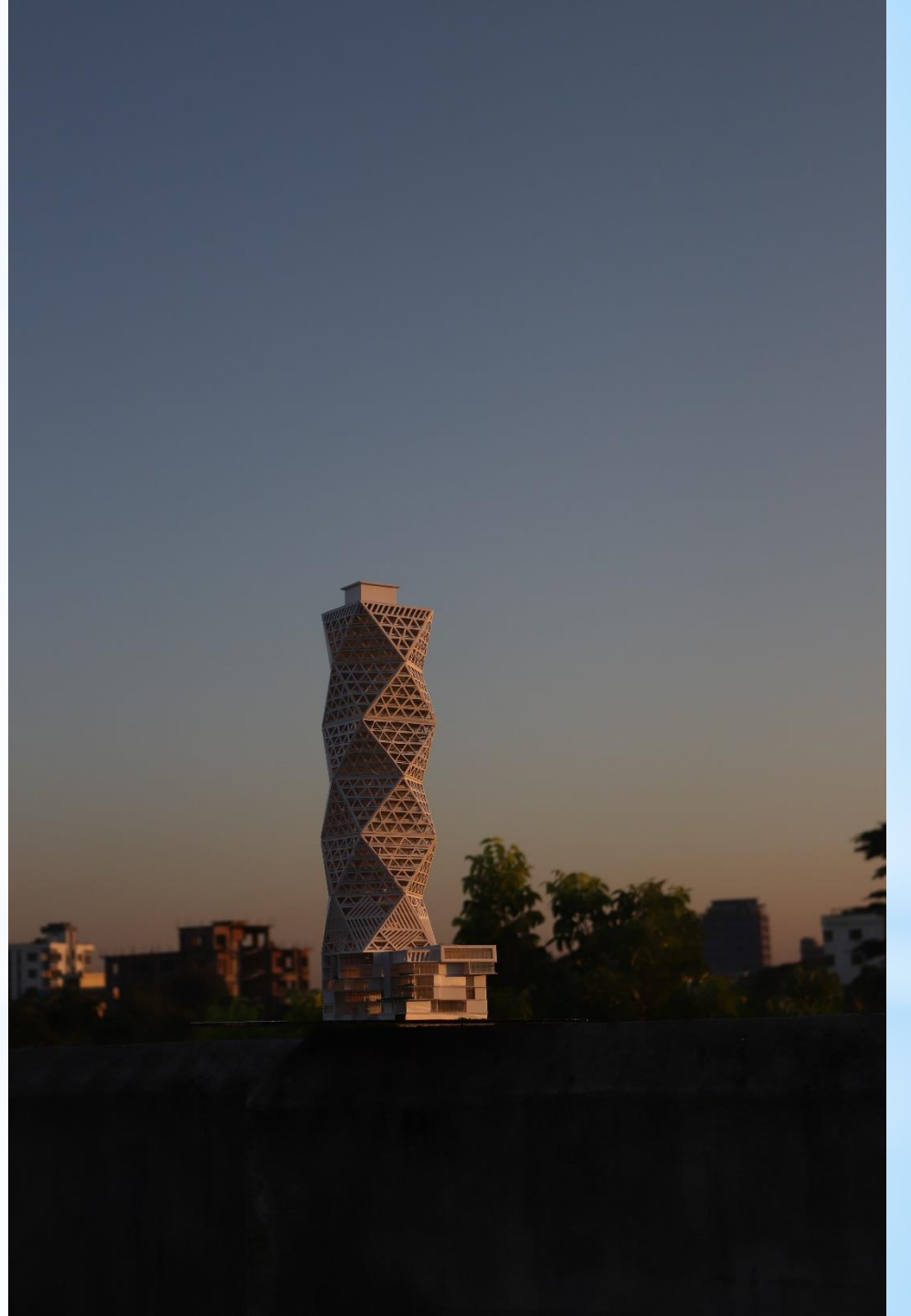


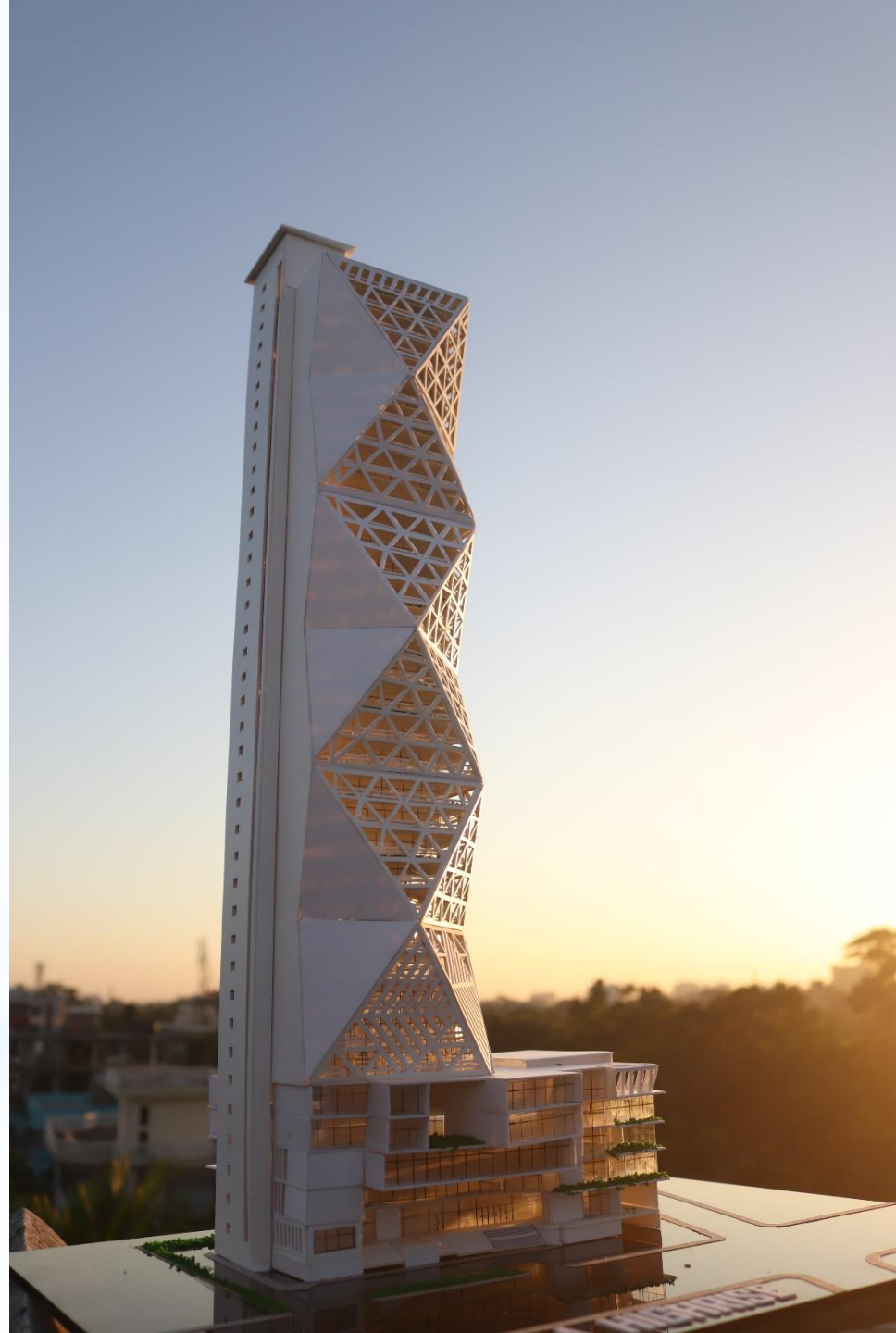
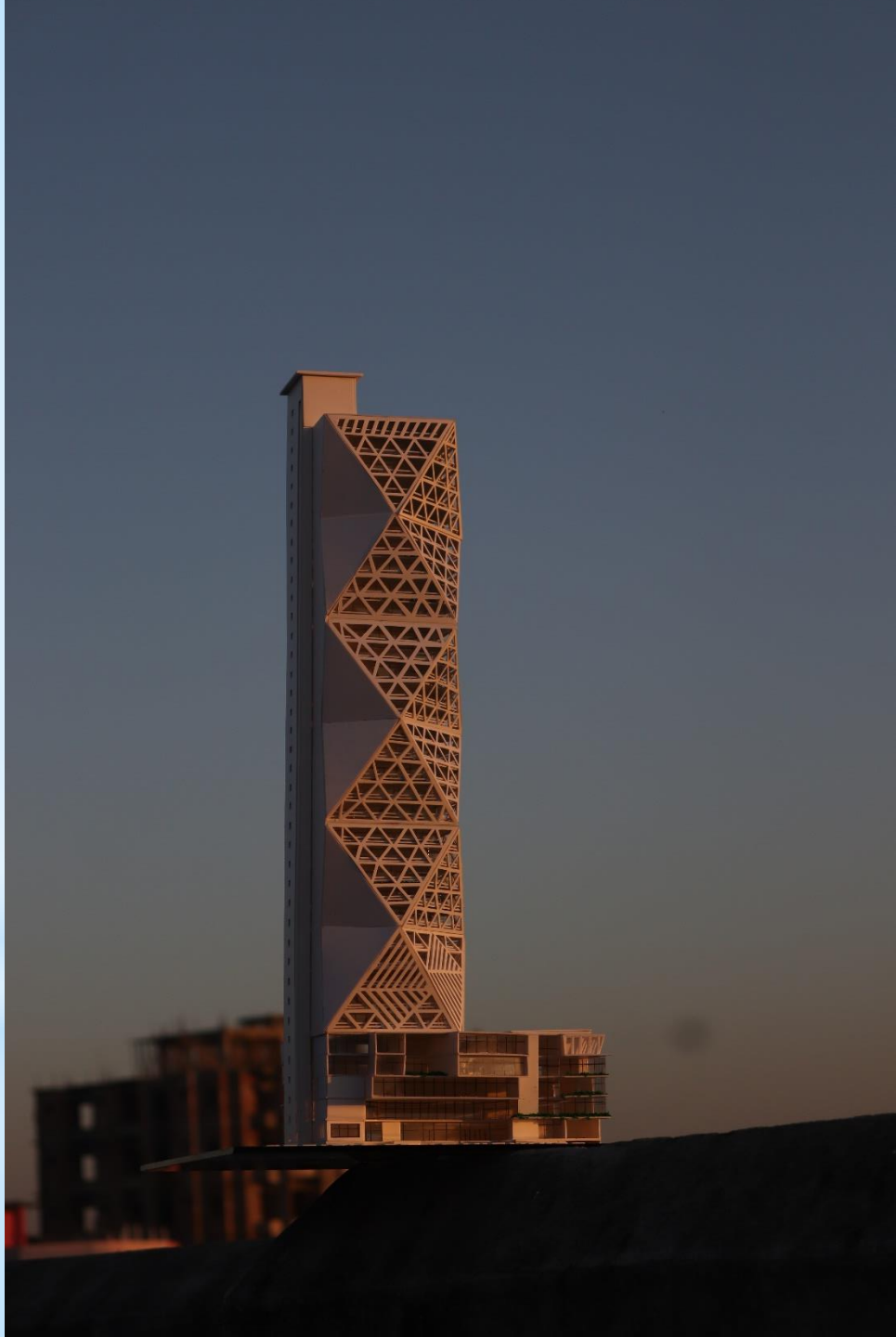






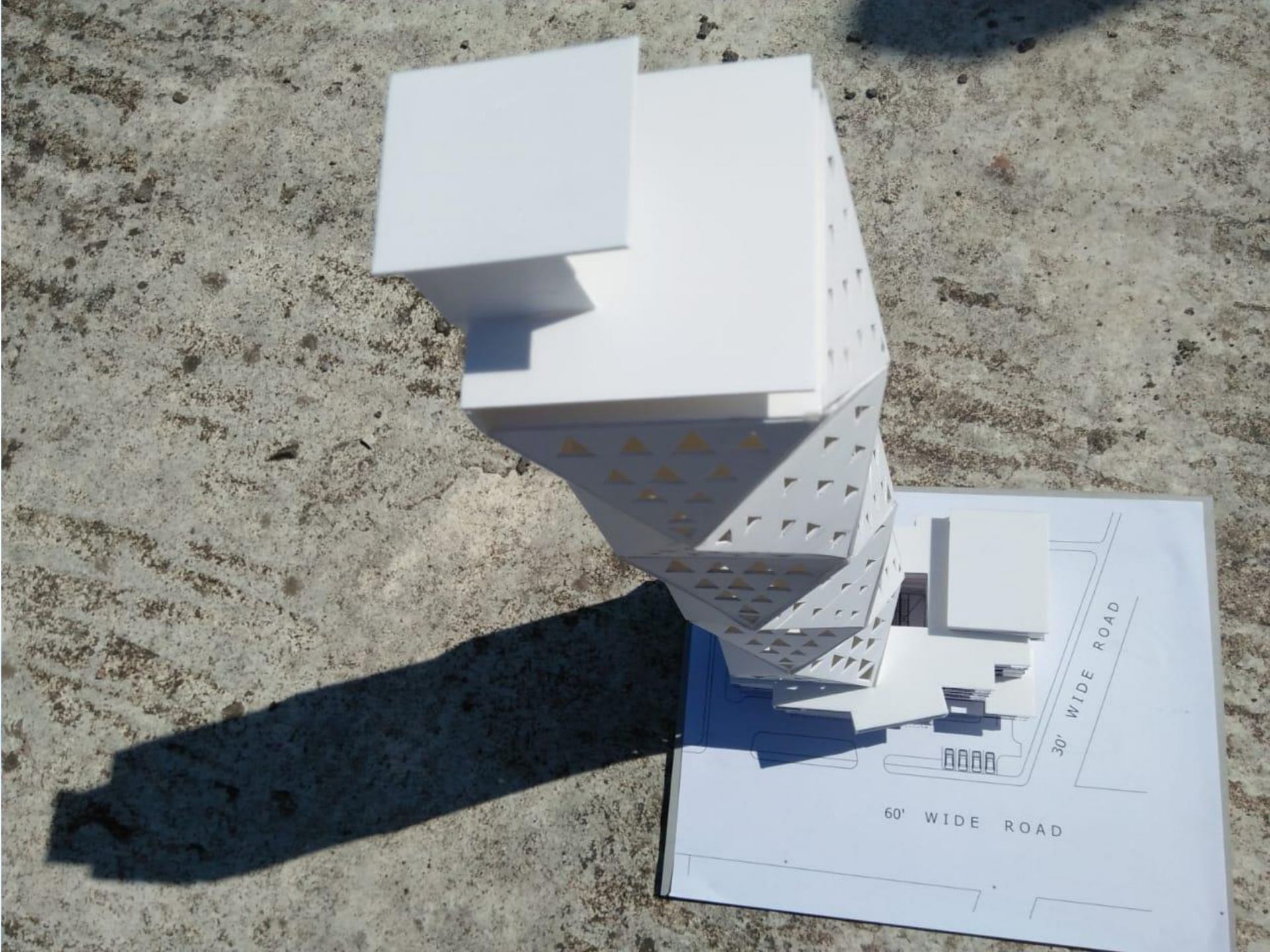
DESIGN OF A HIGHRISE







**PRILIMINARY MODEL**





An aerial architectural rendering of a city. A prominent, tall, cylindrical tower with a complex, lattice-like facade is the central focus. The tower is surrounded by various other buildings, including rectangular blocks and smaller structures. The scene includes streets, parking lots with cars, and green spaces. The overall style is a clean, digital architectural visualization. The text "THANK YOU" is overlaid in a bold, blue, sans-serif font in the upper right quadrant.

**THANK YOU**