

THESIS REPORT ON
“SHOPPING MALL , GURUGRAM, H.R.”

**A THESIS SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF:**

BACHELOR OF ARCHITECTURE
BY

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THESIS GUIDE
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TO THE
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LUCKNOW.

**SCHOOL OF ARCHITECTURE AND PLANNING
BABU BANARASI DAS UNIVERSITY, LUCKNOW (U.P.).**

CERTIFICATE

I hereby recommend that the thesis entitled “**SHOPPING MALL CUM MULIPLX**, GURUGRAM , HR. “ under the supervision of PROF. MOHIT AGARWAL , is the bonafide work of the student and can be accepted as partial fulfillment of the requirement for the degree of Bachelor’s degree in architecture, school of Architecture and Planning, BBDU, Lucknow.

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CHAPTER 1 : INTRODUCTION**CHAPTER 2 : SITE STUDY**

2.1-Site Location and Surroundings

2.2-Byelaws

2.3-Inferences

CHAPTER 3 : CLIMATE STUDY**CHAPTER 4 : CASE STUDIES**

4.1-Case Study 1 :

(Dlf mall of India , Noida)

4.2-Case Study 2 :

(Vegas Mall , New Delhi)

4.3-Literature Study 1 :

(DLF Promenade , New Delhi)

4.4-Literture Study 2:-

(Dubai Mall , Downtown Dubai)

CHAPTER 5 : COMPARATIVE ANALYSIS**CHAPTER 6 : STANDARDS****CHAPTER 7 : DESIGN CONCEPTS AND FLOWCHARTS**

8.1-Concept

8.2-Zoning

8.3-Views

CHAPTER 8 : AREA ANALYSIS

CHAPTER 9 : FINAL STAGE/FINAL DESIGN PROPOSAL

- 10.1-Layout Plan
- 10.2-Floor Plans
- 10.3-Elevations
- 10.4-Sections
- 10.5-3D Views
- 10.5-Model Views

CHAPTER 10 : ELECTIVES

- 9.1-LANDSCAPE
- 9.2-WORKING DRAWINGS

CHAPTER 11 : BIBILOGRAPHY

SITE STUDY

SHOPPING MALL

In the fast developing world these days the population is also developing rapidly , so that the small town & cities are changing into metropolitan cities. There is scarcity of land and the businesses growing & expanding very fast. Therefore multistoried buildings for commercial organizations are being constructed. It is a concept of planning different activities in one building resulting in an economic use of land & also efficient use of spaces for entertainment purpose cinema, shopping & related activities. So a commercial Complex is a place which includes shopping malls, Food courts, multiplexes , entertainment centers, office complexes etc.

AIM

- . To design a commercial mall which will cater the needs of the people living in great Noida city at all levels and keeping in mind the sustainable and solar architecture.
- . To create an interrelationship between open, semi-open and covered spaces and to incorporate landscape design such that it forms an integrated space thus connecting the built up spaces to the landscaped area.
- .To create a space which can form the node for holding and experiencing commercial, cultural and social activities.
- . To create the centre this will be committed to provide a platform to the traders for their business.
- . The centre will be planned as an integrated system of building and open spaces having an Indian signature.

What is Mall:

The term "**mall**" originally meant a place where people played pall-**mall**, a game similar to croquet. By the mid 1700s it had come to mean a tree-lined park where people went to walk and socialize. ... During the 1800s, it was sometimes **called** a "**mall**" but also just "the public grounds."

Purpose of the Mall:

A shopping **mall's** sales marketing plan describes the strategies the **mall** management will deploy to attract and retain tenants and to bring in more shoppers to these stores. Preparing a plan is critical to success because shopping **malls** compete with each other and with other retail clusters, such as shopping centers.



ABOUT GURUGARAM

GURUGRAM is a city just southwest of New Delhi in northern India. It's known as a financial and technology hub. The Kingdom of Dreams is a large complex for theatrical shows.

CLIENTS: Haryana Urban Development Authority
LOCATION: Gurugram ,sector-47, Haryana
SITE AREA: 21.21 Acres
PROJECT: Commercial

SITE AMINITIES



BUILDING BYE LAWS

F.A.R.-1.75

GROUND COVERAGE 60%

HEIGHT-NO RESTRICTIONS

PARKING - @1 ECS FOR 50 SQM. SHOPPING MALL

WAY TO REACH

33.7 KM FROM THE NEW DELHI RAILWAY STATION

19.1 KM FROM THE INDRA GANDHI INTERNATIONAL AIRPORT

DIRECT ACCESS BY THE CAR AND BIKE VIA DELHI SHONA ROAD

MAJOR SURROUNDING LANDMARKS

GURUGRAM IS LOCATED IN NEW DELHI IN NORTHERN INDIA
 DLF CYBER HUB,
 KINGDOM OF DREAMS,
 AMBIENCE MALL,
 SHEETLA MATA MANDIR,
 SAI KA ANGAN TEMPLE,
 SULTANPUR NATIONAL PARK,
 NEVERENUF GARDEN RAILWAY,
 LEISURE VALLEY PARK,

POPULATION AND AREA

-POPULATION -20 LAKHS
 -TOTAL AREA -73,200 HECTARE



MASTER PLAN



CLIMATE

THE CLIMATE OF GURUGRAM IS MONSOON INFLUCED HUMID SUBTROPOCAL CLIMATE WITH HIGH VARIATION BETEEN SUMMER AND WINTER TEM. AND PRECIPITATION

SERVICES**ELECTRICAL SUB STATION**

HIGH TENSION LINES AND LOW TENSION LINES COULD BE TAKEN FROM ELECTRIC POWER STATION WHICH IS NERABY

ELECTRIC POLE

ELECTIRC POLE ARE RUNNING ALONG THE SIDE



DRAIN ALONG THE ROAD

SEWER LINE

SEREWRLINES ARE RUNNING ALONS THE ROADS UNDER THE PATHWAY

REQUIREMENTS**MULTIPLEX SHOPPING-**

- 1- RETAIL SHOP
- 2-SUPER MARKET
- 3-ANCHOR SHOWROOM
- 4- KIOSKS

RECREATION-

- 1- KIDS PLAY AREA
- 2-BILLIARDS POOL
- 3- BOWLING ALLEY
- 4- VIDEO GAME STATION
- 5- CYBERCAFE
- 6- TABLETENNIS
- 7- GYM & SPA

SERVICES-

- 1- PARKING
- 2- AIR CONDITIONING
- 3- WATER SUPPLY
- 4- RAIN WATER HARVESTING
- 5- FIRE FIGHTING
- 6- STAIRCASE
- 7- FIREESCAPE STAIRCASE

TOILET-

- 1- MALE TOILET
- 2- FEMALE TOILET
- 3- HANDICAPPED TOILET

TYPE OF PROJECT: SHOPPING MALL (RETAIL)

CLIENT NAME: DLF PVT. LTD.

ARCHITECT: BENOY ARCHITECTS

CONSTRUCTED BY : TURNER INTERNATIONAL

LOCATION : NOIDA SECTOR-18 (UP)

AREA : 53,825 SQ MT

FLOORS : G+5

BASEMENT : 4 LEVEL

FACILITIES : 7 STAR DT SCREEN , SHOPS
FOODCOURT WITH 1200 SEATING
HAYPER MARKET, KIDS ZONE

PARKING : MULTI LEVEL PARKING (1700 CARS)
AND 550 BIKES



. The mall is spread over 7 floors, and includes 330 brands, 80 kiosks, 5 customized shopping zones, along with 75 food and beverages options and a movie theatre (PVR Cinemas) with 7 screen

THE MALL IS DIVIED IN 5 ZONES AND SPEARD IN 7 FLOORS,

SURROUNDINGS



CONCEPT:

-Indian in essence & International in approach.

-DLF Mall of India introduces the international concepts of retail in a form suitable for the Indian customer.

-The concept to categorized the mall into 'zones' which focuses on making a mall experience more convenient and enjoyable than before

-There are five zones and are categorized as

-Market place

-International Boulevard

-Family World

-The High Street

-The Leisure Land

The other impressive features of the Entertainment City will include:

- Iconic Family Entertainment Format
- Premium Ice-skating Format
- Unique Entertainment Zones and Sports Bars

No. of entry into the mall building : 2 Entries at the Ground Floor (East & west Gate)

No of gates to enter the mall

: 9 access gates

(for ingress & egress movement)

SUSTAINABLE INITIATIVES

1. energy-efficient air-conditioning system with 20 per cent less energy consumption.
2. Solar power plant of 40 kw for using solar energy.
3. Solar water heater of 4,000 litre, which helps save electrical energy.
4. Ventilation fans coupled with CO sensor in car parking.
5. Over deck insulation with solar reflective index (SRI) finish.
6. Pumps and fans coupled with variable speed drives to save energy.
7. Sequencing batch reactor for wastewater treatment with the latest technology.
8. Organic waste converter for wet garbage.
9. The main structure shell and core of the building is reinforced cement concrete,
10. selected for its robustness and durability, along with a high performing fire rating.
11. the mall boasts of 100 percent treatment and reuse of the waste water generated onsite and storm water management system consisting of rain water harvesting tanks and bore wells to recharge ground water.

MATERIAL

FACADE

The exterior façade is provided by steel framework having steel -jails, ACP sheets cladding and glass.

INTERIOR .

The interior flooring using Italian stone and glass wooden flooring

GREEN BUILDING

The DLF Mall Of India has successfully achieved LEED: CS Gold Rating awarded by

Indian Green Building Council.

Special features like-

Roof top insulation

Exterior wall insulation

Rain water harvesting

Skylight

Energy efficient glass

Efficient water fixtures

Water treatment plant

Reduced WWR

Native vegetation in Landscape

SERVICES

WATER

The mall boasts of 100 percent treatment and reuse of the waste water generated

onsite and storm water management system consisting of rain water harvesting tanks and bore wells to recharge ground water.

FIRE FIGHTING SYSTEM

Fire detection system

Sprinkler system

Portable fire extinguishers

Fire department system

Fire hose were provided after every 30m and near every fire escape

POWER SUPPLY

Power comes from the near power plant .

They having a dg set which is in the basement

They having a solar plate also.

They having 4 dg set

Lifts

Passenger lifts -16 person (06 no's)

Service lifts available - 1600 kg (4 no's)

Escalator available

PARKING

Parking space to accommodate
1700 cars

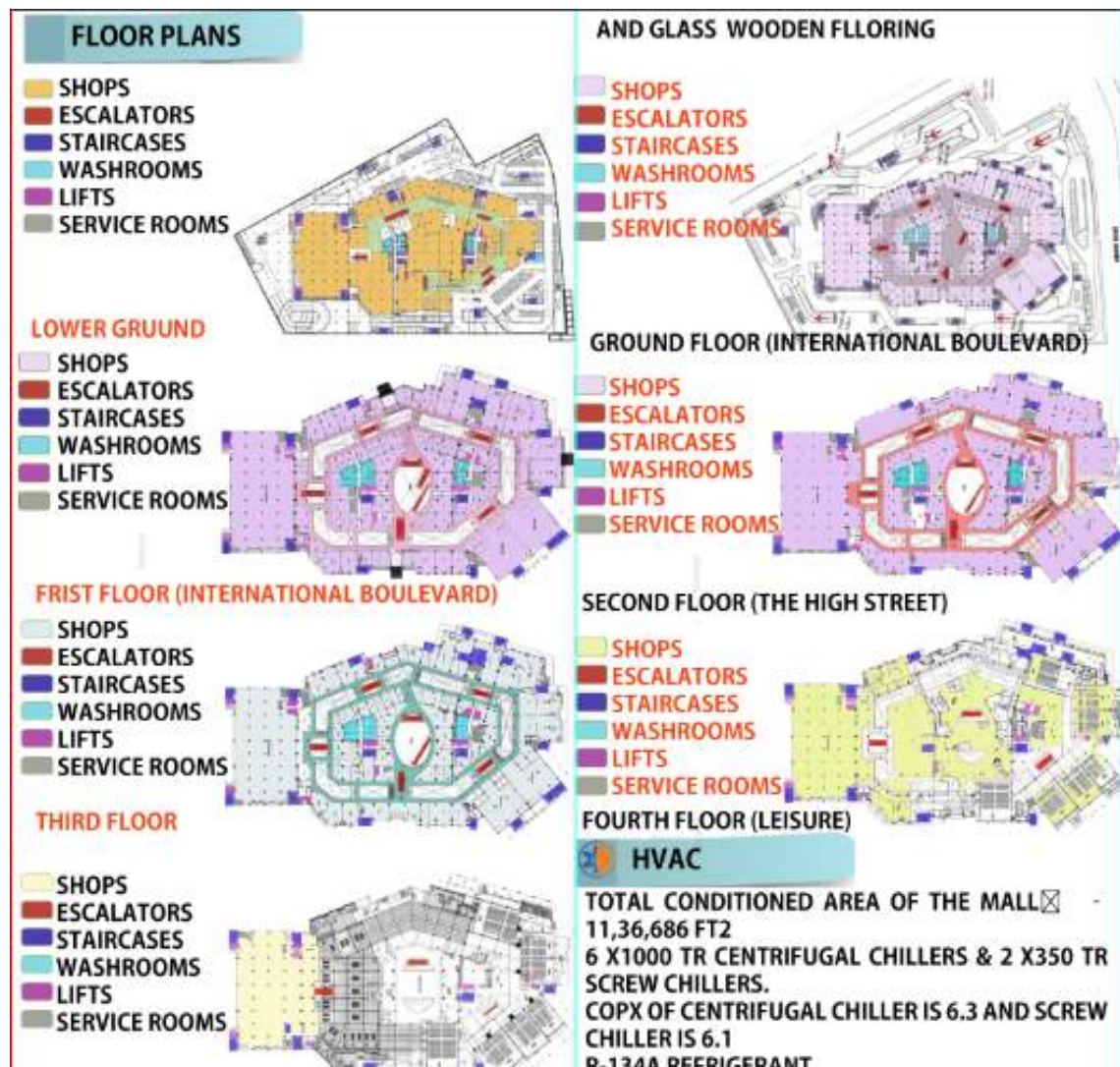
600 two-wheelers.\

Ventilation fans coupled with co₂ sensors in parking.

Specifically lifts are opened in fire safety exits having very bulky, man
less doors to pull.

Multilevel parking in 3 level p1,p2,p3

Height of basement is 3.2m from the floor level



TYPE OF PROJECT: MIXED COMMERCIAL PROJECT

CLIENT NAME: PRATHAM GROUP.

ARCHITECT: Bentel Associates International

CONSTRUCTED BY : Pratham Infratech Pvt. Ltd.

LOCATION : DWARKA SECTOR -14 (DELHI)

AREA : 28000+SQ MT (11500 SQ.MT MALL)

FLOORS : G+5

BASEMENT : 4 LEVEL

FACILITIES : 12 SCREEN SUPERPLEX, SHOPS
FOODCOURT, RESTAURANT
HAYPER MARKET, KIDS ZONE

PARKING : MULTI LEVEL PARKING (1350 CARS)
AND 1037BIKES



. CONCEPT

The mall style is contemporary

The building is planed proper building concept.

They used new technology to optimize the energy requirement and proper landscaping element at the entrance also used for sitting spaces for create great gathering in the mall.

Mall divide into 4 zones

No. of entry into the mall building : 3 Entry / EXIT at the Ground

No. of gates to enter the mall

: 4 access gates

(for ingress & egress movement)



COMMUNITY SPACE

Kiosks are made in order to gather and endure the environment.

For informal meetings there were assembly points outside the building too.

A Mall/supermarket appeals because of its pleasant surroundings, better product display and the availability of a wide variety of brands.

The PVR SUPERPLEX Cinemas also has special treat for kids in the form of a unique auditorium for children with a specially designed kids candy bar.

SURROUNDINGS



SITE CONNECTIVITY



26.1 KMS FROM NEW DELHI RAILWAY STATION

500m.FROM SECTOR-14 METERO DWARKA
DELHI



19.4 KMS FROM IGI AIRPORT



DIRECTLY ACCESS BY THE CAR VIA OUTER
RING ROAD

FLOOR PLANS



LEVEL LG : MARKET PLACE, HYPERMARKET | HOME FURNISHING AND INTERIORS | VALUE FASHION | SERVICES TOILETS, LIFT



LEVEL GF :
ZONE-3 ATTRIUM AREA , TOILETS, FIRE EXITS
ZONE-2 STORES,TOILETS, FIRE EXIT LITS
ZONE -4 STORE, FIRE EXIT
MALL HAVING A COORIDOR PLANNING , SOME SHOPS ARE DOUBLE HEIGHTED AND IN THE FLOOR



LEVEL FF :
ZONE-3 ATTRIUM AREA , TOILETS,SERVICE LIFT , FIRE EXITS
ZONE-2 STORES,TOILETS, FIRE EXIT
ZONE -4 STORE, FIRE EXIT 3
MALL HAVING A COORIDOR PLANING , SOME SHOPS ARE DOUBLE HEIGHTED AND IN THE FLOOR



LEVEL SF :
ZONE-3 ATTRIUM AREA , TOILETS,SERVICE LIFT , FIRE EXITS
ZONE-2 STORES,TOILETS, FIRE EXIT
ZONE -4 STORE, FIRE EXIT 3
MALL HAVING A COORIDOR PLANING , SOME SHOPS ARE DOUBLE HEIGHTED AND IN THE FLOOR



LEVEL THIRD : DIVIED INTO THE 3 ZONE
ZONE -2, ZONE -3 ZONE-4
ENTERTAINMENT-PVR SUPERPPLEX,
IMAX, PVR LUXE, PVR PLAYHOUSE, 4DX
FOOD COURT, LIFT, TOILETS FIRE EXITS



LEVEL 4TH AND 5TH : IT IS DEDICATED FOR FUN CITY, AND RESTAURANT
TOILETS LIFTS FIRE EXIT



WATER

water harvesting pit surrounded of the mall.

storm water management system consisting of rain water harvesting tanks and bore wells to recharge ground water.

LIFTS

4 Escalator 8 Passenger Lift (16 Person)
2 Service Lifts

**POWER SUPPLY**

Here in this shopping mall greater care have been taken in terms of supply of electricity. Electricity is reqd. In large scale for air-conditioning, lifts, escalators and other lighting purposes flow of electricity in a shopping mall is shown below in a flow diagram:

Generators given in the basement these transformers have h.T line

There are 4 dg set

They using solar plate also for saving electricity solar plate direction is south west

PARKING

Multilevel parking facility for accommodating 1350 cars and 1037 bikes

There is four basement level

FIRE FIGHTING

Fire detection system

Sprinkler system

Portable fire extinguishers

Fire department connection



TYPE OF PROJECT: SHOPPING MALL (RETAIL)

CLIENT NAME: DLF PVT. LTD.

ARCHITECT: CHHADDA SIEMBIEDA ASSOCIATES LTD.

CONSTRUCTED BY : Pratham Infratech Pvt. Ltd.

LOCATION : VASANT KUNJ, NEW DELHI

AREA : 42890SQ MT

FLOORS : G+2

BASEMENT : 3LEVEL

FACILITIES : PVR ICON CINEMAS WITH 7 SCREENS
FOODCOURT (400 GUEST CAPACITY)

PARKING : MULTI LEVEL PARKING (1000 CARS)



SURROUNDINGS

Dlf promenade is a fashion mall which is why the zoning is planed out in a way where all the fashion brands are evenly spread out over the 2 shopping floor (g+) the entire second floor is a mix of f&b brands, cinema, spa, salon ,gifts stationary and books



CONCEPT

The building is planned an proper building concept.

With stage of art technology to optimize energy requirement and proper landscaping elements at the entrance also used sitting spaces for create great gathering in the mall

CIRCULATION :

Staring form the main entrance having an interesting landscaping feature which helps in increasing the human interest having a ramp which leads to the drop off area at entrance 12 lift 4 escalators and many staircase are provided in the complex there is also an open dining space provided.

FLOOR PLANS



SITE PLAN

INTERIORS: of mall have contemporary style having luxurious theme.

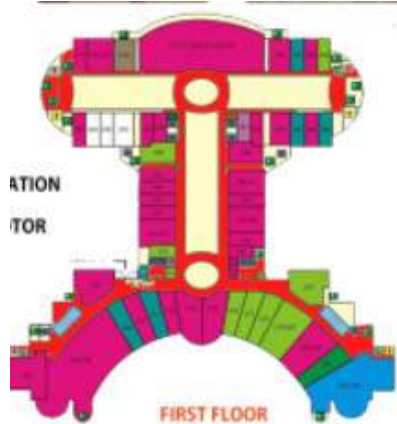
MATERIAL: cornices, false ceiling, marble and tiles are used. Indoor landscaping as plants: are also provided



GROUND FLOOR



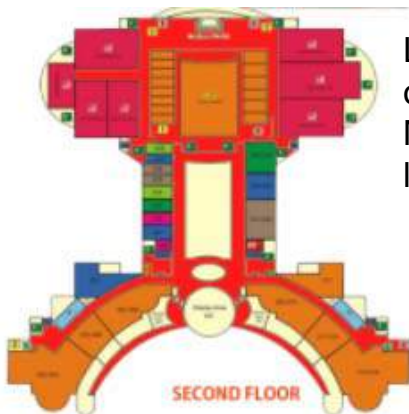
Corridor planning, many shops are double heighted 6 toilet are placed at the wing corridors, 2 toilets for handicapped.



FIRST FLOOR



Atriums are provide , 6 toilet are placed at the wing corridors, 2 toilets for handicapped.



SECOND FLOOR

Large food court provided (57000sqft.) One of the largest cinema complex in Delhi. Multiplex covering 74000 sqft. Of area landscaping features are in terrace



SERVICES**#WATER :**

Requirements are planned to be met partly by tankers and partly by rainwater harvesting.

Water (recycling) used for flushing landscaping

Gravity and hydro pneumatic system are used in water distribution system.

HVAC

The air conditioning system is air cooled chills instead of water cooled chillers to restricts and conserve the water requirements of the complex.

#It comprises of the multiple water chilling machines with pump sets.

Air curtains are provided to avoid air conditioning loss.

FIRE FIGHTING SYSTEM comprises of the following :

- Portable extinguishers these are color-coded cylinder with compressed liquid aid gases are used to cool a small fire and to cut the oxygen supply.

- Also automatic fire alarms like laser beam, light scattering device to detect the fire are to be installed most of the installation will include an indicator board to locate the source of alarm and are installed in lobbies, corridors and landings.

- Hose reels:** A first aid for fire fighting are located in recess along corridors and provided up to 45m of reinforced rubber hose, so that all parts of a floor area not exceeding 800 sq.m are covered by one installation, a minimum of 24 l/ min is recommended at the most distant from the source of water, when the two most remote reels are operating simultaneously.

ELECTRICAL:

Here in this shopping mall greater care have been taken in terms of supply of electricity. Electricity is reqd. in large scale for air-conditioning, lifts, escalators and other lighting purposes flow of electricity in a shopping mall is shown below in a flow diagram:

- There are three transformers of 11 KVA provided back side of mall.
- Generators given in the basement These transformers have H.T line.
- 11 KV step down to 2050 VOLT
- This line came in to basement electrical room LT room where it step down again in 440 volt and with the help of feeders 220 volt electricity supply all the floors.
- Instead of DG sets ,CNG generators are use for backup
- There are five DG of 7100 KVA load.

- The Dubai mall is the world's largest shopping mall based on total area and fifth largest by gross leasable area.

TYPE OF PROJECT: Retail | Hospitality

OWNER : EMAAR PROPERTIES

DEVELOPER : EMAAR PROPERTIES

ARCHITECT: DP ARCHITECT PVT. LTD.

LOCATION : DOWNTOWN UAE

AREA : 502000SQ MT

FLOORS : 4

FACILITIES : PARKING : 14000+



DESIGN

Structured at the scale of a city, the mall is designed with internal pedestrian streets, nodes and landmarks. Way finding and urban identifiers are integrated into the design and organised by wide, straight boulevards terminating at well-defined atria and connecting the many realms of shopping.

SURROUNDING



MALL FEATURE

250 luxury hotel
22 cinema screen
120 restaurants and cafes
The Dubai aquarium
The under water zoo
Ice skating rink
Indoor theme park
Amusement park



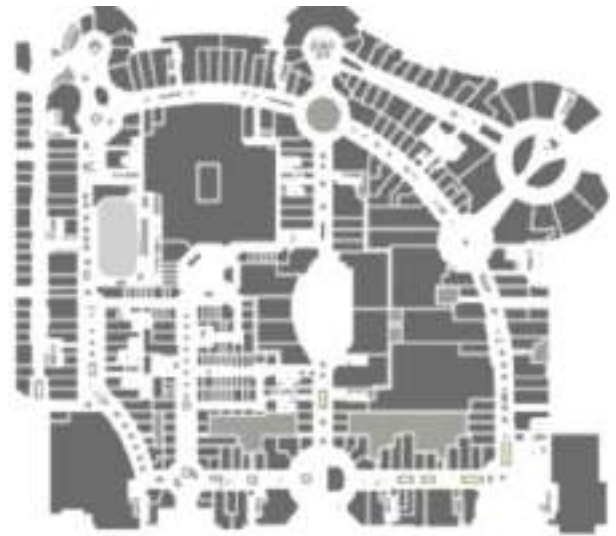
Mall has a great entrance & total are 10 nos. - 4 main entry is from east side, 3 from cinema parking side & 3 from fashion parking side

FLOOR PLANS



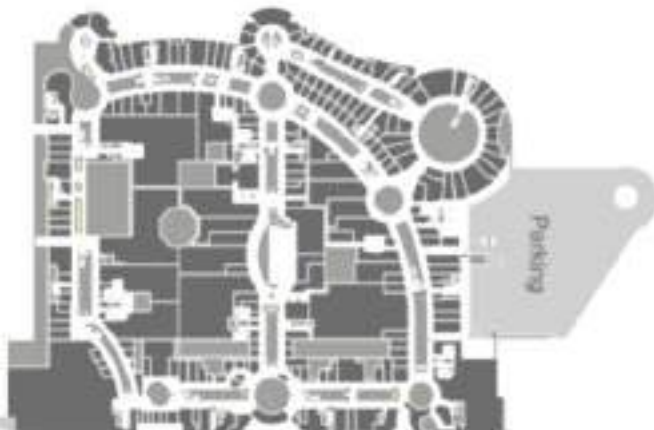
Food court, management office, waterfront atrium, hypermarket & departmental store exit on lower ground floor.

Gf, lg is directly connected through escalator



Ice rink, aquarium, underwater zoo, waterfall, fashion & apparel wear exstom ground floor.

Parking way lead from same floor through ramp



Hypermarket , anchor store, departmental store, water front atrium & other shop are exist in floor .

Parking is categorised as grand fashion & cinema parking



Ice rink aquarium underwater zoo, water fall, electronics departmental store, fashion & apparel exist on second floor.

Parking is same & connected

COMPARISION CHART

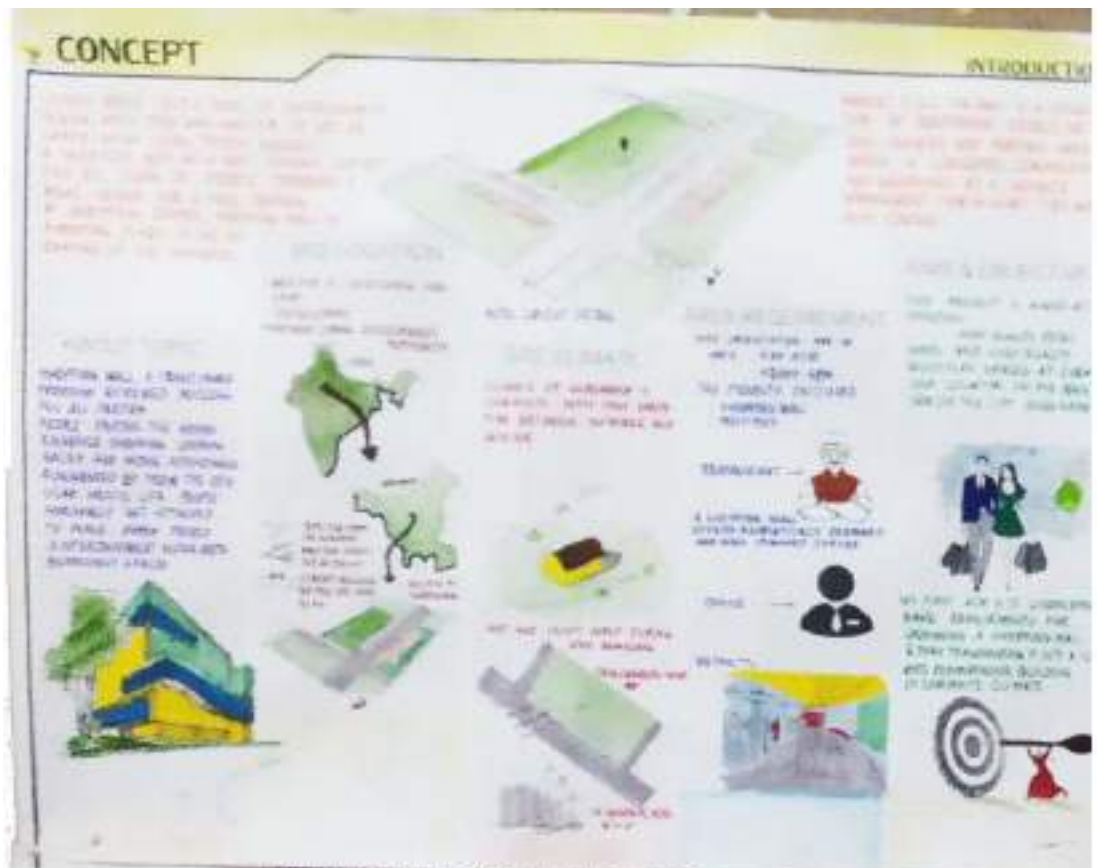
1

| | DLF MALL OF INDIA ,NOIDA | VEGAS MALL ,DELHI | DLF PROMONADE ,DELHI | THE DUBAI MALL ,UAE |
|-----------------|---|---|---|-------------------------|
| BUILDING TYPE | SHOPPING MALL CUM MULTIPLEX | SHOPPING MALL (RETAIL) | SHOPPING MALL (RETAIL) | SHOPPING MALL |
| CONCEPT & STYLE | ZONES /CONTEMPARORY | CONTEMPARORY | CORIDOOR BASED PLANNING | CORIDOOR BASED PLANNING |
| LOCATION | SECTOR-18, NOIDA (UP) | SECTOR-14,DELHI | SECTOR-14,DELHI | UAE |
| SITE AREA | 53825 SQM. | 11500 SQM. | 11500 SQM. | 50,2000 SQM. |
| NO. OF BLOCKS | 1 | 1 | 1 | 1 |
| HEIGHT | 24 MTR. | 24 MTR. | 15 MTR. | |
| NO. OF FLOORS | G+5 | G+5 | G+2 | G+2 |
| BASEMENT | 4 LEVEL | 4 LEVEL | 4 LEVEL | 1 |
| PARKING | 1700 CARS & 550 BIKES | 1350 CARS & 1037 BIKES | 900 CARS & 250 BIKES | 14000+ CARS |
| NO. OF LIFTS | 24 LIFTS | 8LIFTS | 12 LIFTS | |
| | | | | |
| MATERIAL | EXTERNAL - STEEL JALI AND ACP SHEETS AND GLASS INTERNAL - ITALIAN FLOORING, TILES,WOOD EN FLOORING | EXTERNAL - GRC JALI AND DRY CLADDING AND GLASS INTERNAL - ITALIAN FLOORING, POP CEILING,WOODEN CEILING | EXTERNAL - STONE AND TEXTURE PAINT AND GLASS INTERNAL - ITALIAN FLOORING, POP CEILING,WOODEN CEILING, CARPET | |

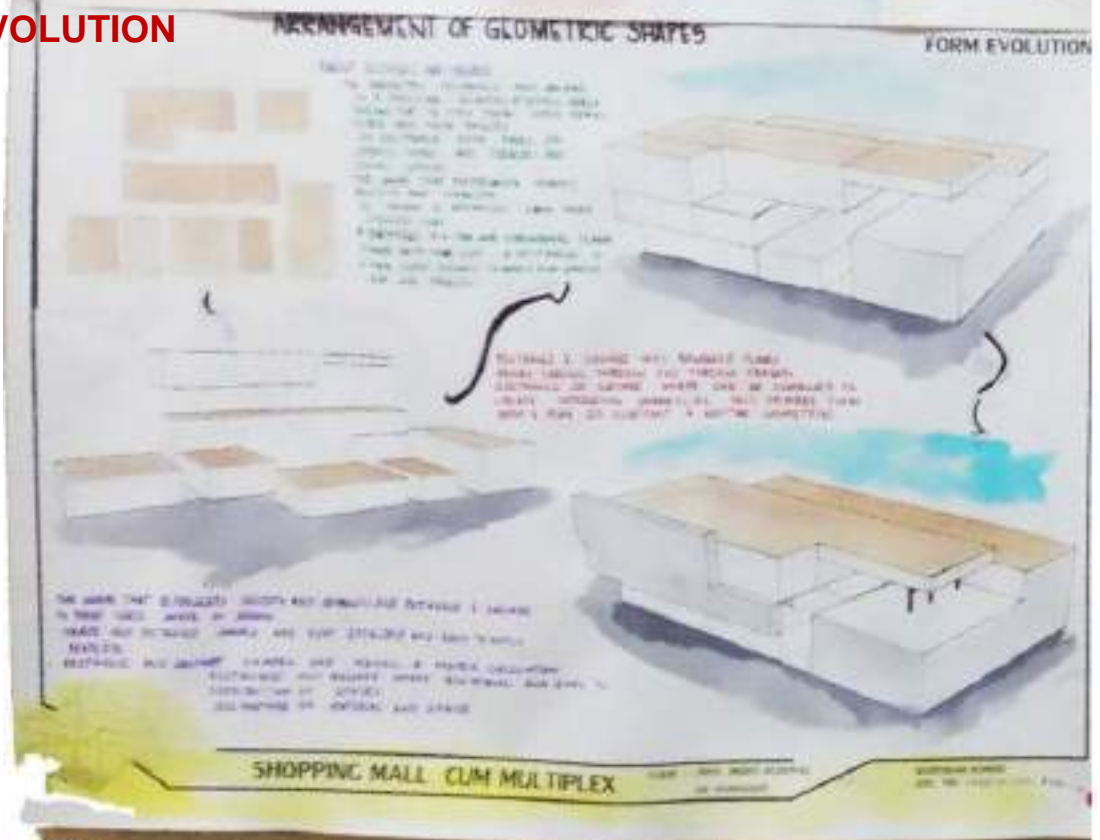
| INFERENCES | POSITIVE - INTELLIGENT BUILDING SYSTEM IS USED. DRIVEWAY PORCH IS PROVIDED. -WELL PLANNED STORES. - LUXURIOUS SPEACE PROVIDED. NEGATIVE NO ATTENDENT AT INFORMATION DESK. LACK OF GREENERY. | POSITIVE -INTELLEGEN BUILDING SYSTEM IS USED. DRIVEWAY PORCH IS PROVIDED. -WELL PLANNED STORES. - LUXURIOUS SPEACE PROVIDED. - SPACIOUS ATRIUM. -SOURCES OF NATURAL LIGHT NEGATIVE NO FLOOR PLANS TO INDICATE. | POSITIVE INTELLIGENT BUILDING SYSTEM IS USED. DRIVEWAY PORCH IS PROVIDED. ENTRANCE FULLY ENHANCE WITH THE LIGHTING. OPEN DINING SPACES PROVIDED ON 2ND FLOOR. LUXURIOUS SPEACE PROVIDED. HIGH QULTITY MATERIAL USED. | POSITIVE PROPER CIRCULATION PROPER SIGNAGE PROPER LANDSCAPING. GARND ENTRY. NEGATIVE LACK OF PARKING ON WEEKEND |
|------------|--|--|---|---|

| | COMMERCIAL | RETAIL |
|----------------------------|-----------------------|-----------------------|
| ENTRY | N/A | N/A |
| EXIT | N/A | N/A |
| FIRE LIFT | 1 PER 30 mt. | 1 PER 30 mt. |
| SERVICE LIFT | 1 PER 30 mt. | 1 PER 30 mt. |
| PASSENGER LIFT | 1 PER 30 mt. | 1 PER 30 mt. |
| FIRE STAIRCASE | 1 PER 30 mt. | 1 PER 30 mt. |
| MAXIMUM RISER | 150 mm | 150 mm |
| MAXIMUM TREAD | 300 mm | 300 mm |
| MAXIMUM WIDTH | 1 UNIT/ 25 PERS. | 1 UNIT/ 25 PERS. |
| BASEMENT | ACCORDING TO BUA | ACCORDING TO BUA |
| BASEMENT ENTRY | AS PER REQUIREMENT | AS PER REQUIREMENT |
| BASEMENT HEIGHT | FFL TO BOB 2400 mm | FFL TO BOB 2400 mm |
| BASEMENT RAMP WIDTH | 1 UNIT/60 PERS. | 1 UNIT/60 PERS. |
| HANDICAPPED RAMP | MIN. WIDTH 1200 mm | MIN. WIDTH 1200 mm |
| FIRE TENDER ROAD | MIN. 6000 mm | MIN. 6000 mm |
| TOILET | 1/25 PERS. | 1/25 PERS. |
| FIRE TANK | MIN. 2 LAC.LT. | MIN. 2 LAC.LT. |
| WATER TANK | 45 LT. PER PERSON | 45 LT. PER PERSON |
| HVAC | 25-30 TONS/100 SQ.FT. | 25-30 TONS/100 SQ.FT. |
| DG SET | 15 SQ.FT. PER WATT | 15 SQ.FT. PER WATT |
| PARKING | ACCORDING TO BUA | ACCORDING TO BUA |
| FIRE EXIT | 1 PER 30 mt. | 1 PER 30 mt. |
| FAN ROOM | N/A | N/A |
| SMOKE DETECTORS | 1/6MT. RADIUS | 1/6MT. RADIUS |
| SPRINKLERS | 1/3MT. RADIUS | 1/3MT. RADIUS |
| GARBAGE CHUTE | N/A | N/A |

INTRODUCTION



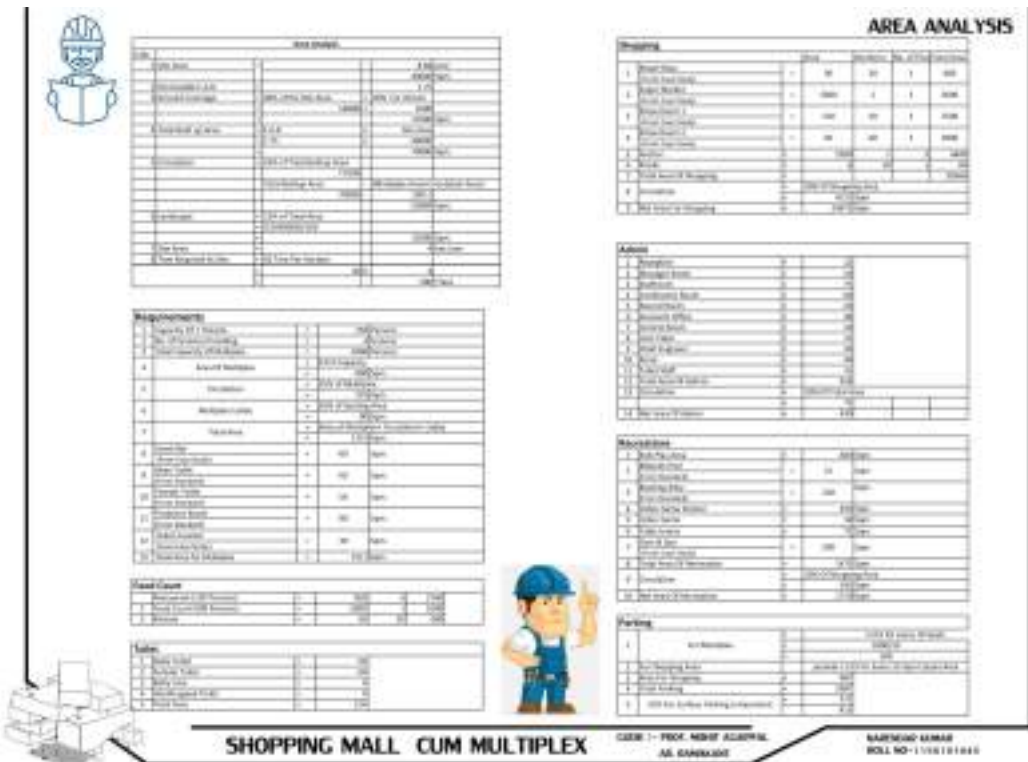
FORM EVOLUTION



LANDSCAPE FEATURE

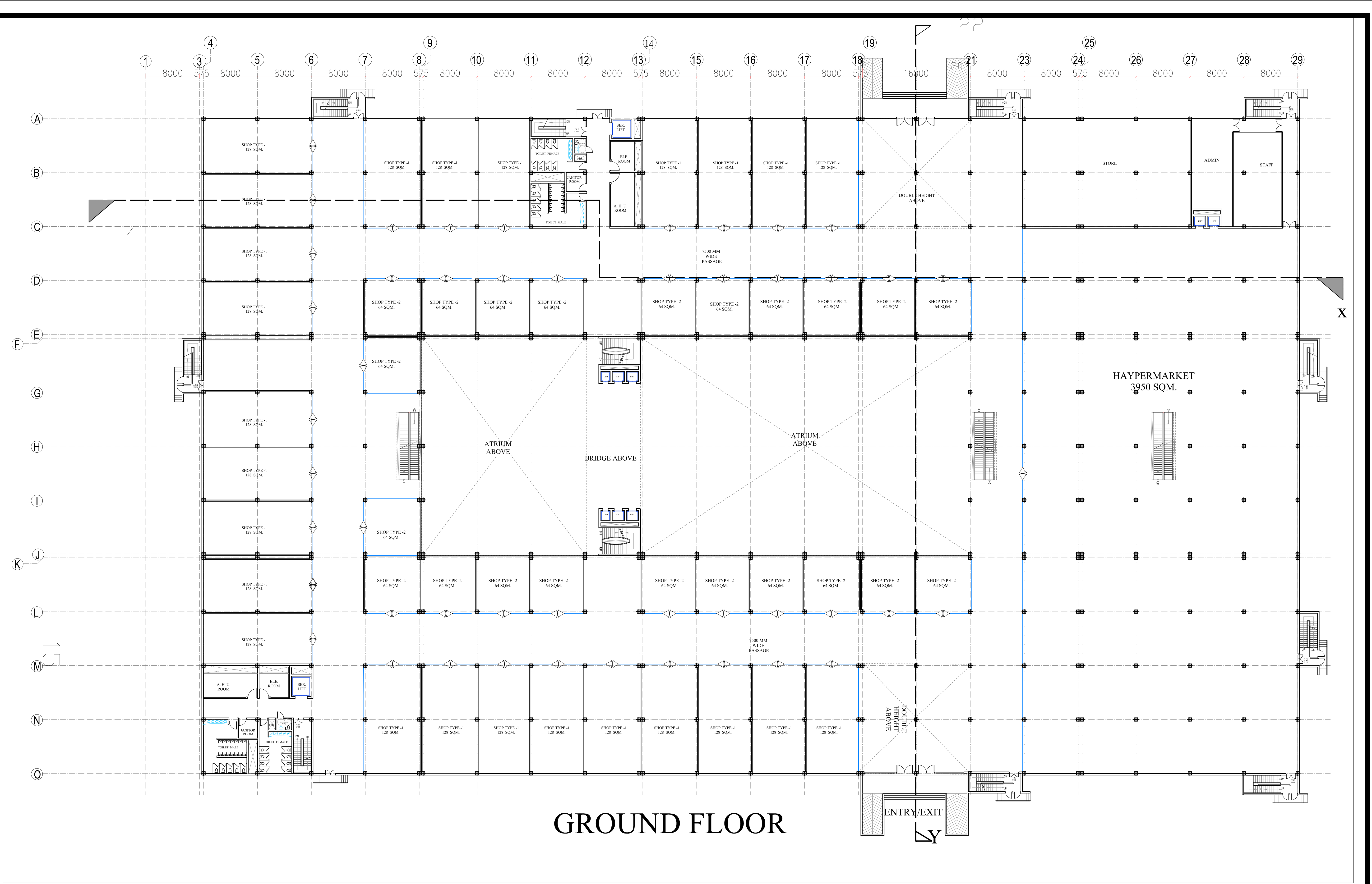


AREA ANALYSIS



MODEL VIEW





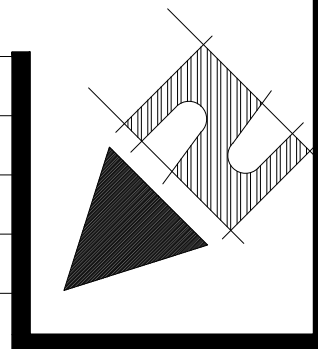
GROUND FLOOR

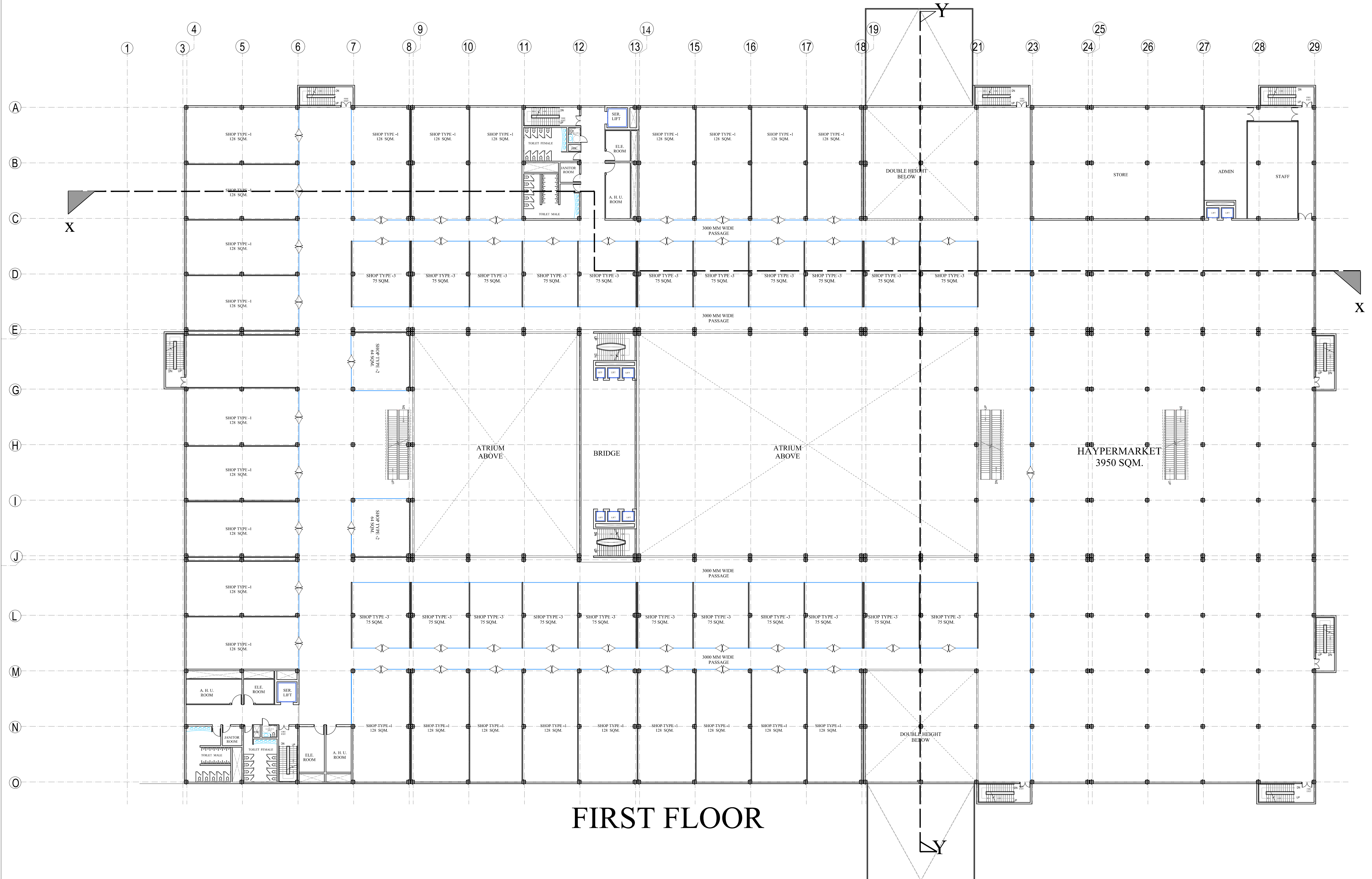
SHOPPING MALL CUM MULIPLIX

SCALE 1:250

NARENDAR KUMAR 1150101045

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PROF. MOHIT K. AGARWAL
AR. RAMAKANT





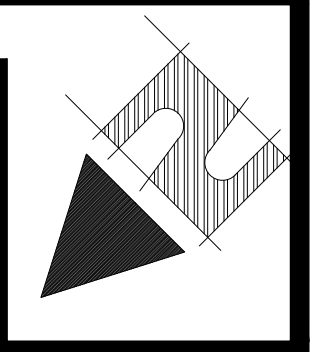
FIRST FLOOR

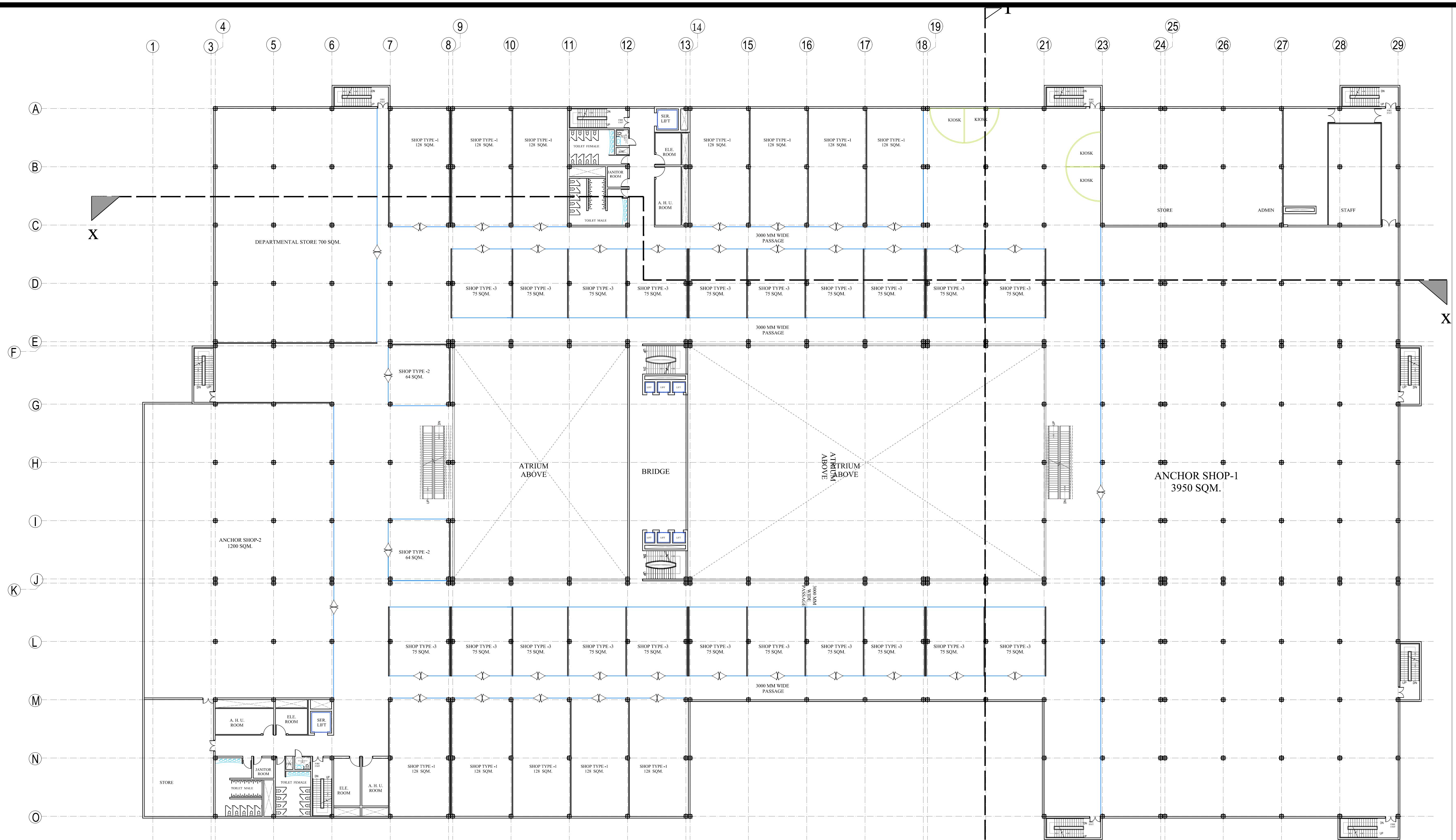
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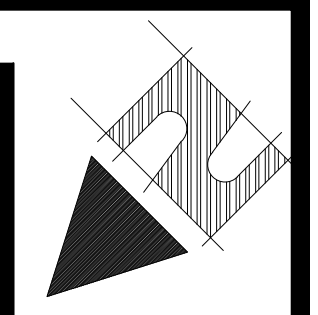
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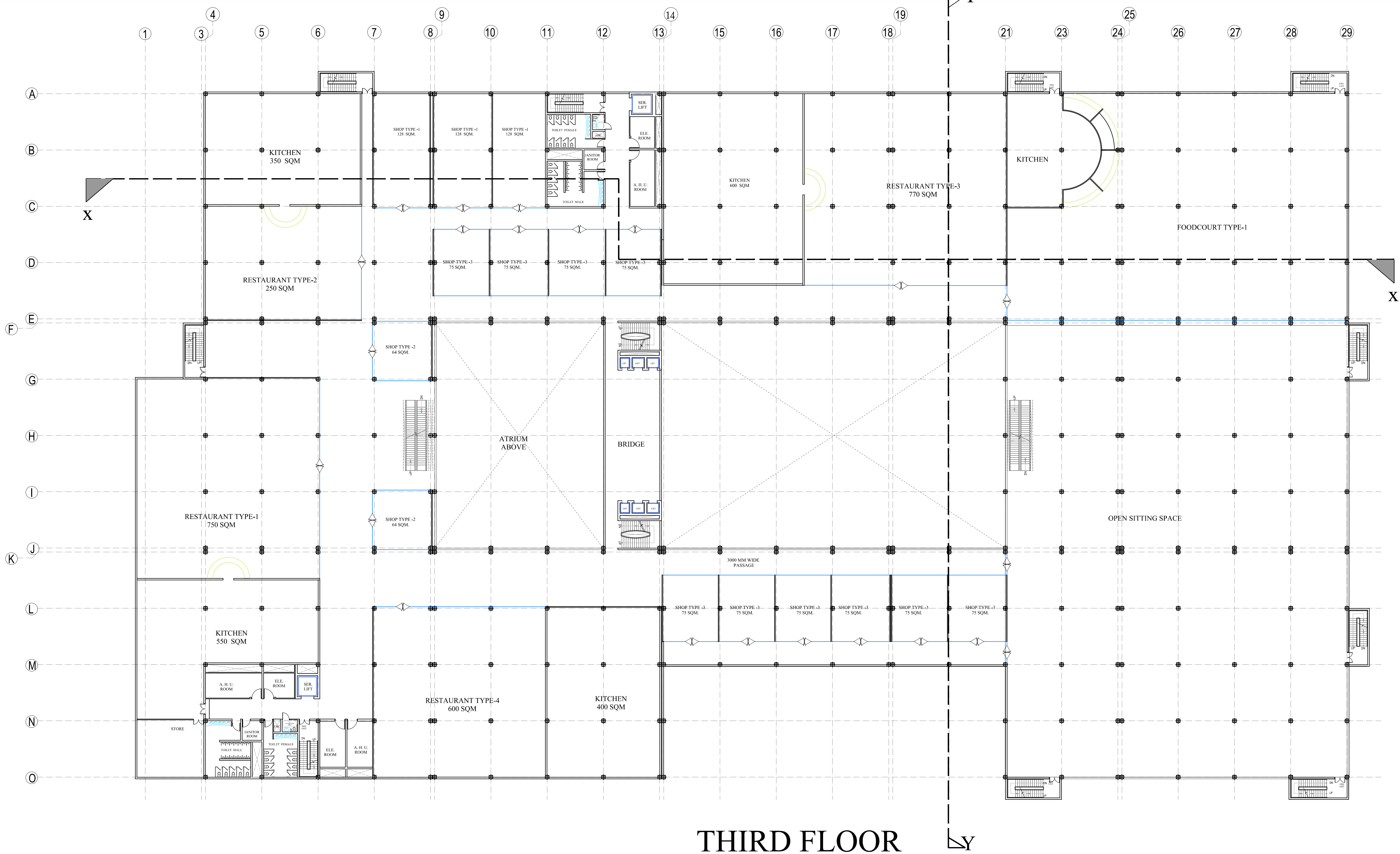
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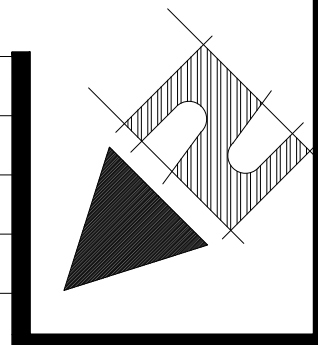
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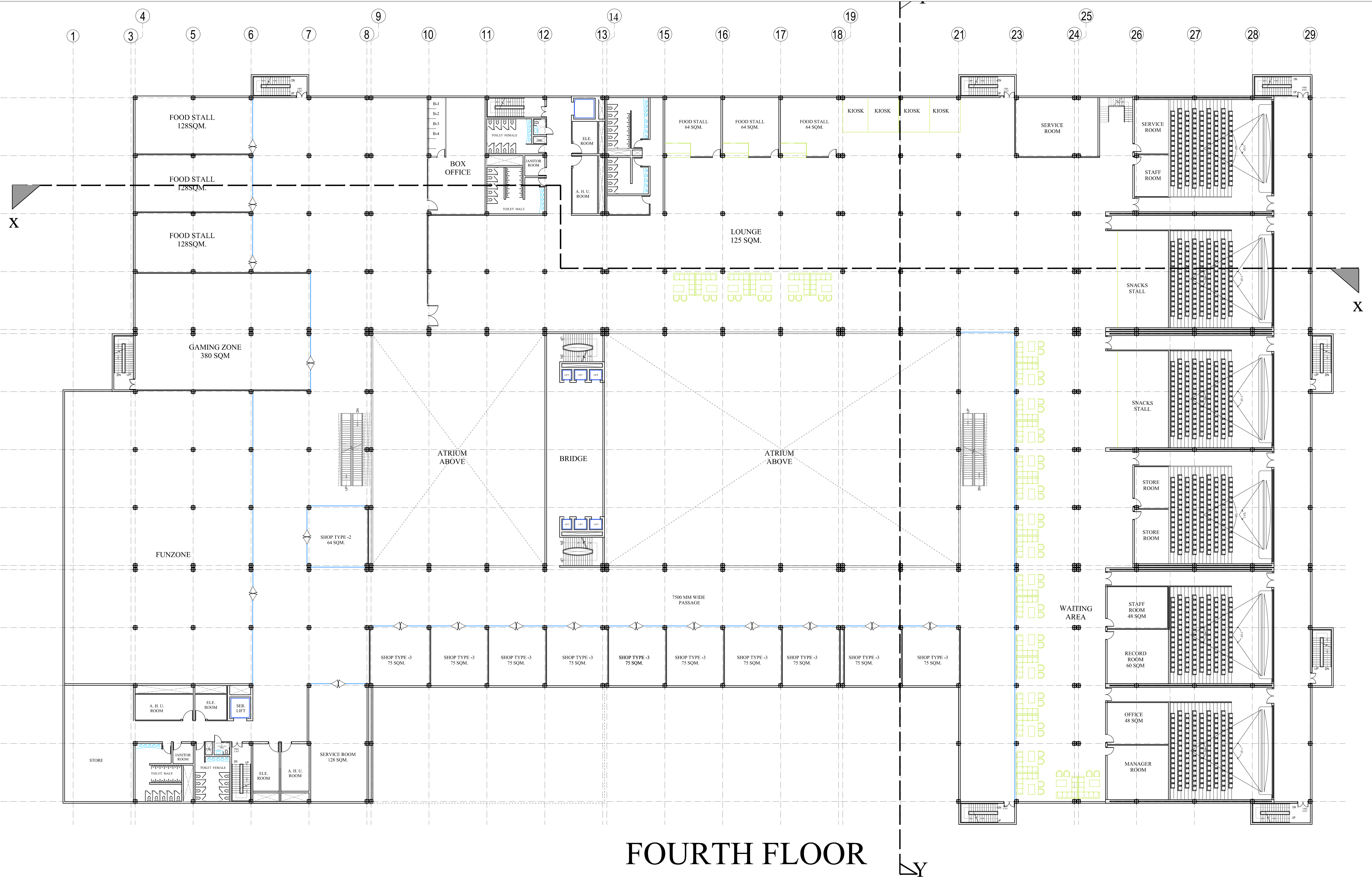
SHOPPING MALL CUM MULIPILEX

SCALE 1:250

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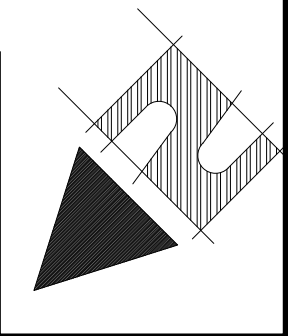
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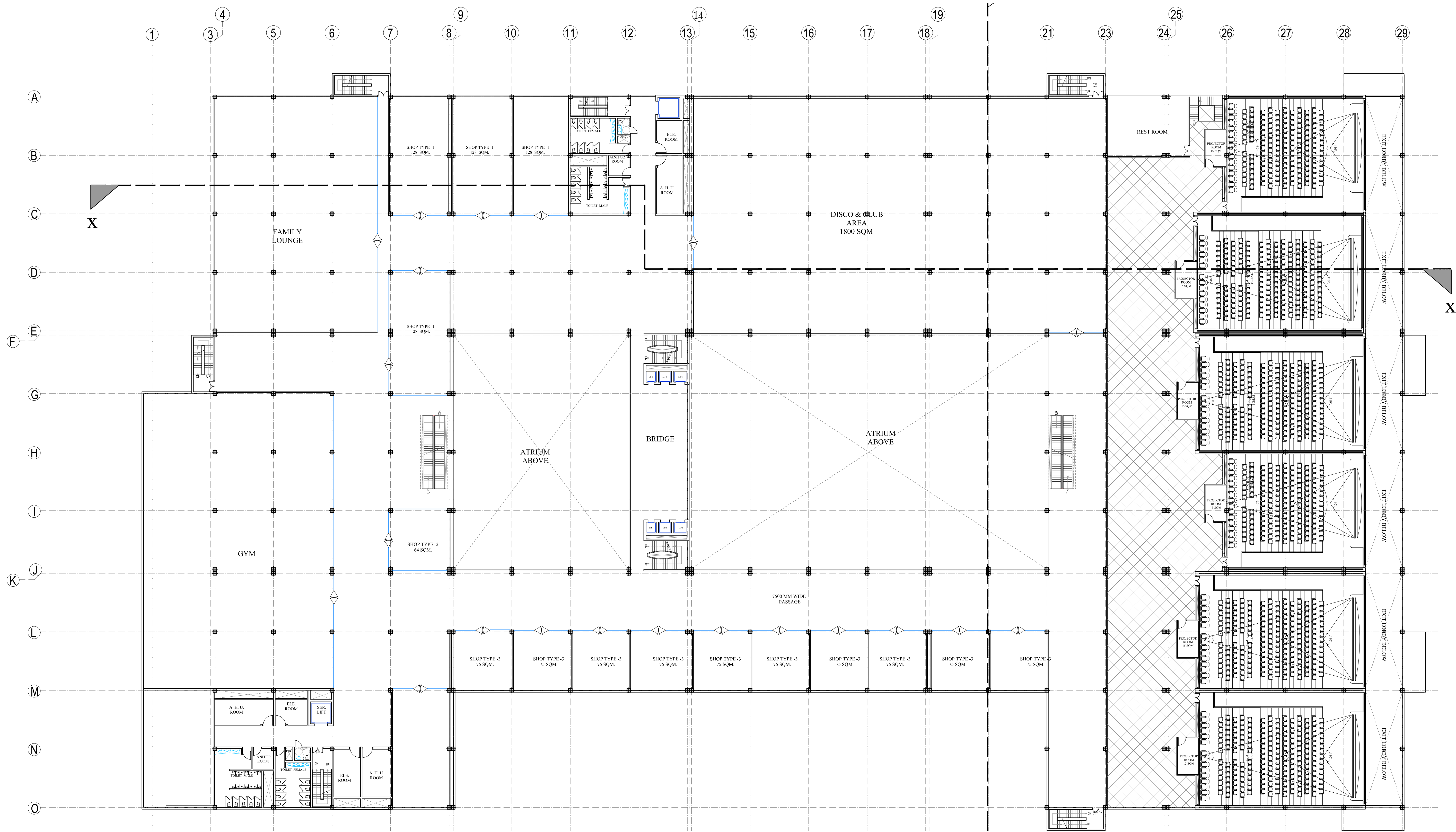
SHOPPING MALL CUM MULIPILEX

SCALE 1:250

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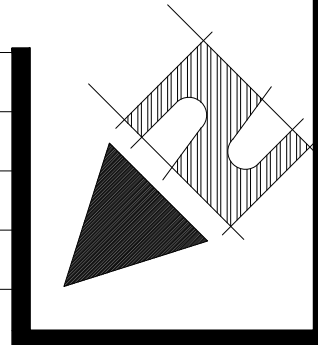
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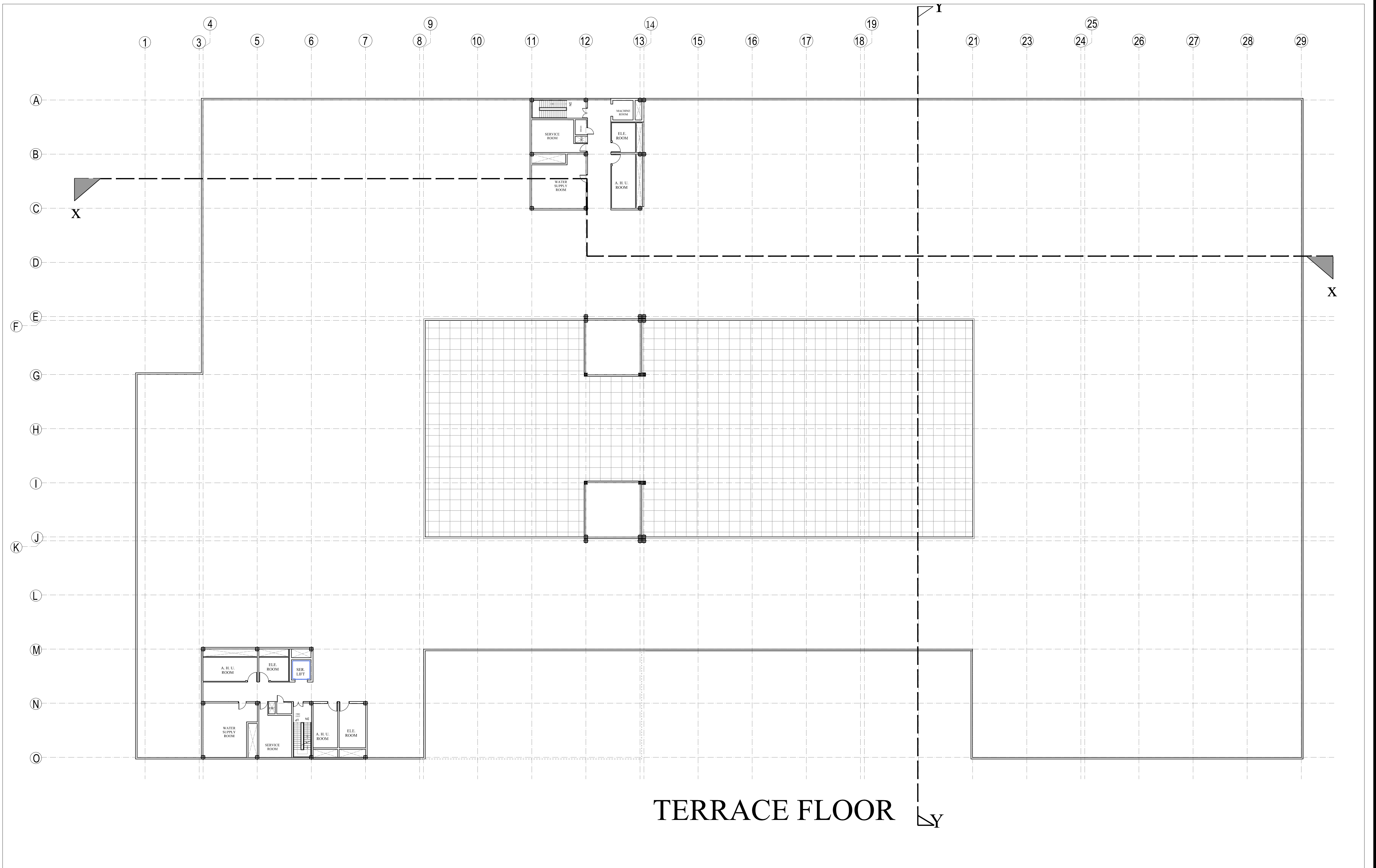
SCALE 1:250

SHOPPING MALL CUM MULTIPLEX

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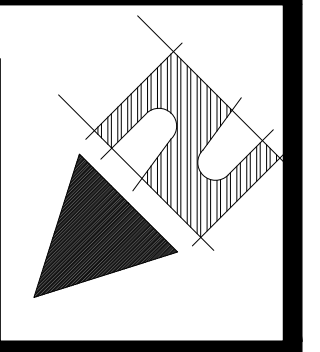


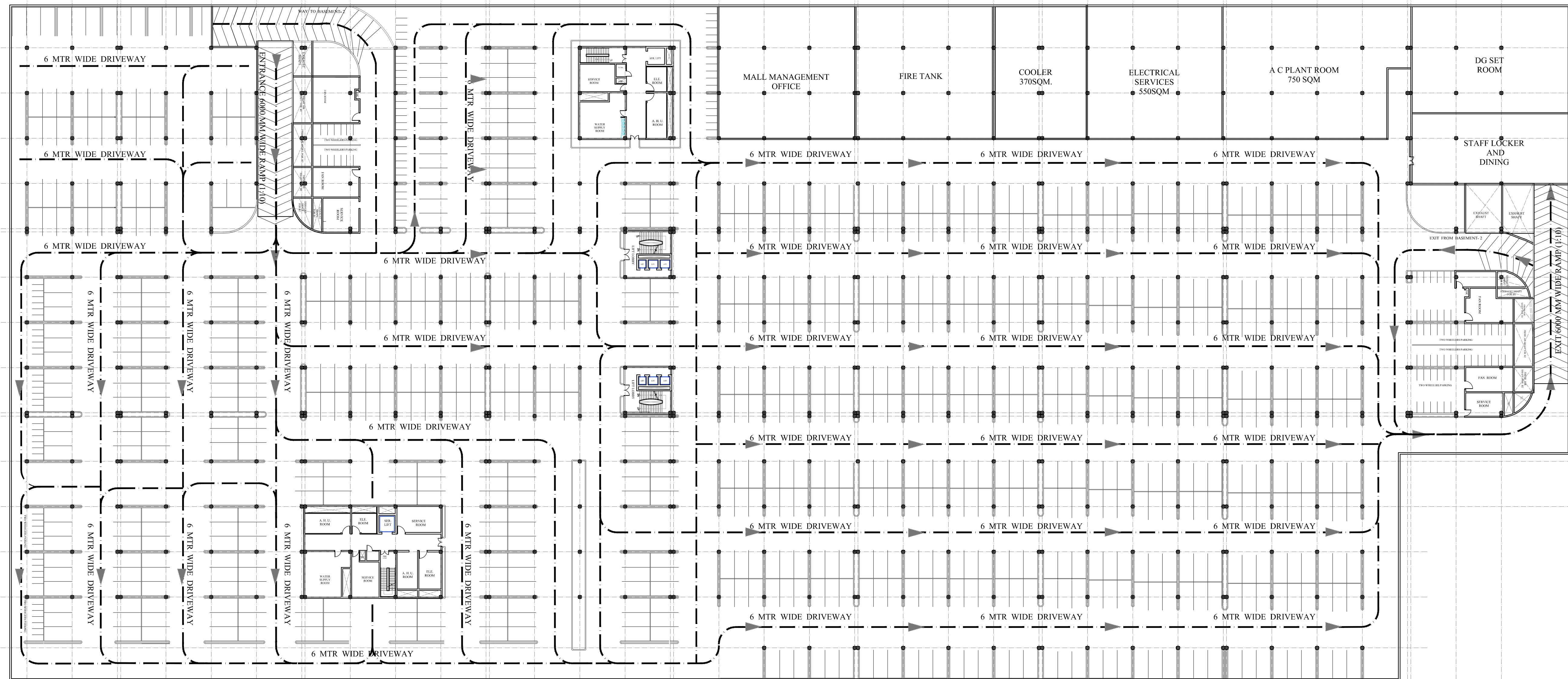
SHOPPING MALL CUM MULIPILEX

SCALE 1:250

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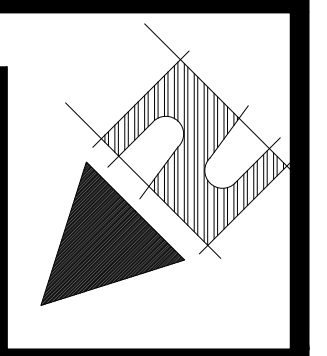
BASEMENT-1 PLAN

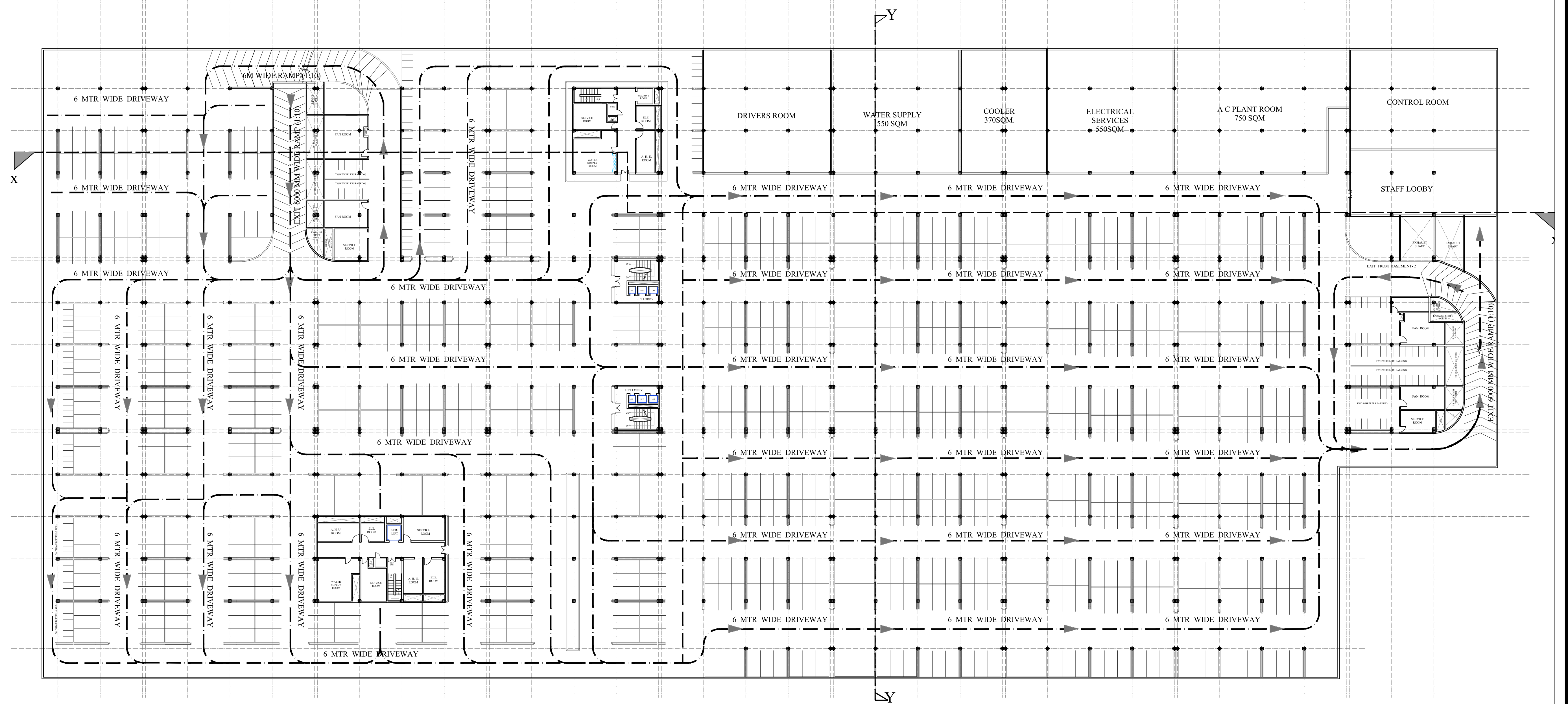
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SHOPPING MALL CUM MULIPLEX

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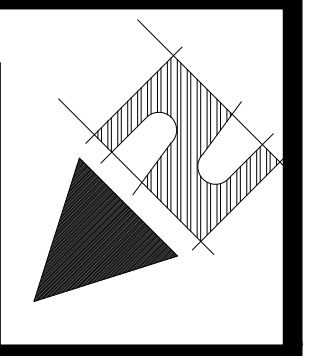
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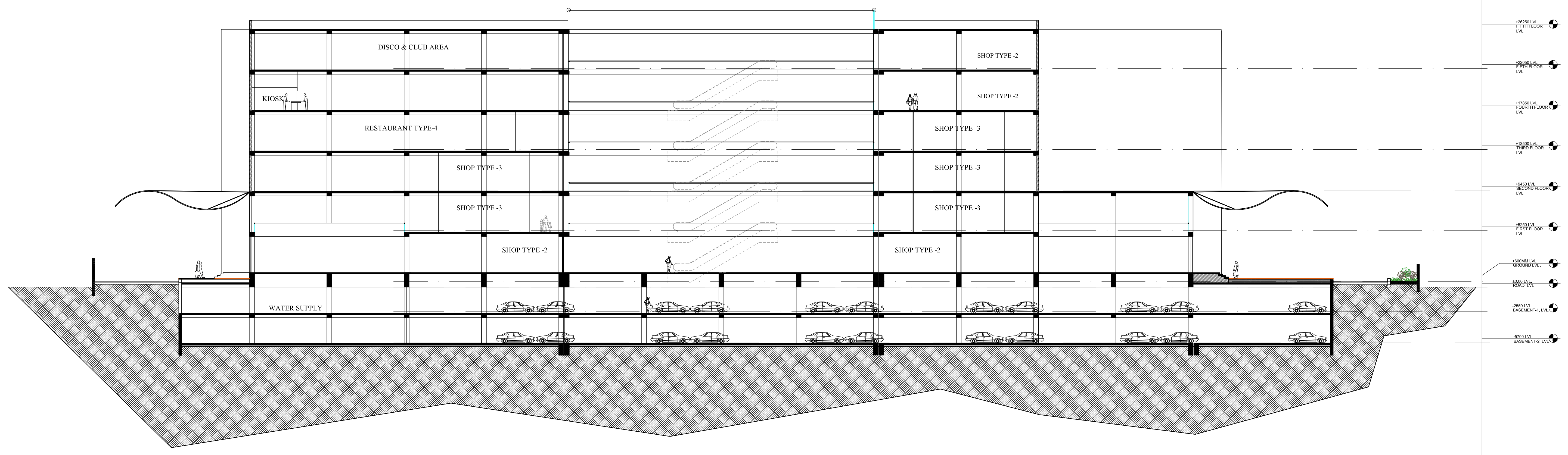
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SHOPPING MALL CUM MULIPLEX

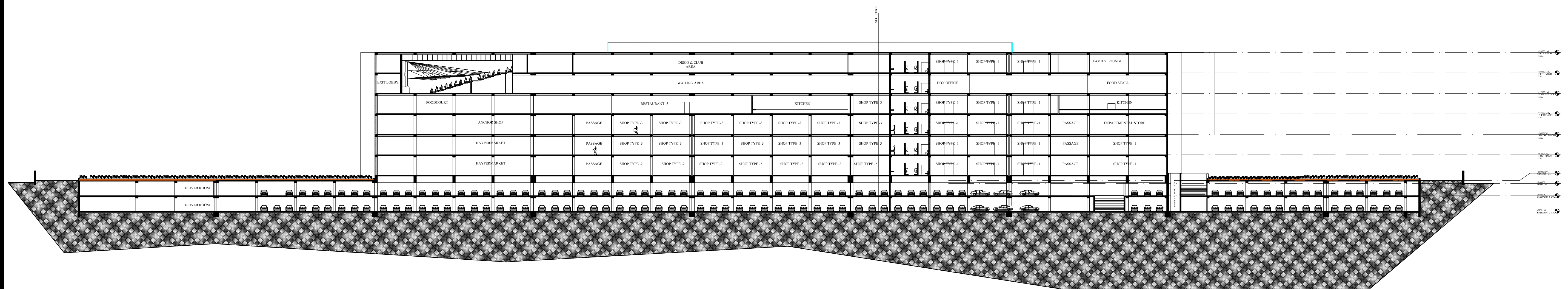
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SECTION-XX



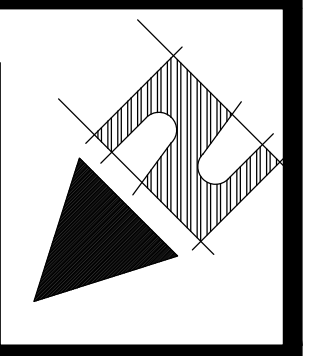
SECTION-XX

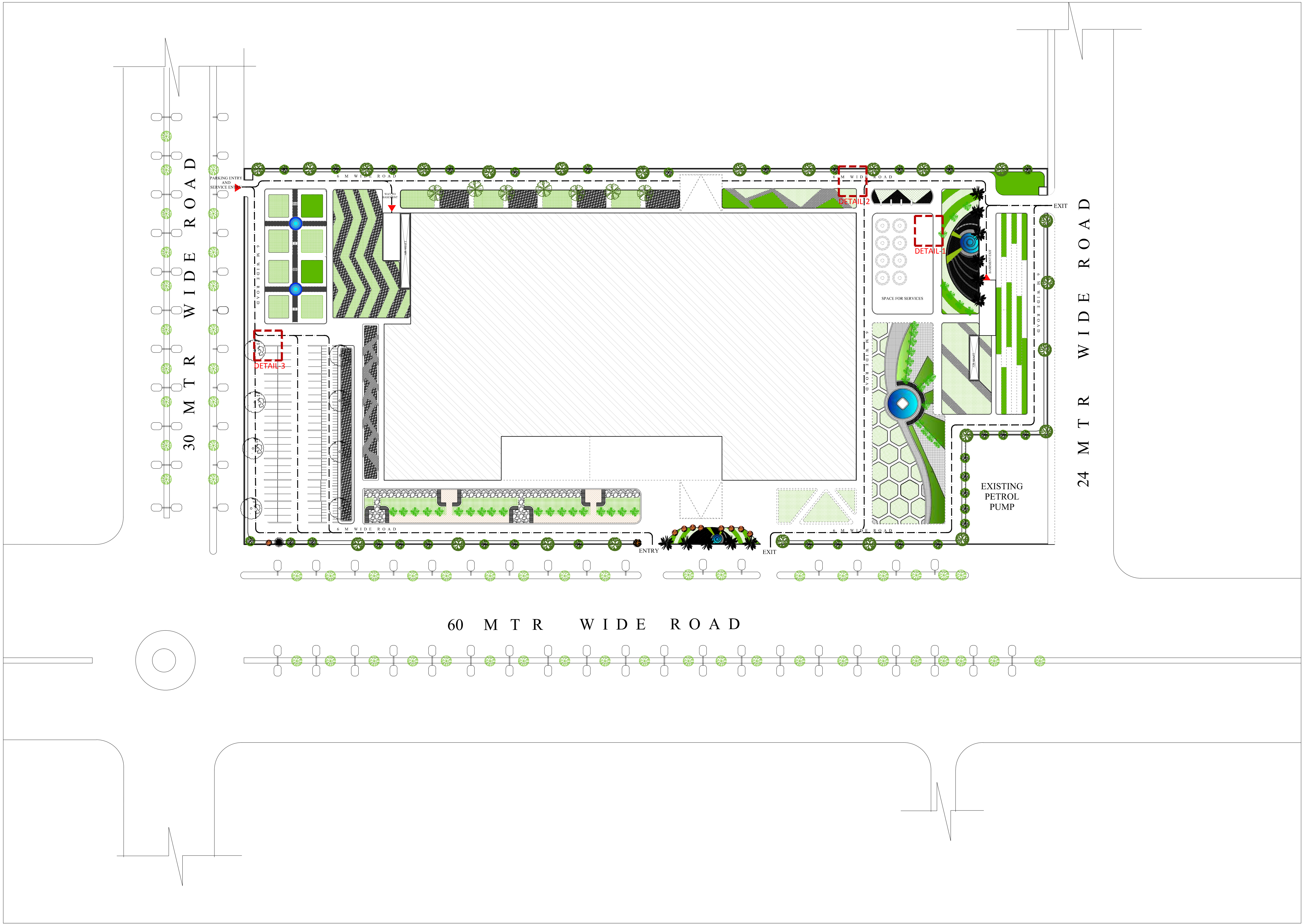
SHOPPING MALL

SCALE 1:250

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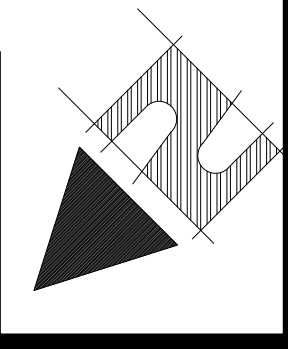


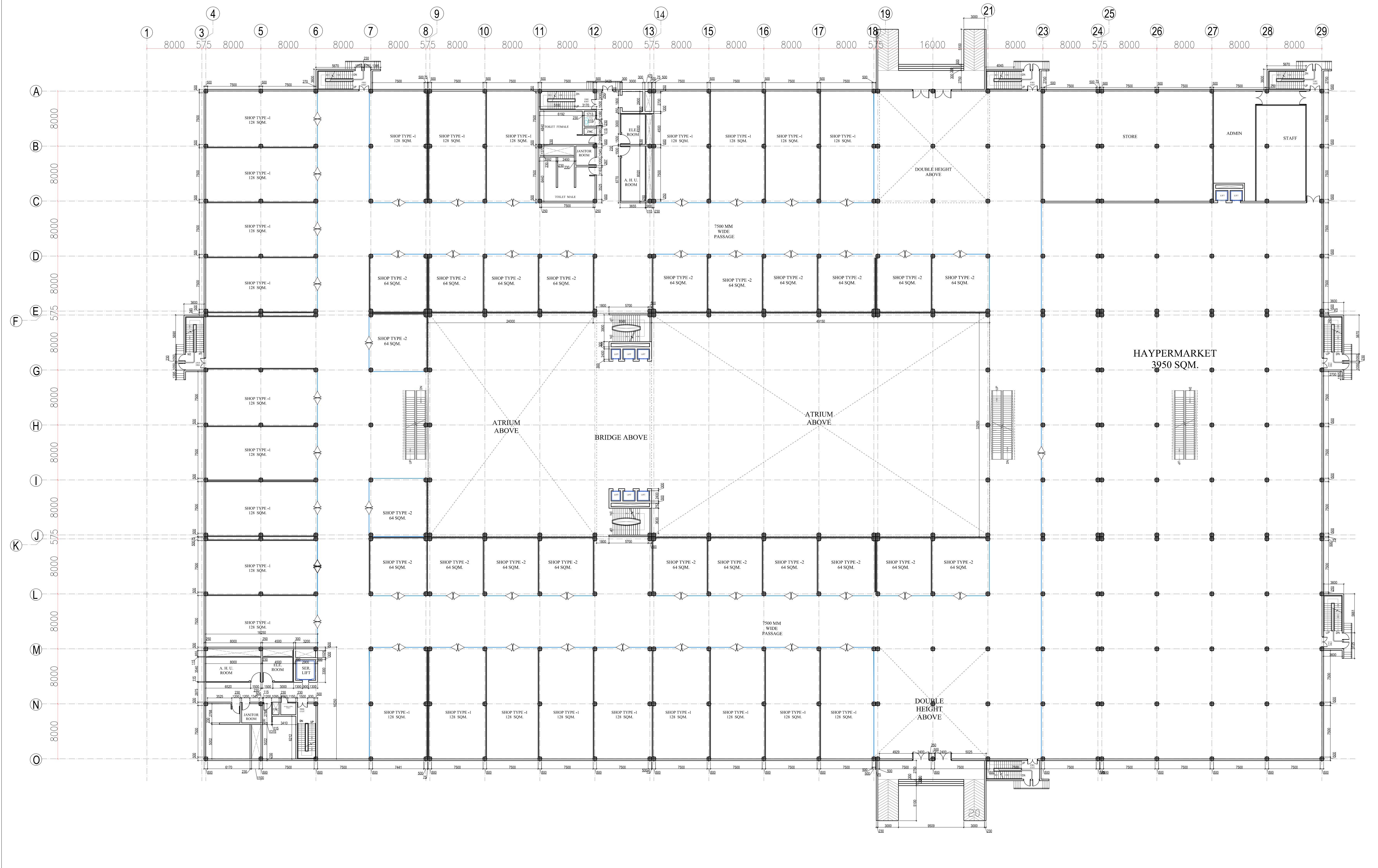
SHOPPING MALL CUM MULTIPLEX

SCALE 1:750

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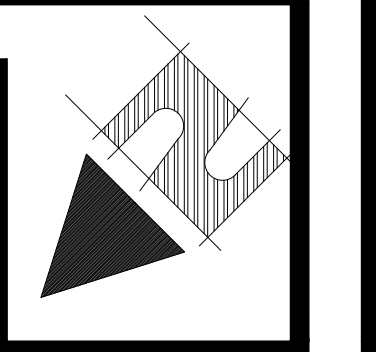


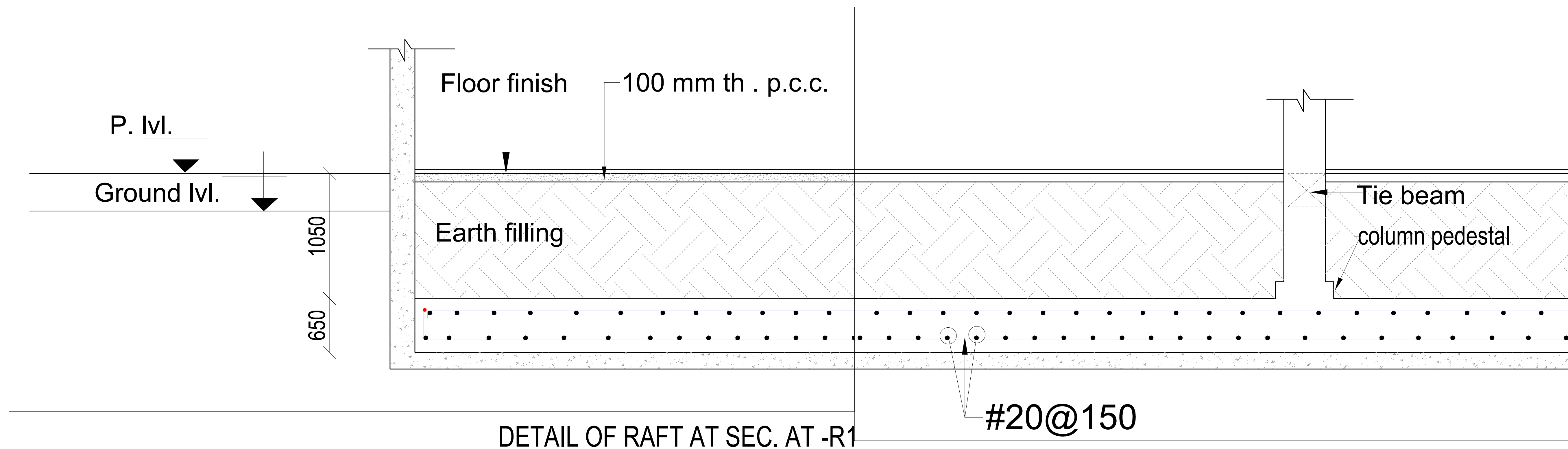
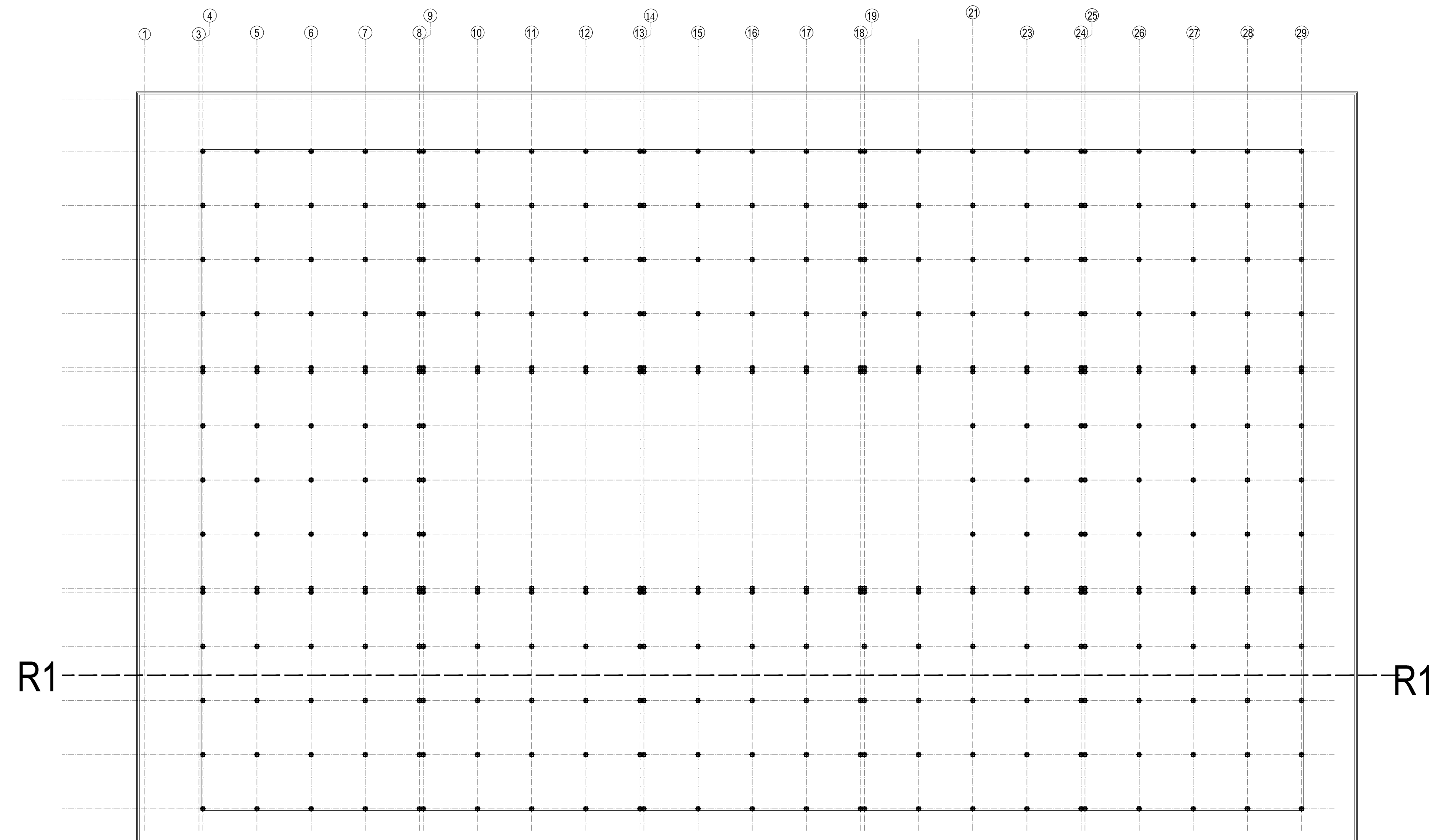
SCALE 1:250

SHOPPING MALL CUM MULIPLIX

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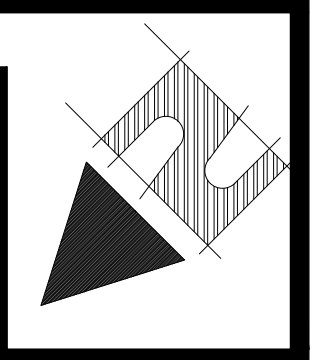


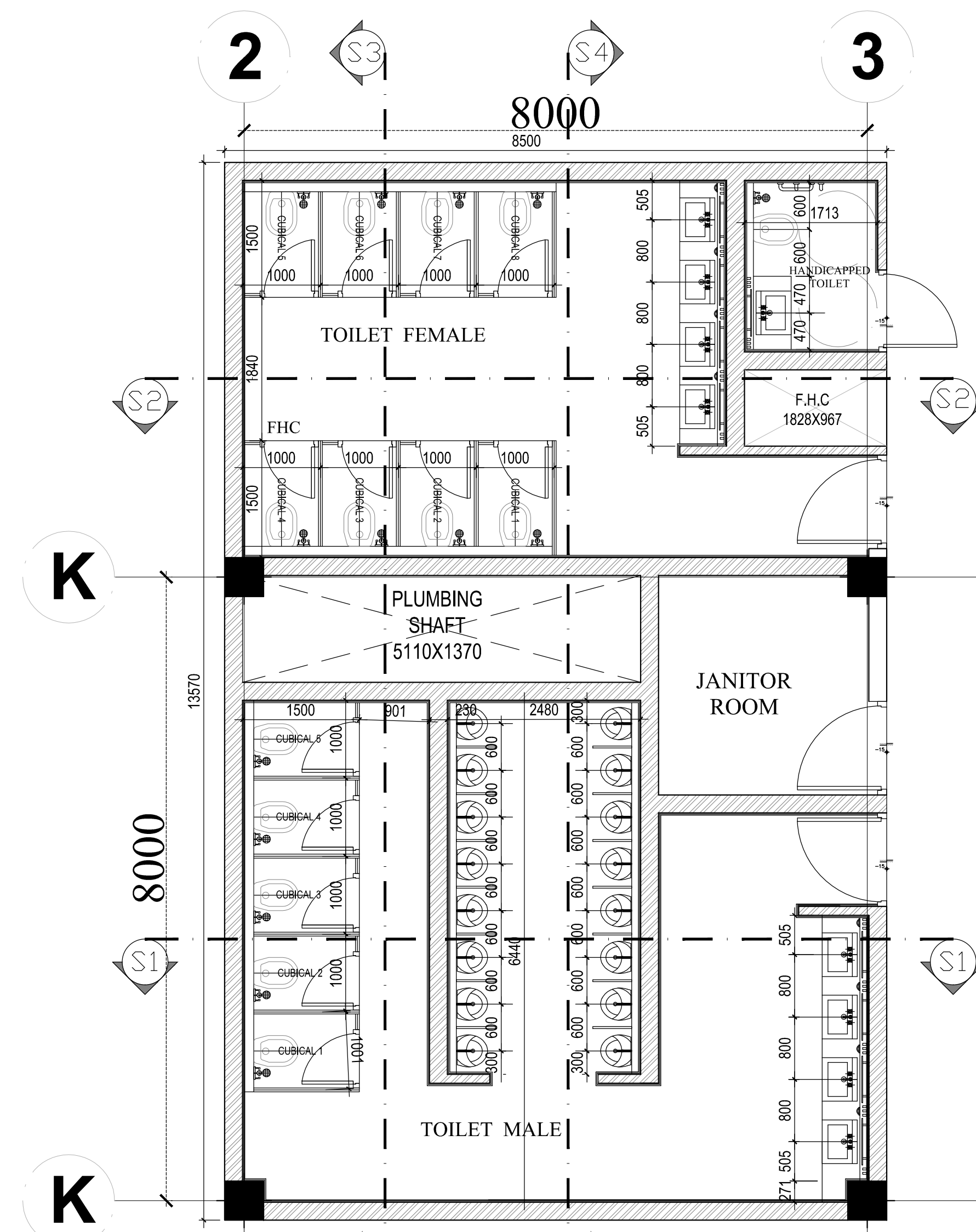


SHOPPING MALL CUM MULIPLEX

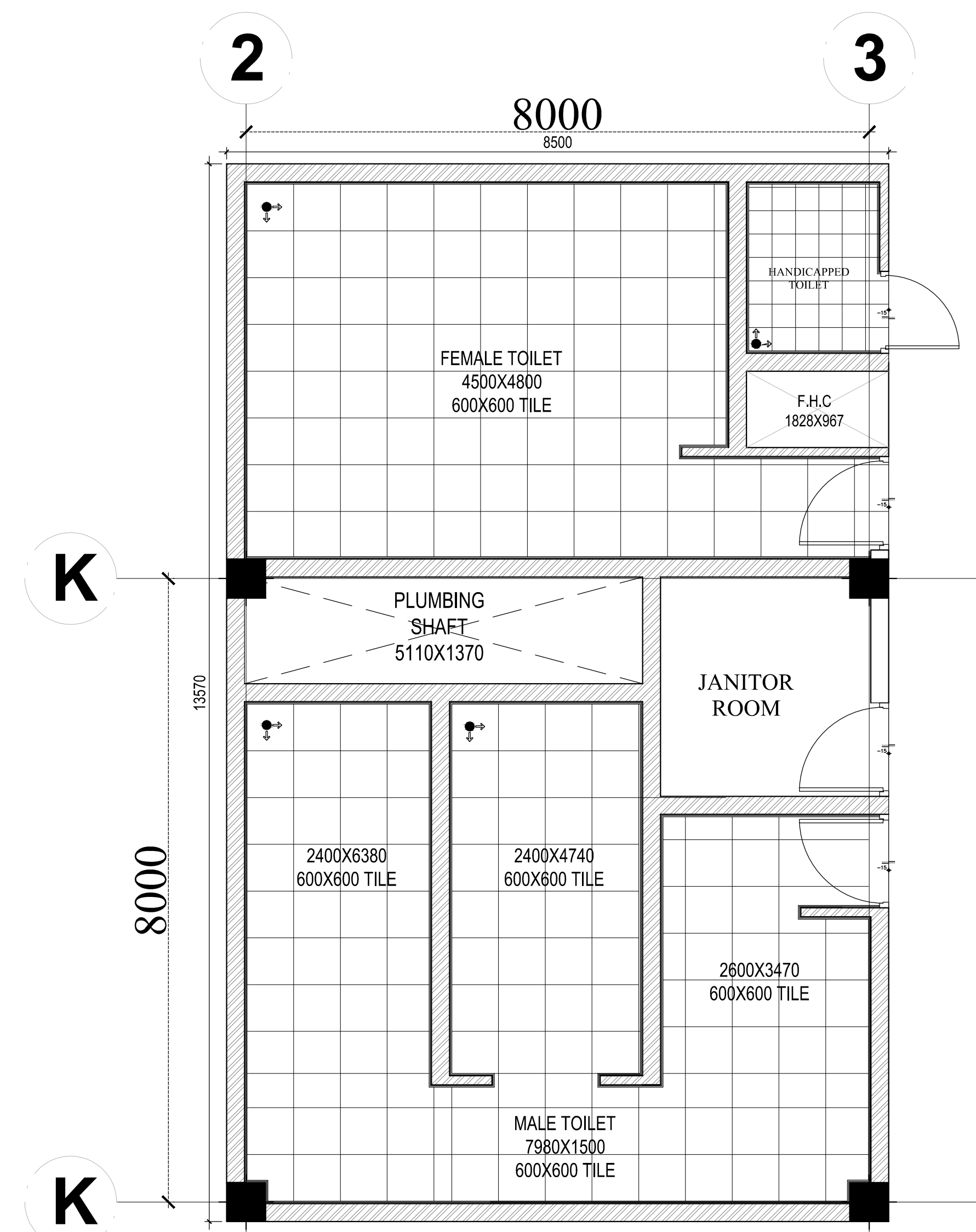
NARENDAR KUMAR 1150101045

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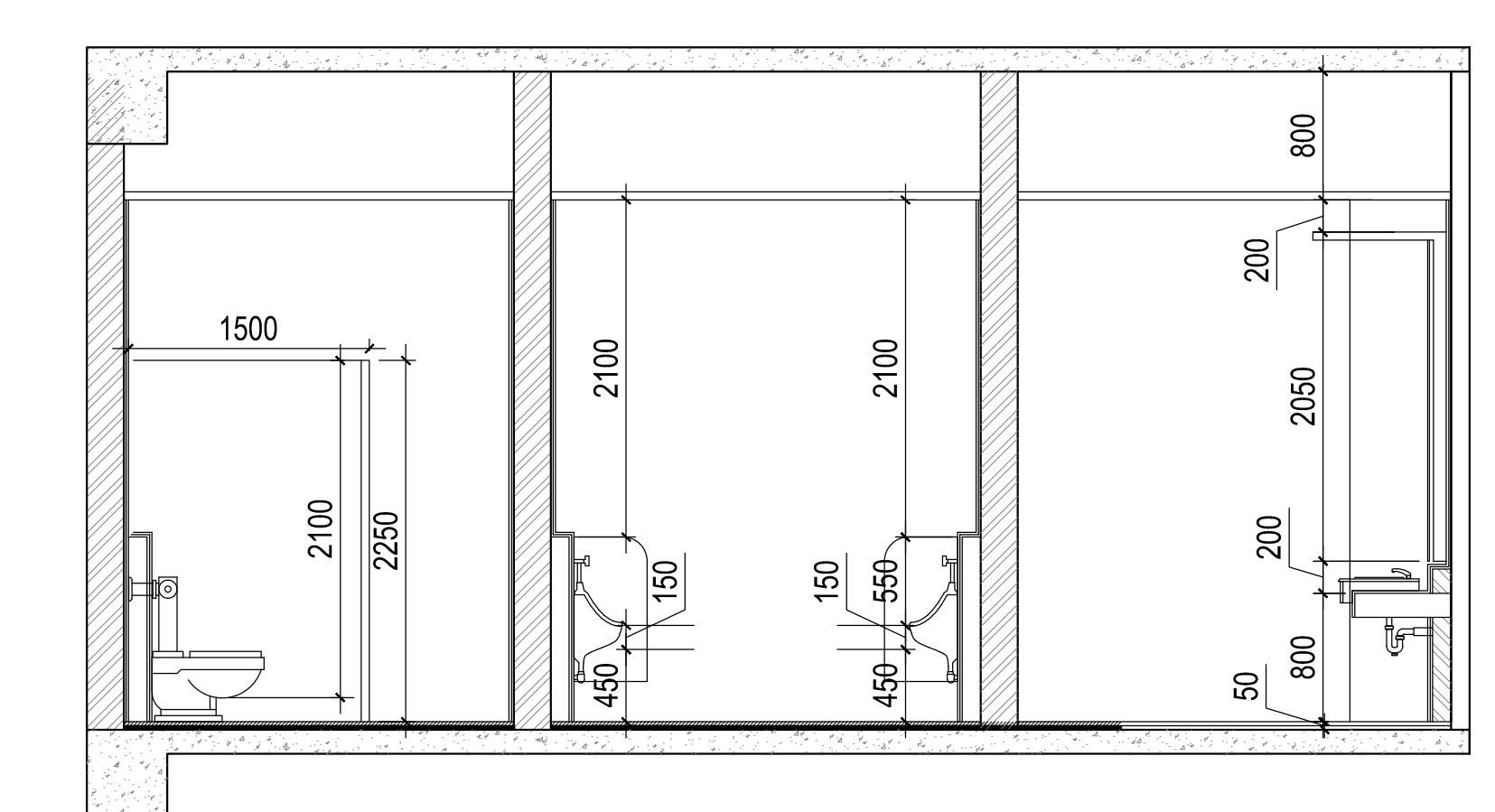




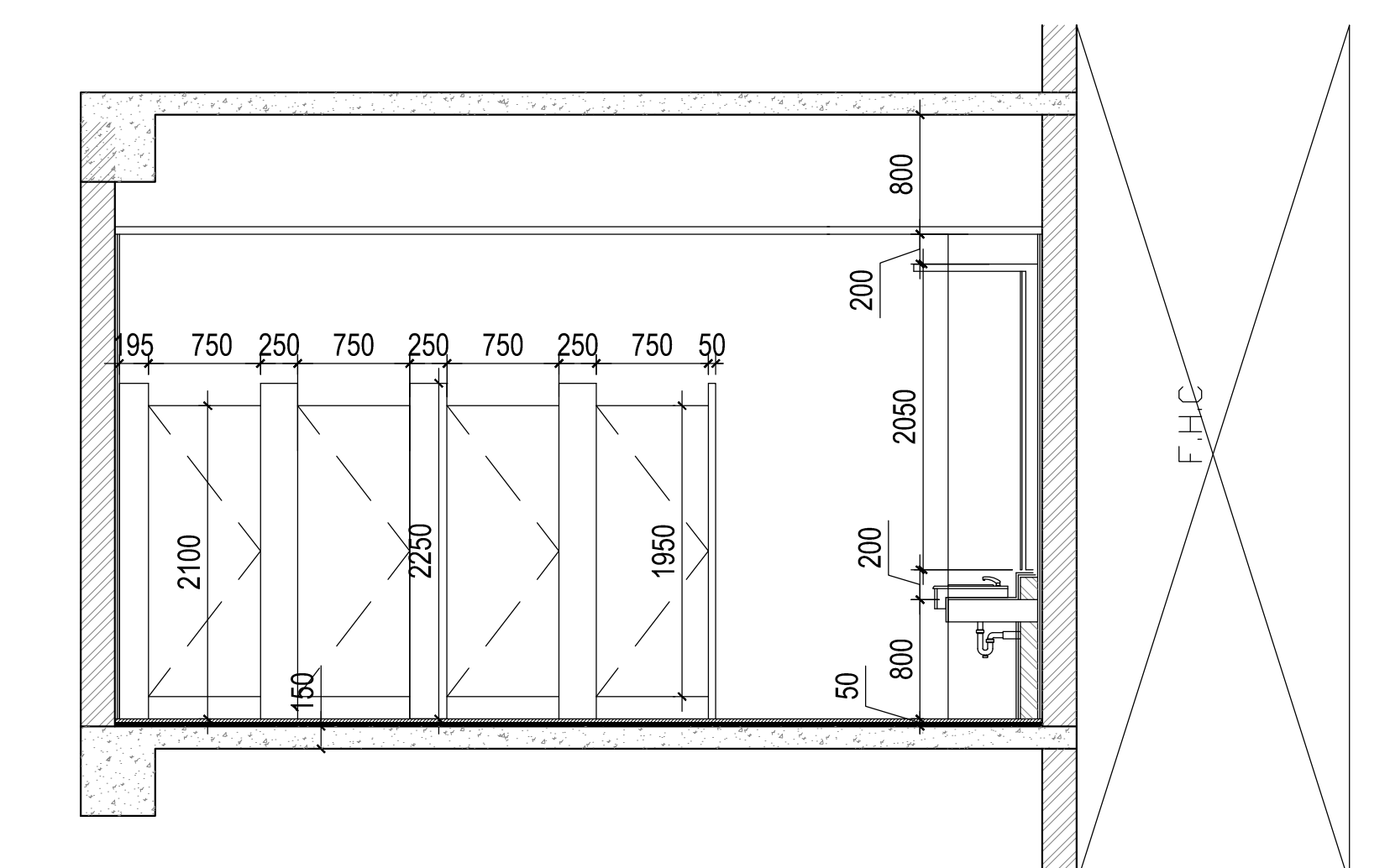
TOILET LAYOUT PLAN
8500 x 13570



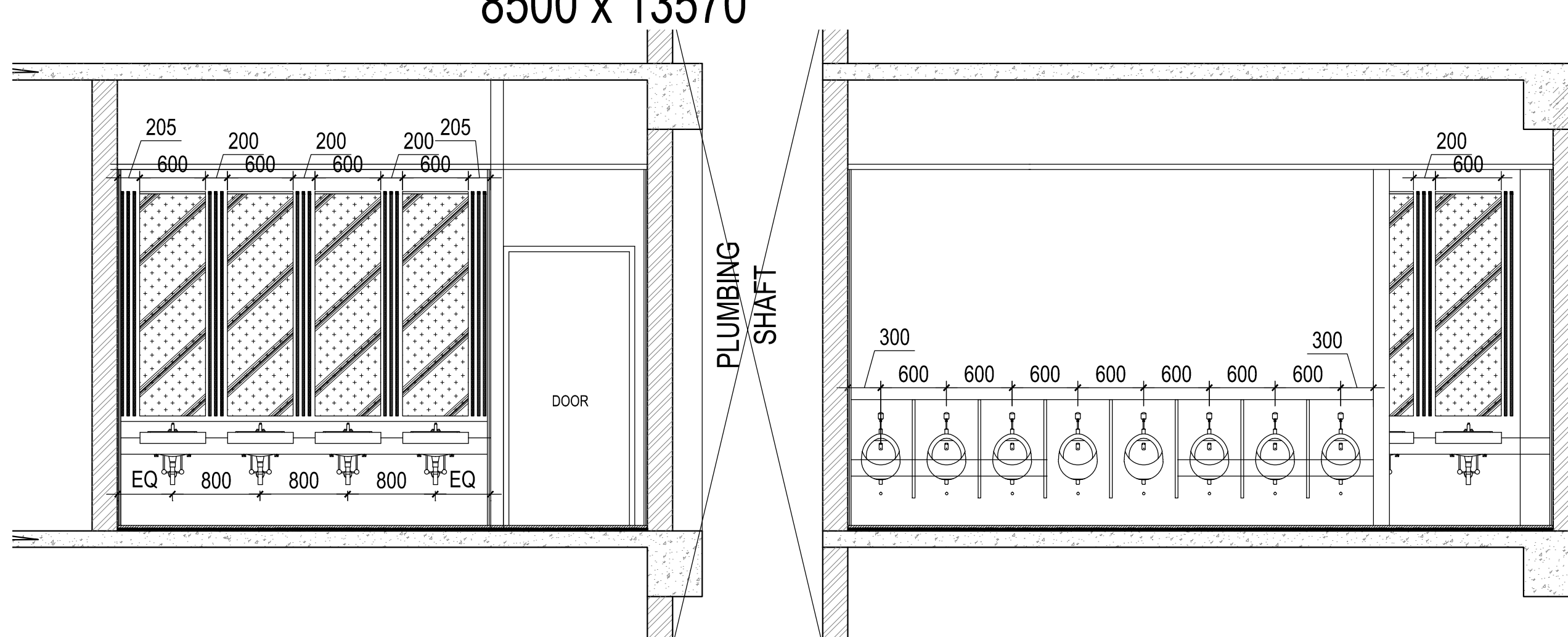
TOILET TILES PLAN
8500 x 13570



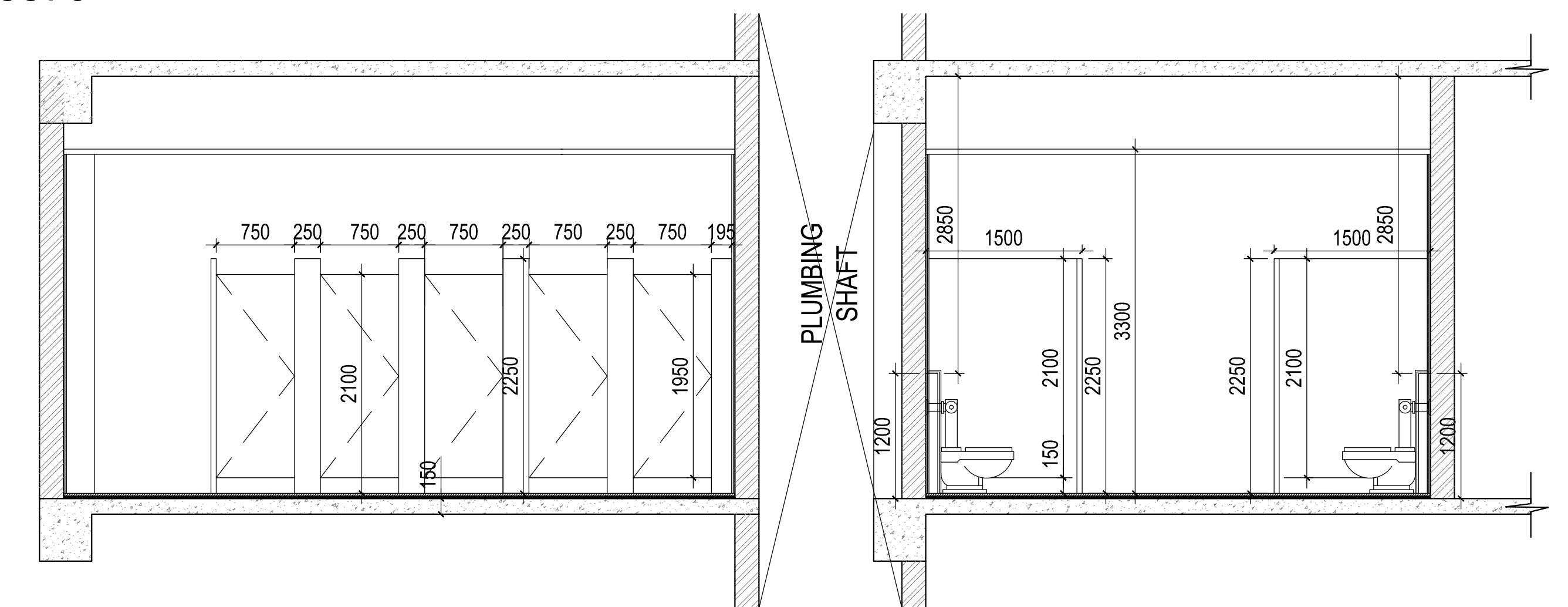
SECTION S1



SECTION S2



SECTION S4

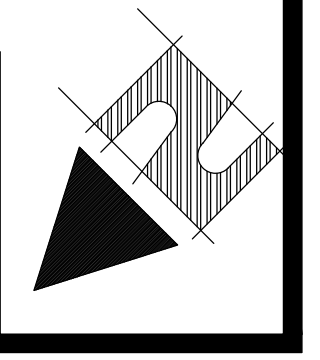


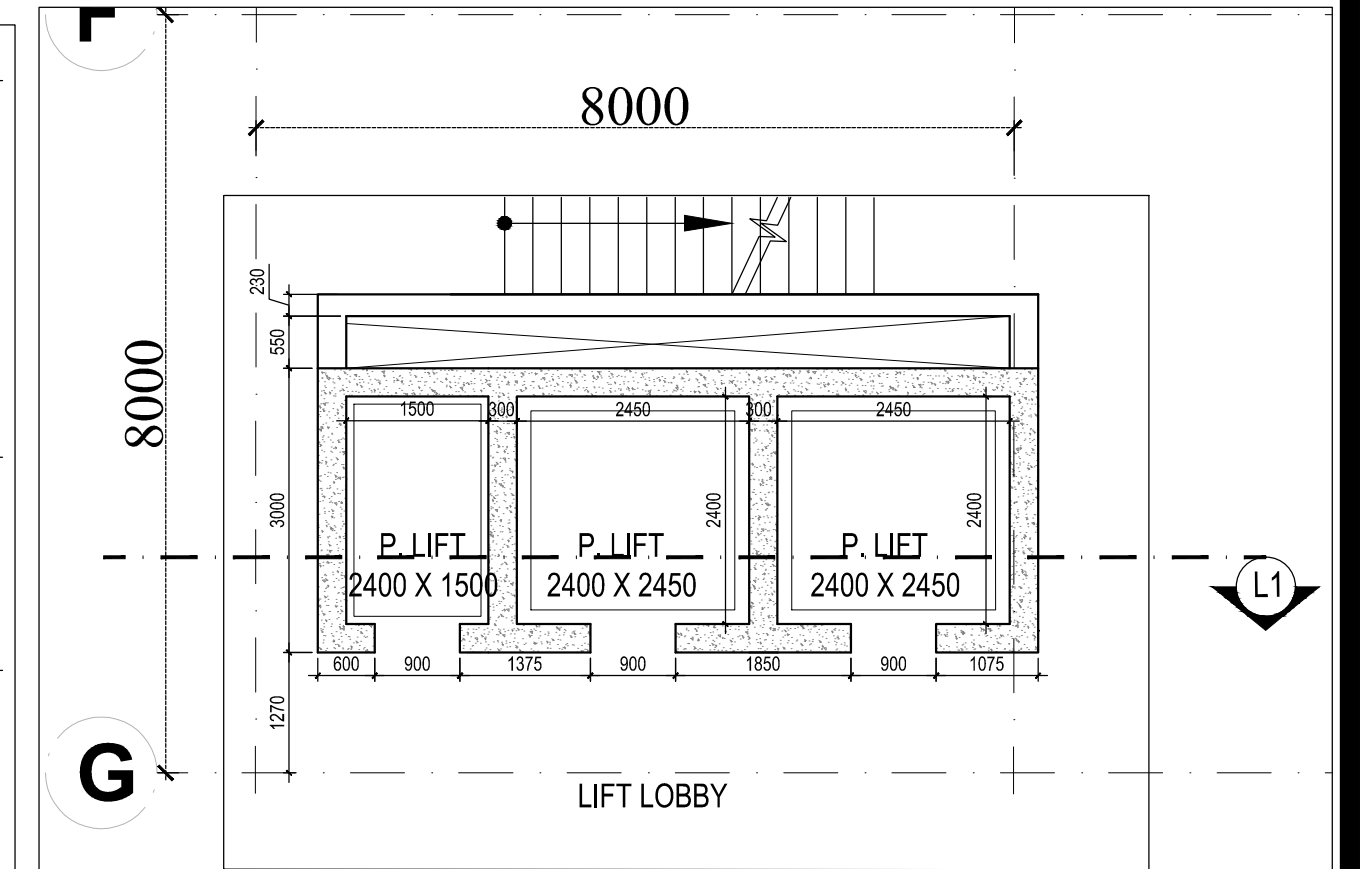
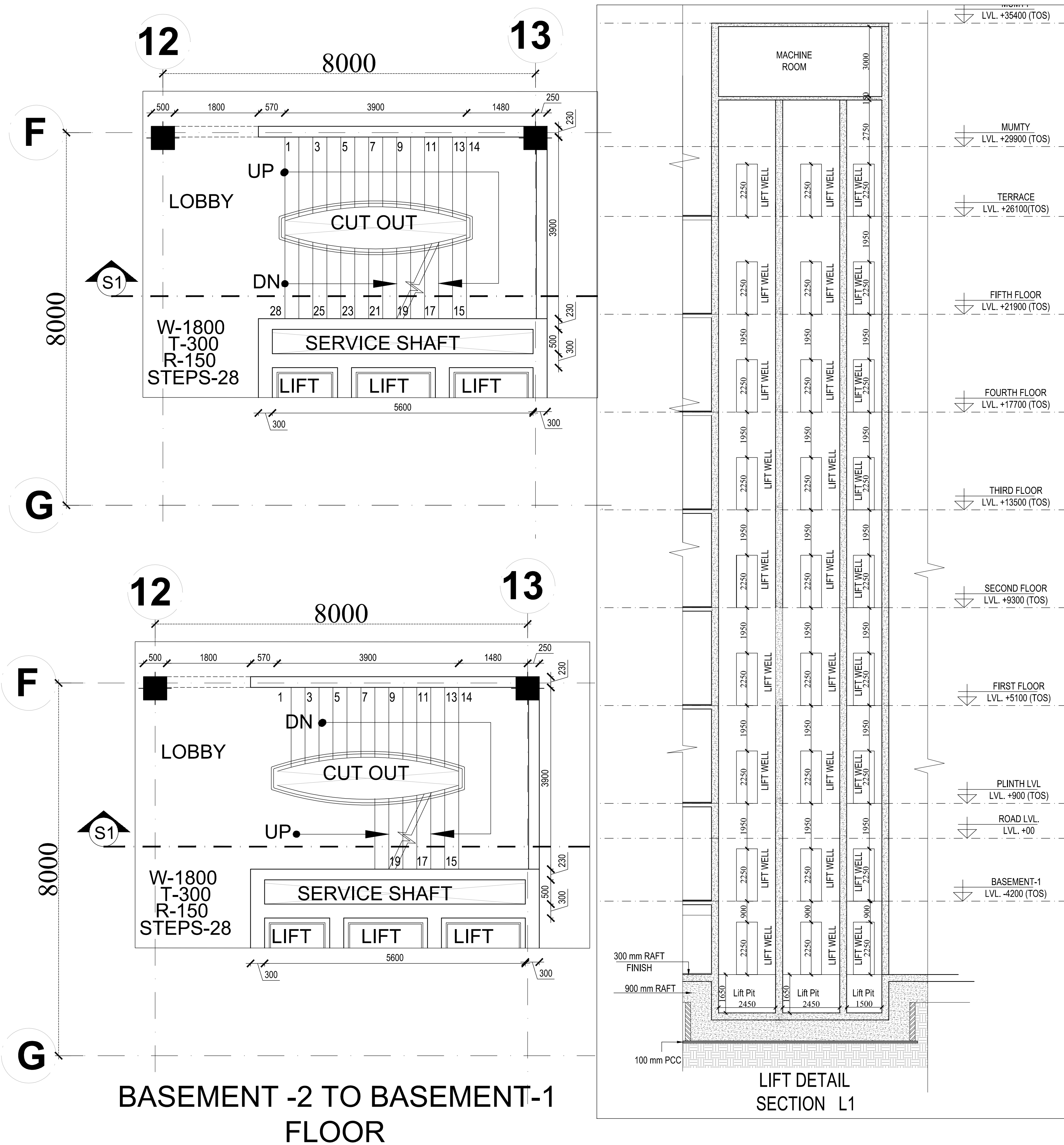
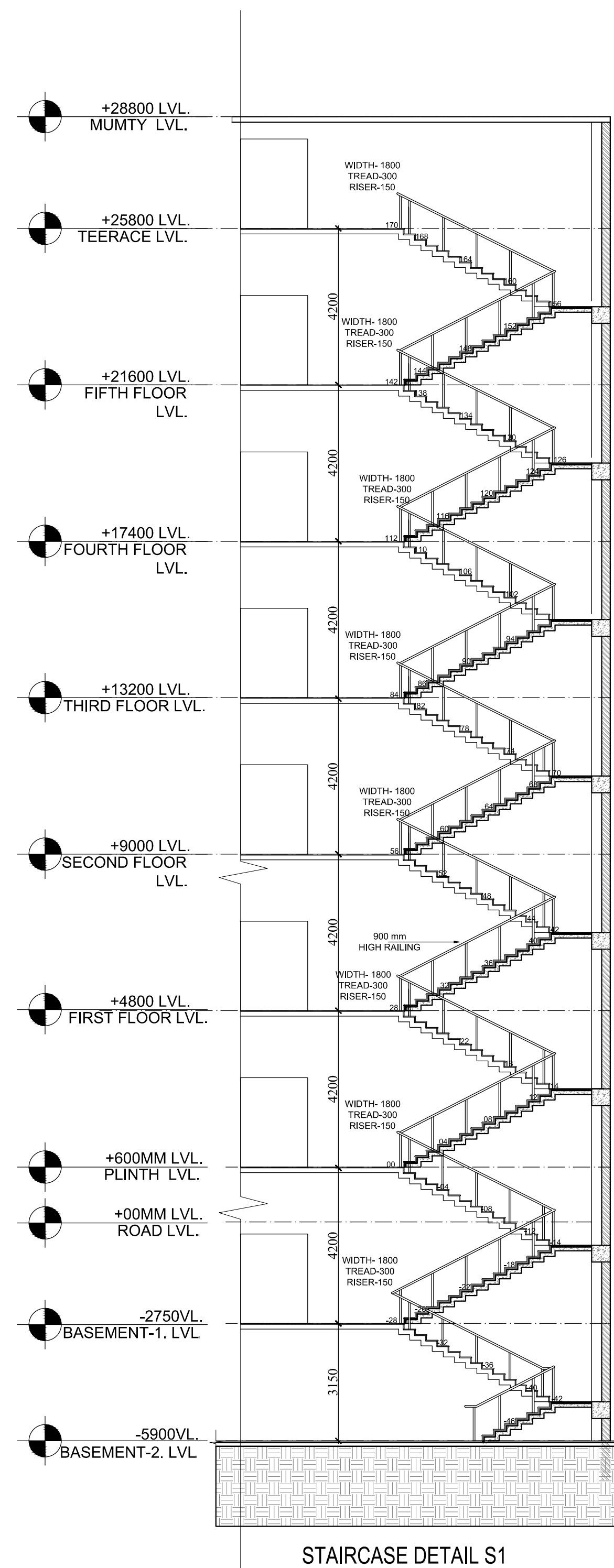
SECTION S3

SCALE 1:50

SHOPPING MALL CUM MULIPLEX

| | |
|---------------------------|--|
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| AR. RAMAKANT | |





TYPICAL FLOOR PLAN
BASEMENT TO TERRACE FLOOR

SCALE 1:75

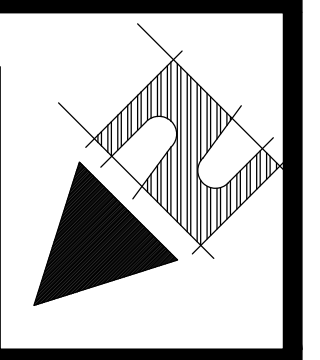
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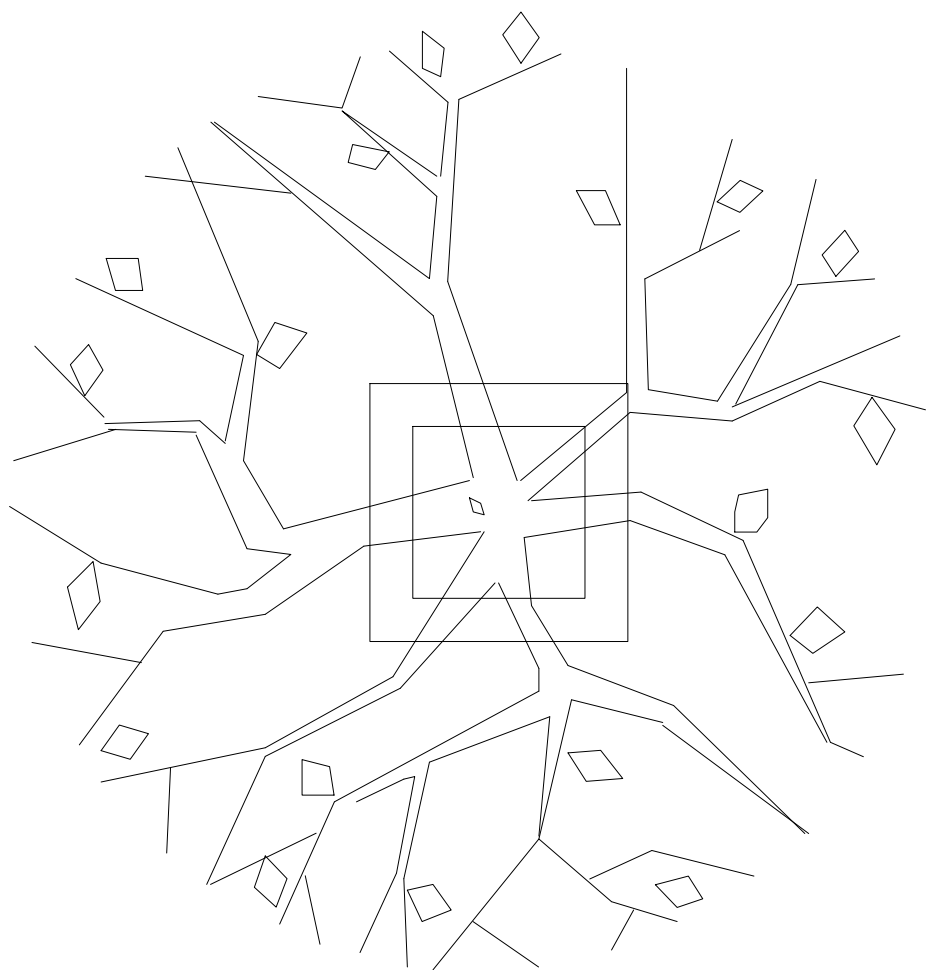
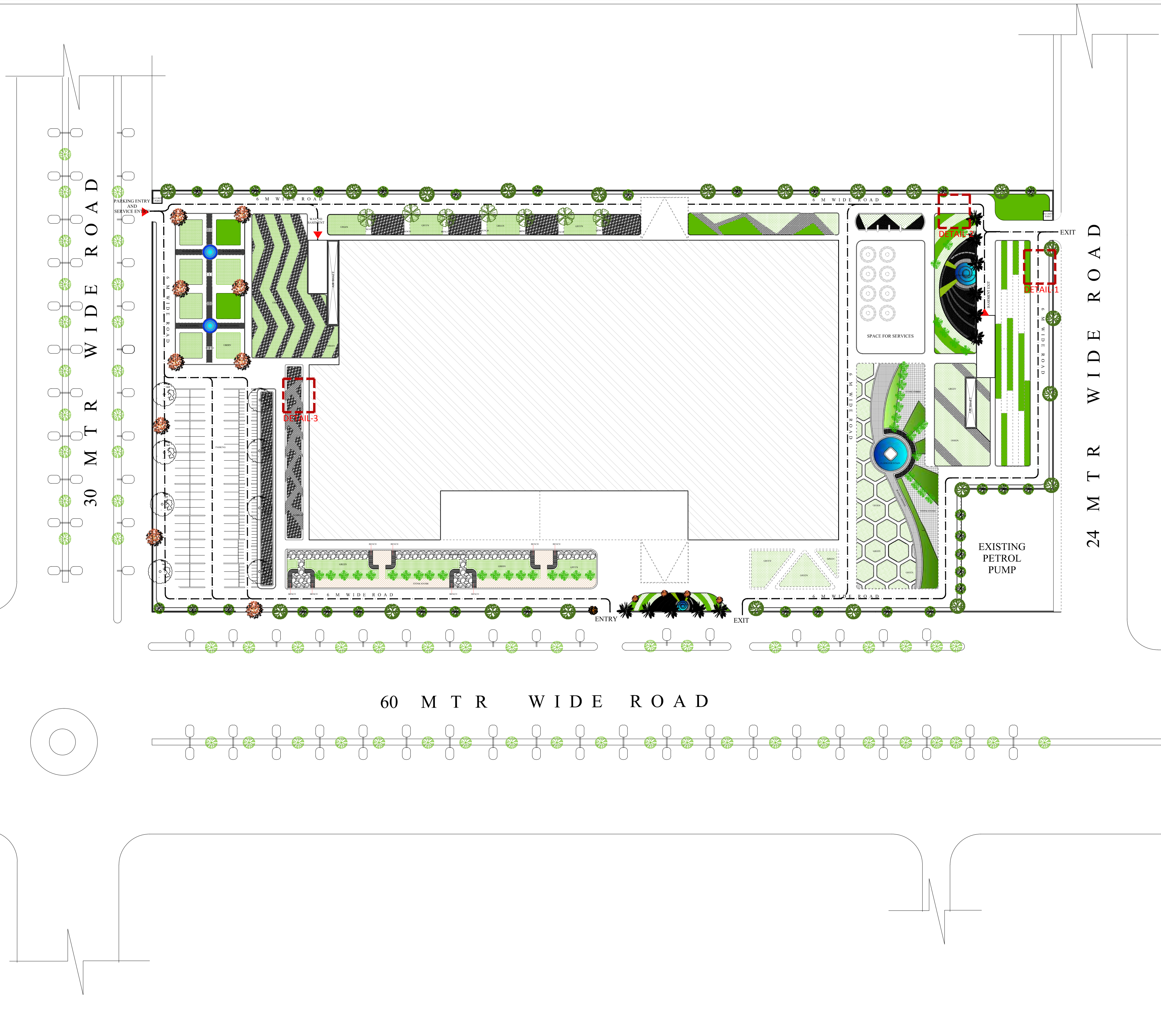
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SHOPPING MALL CUM MULTIPLEX

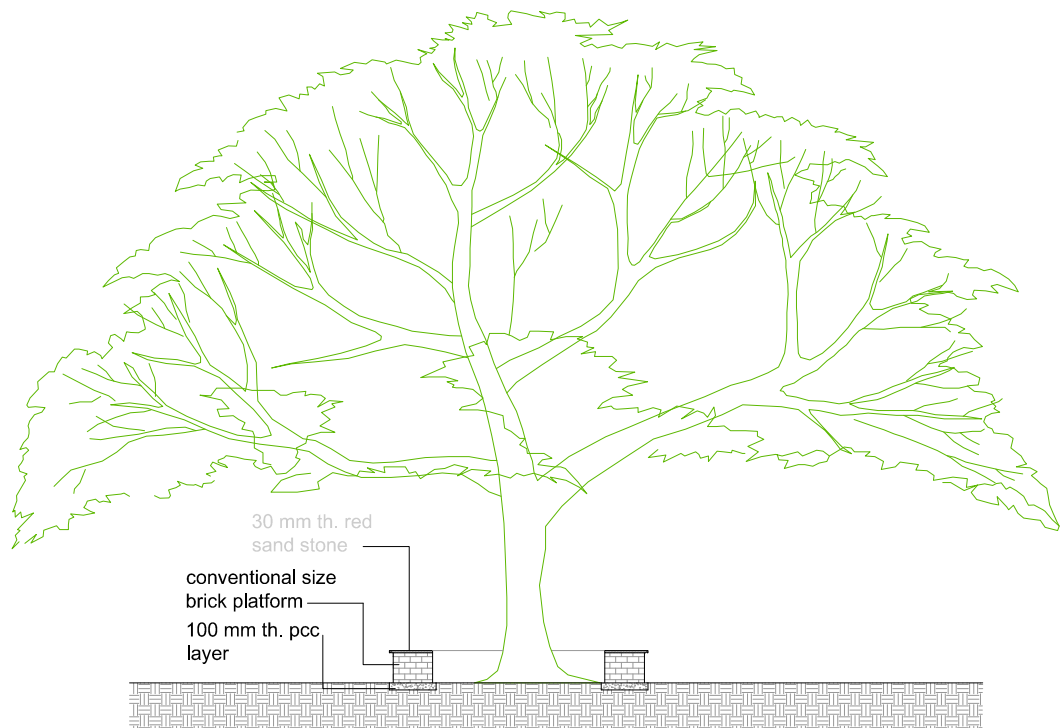
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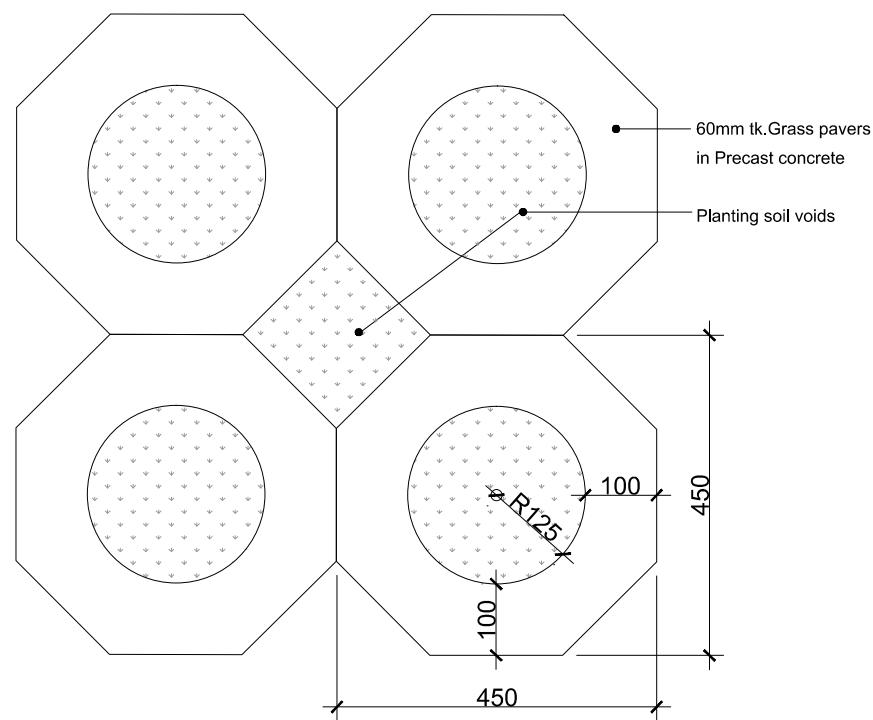




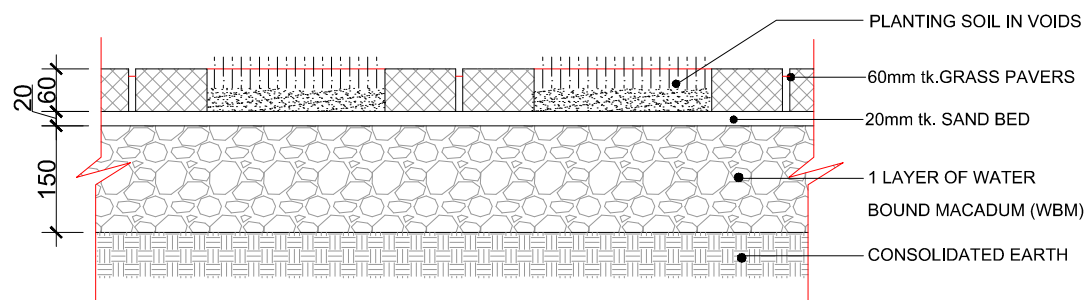
SITTING UNDER TREE : PLAN



SECTION



PLAN-CONCRETE GRASS PAVERS



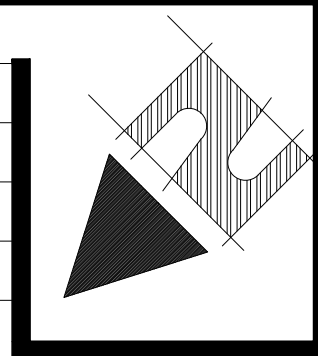
SECTION THRU CONCRETE GRASS PAVERS
SCALE 1:10

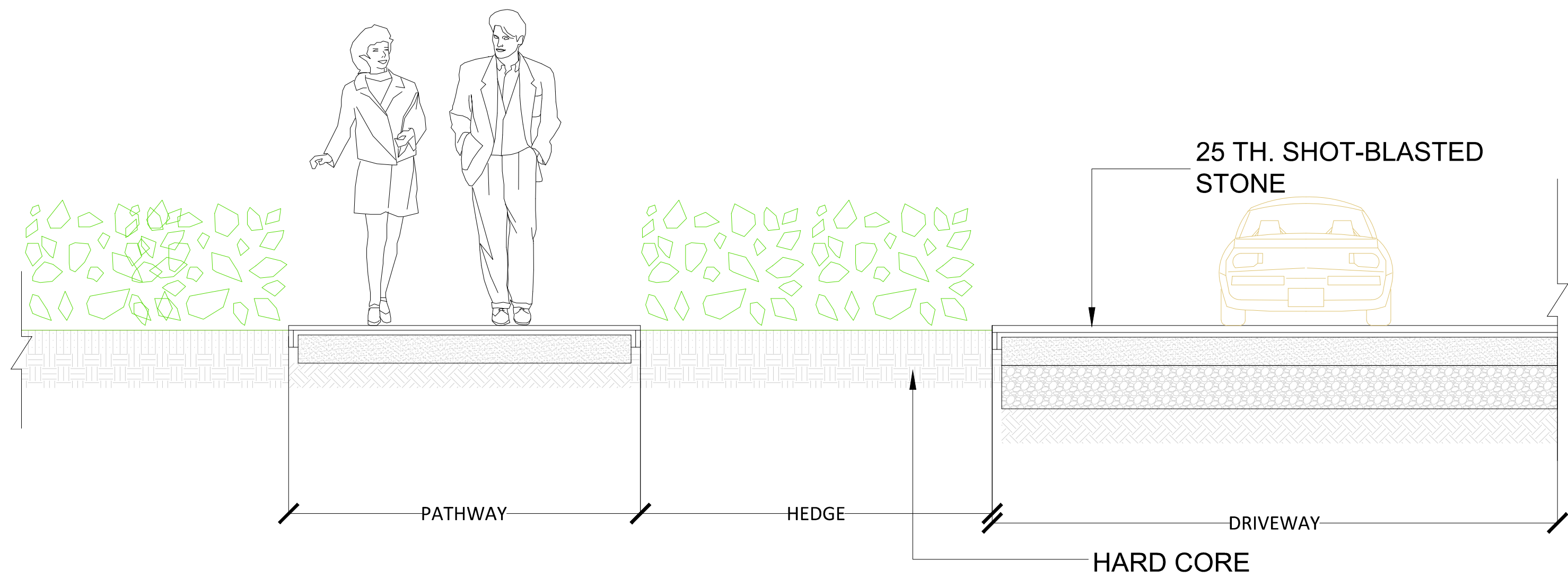
SHOPPING MALL CUM MULTIPLEX

SCALE 1:750

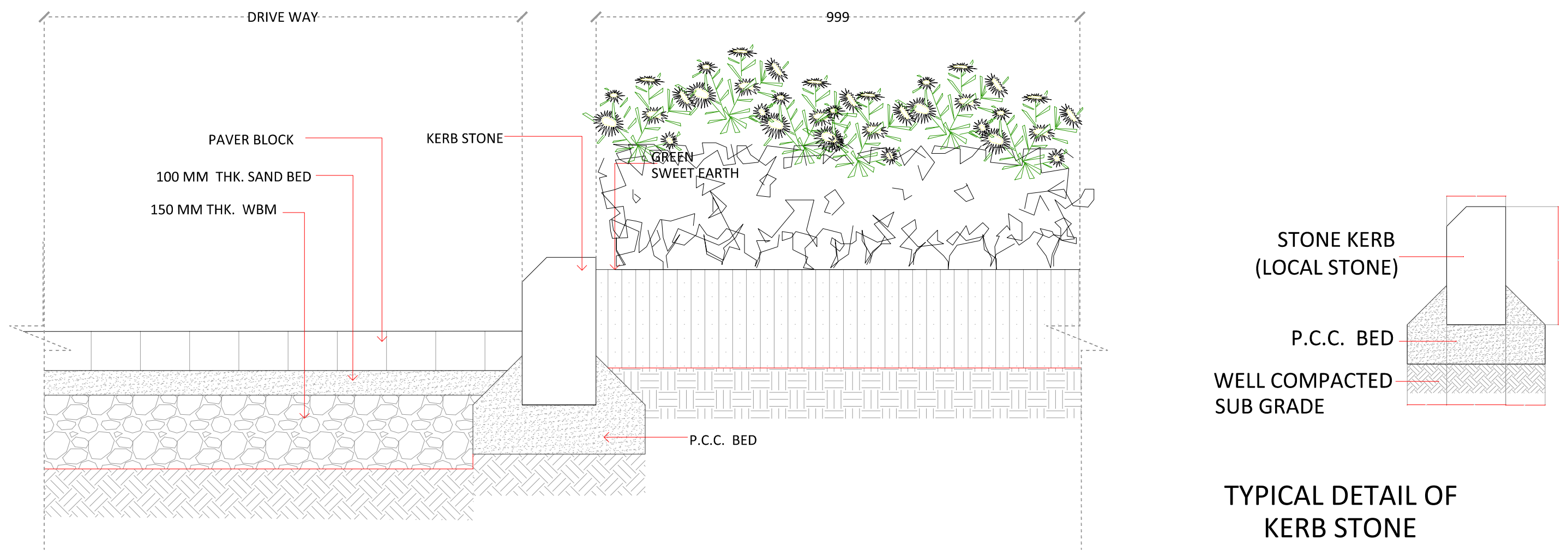
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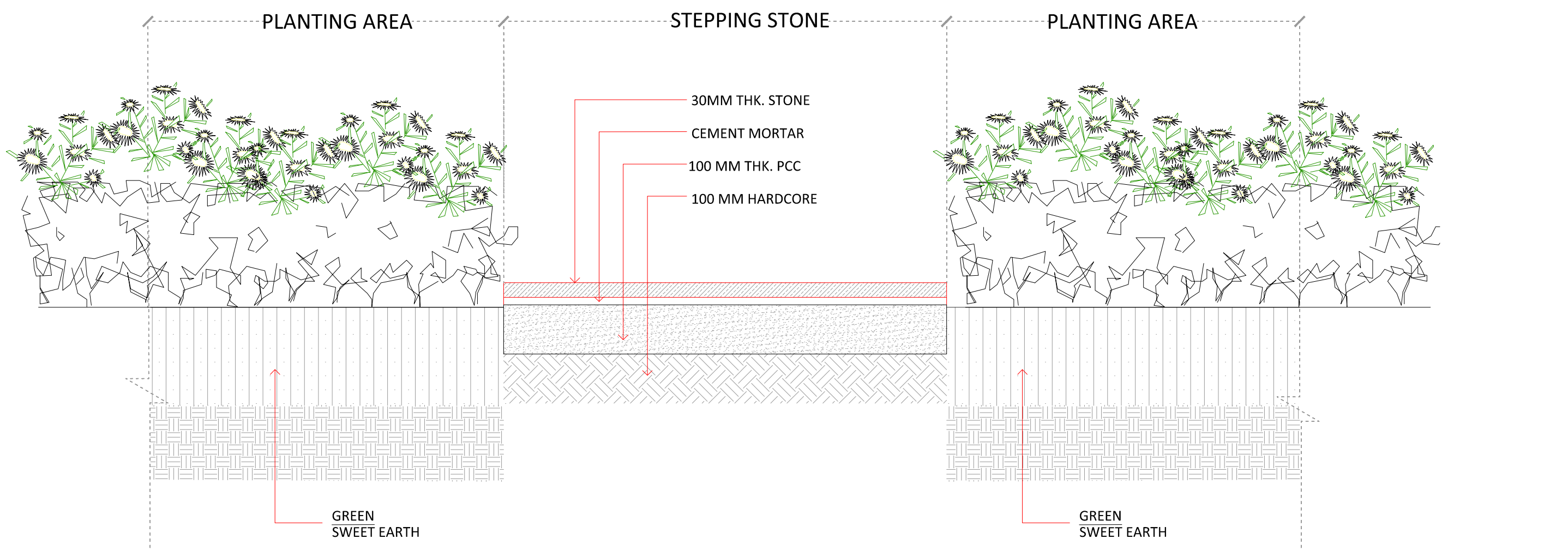




1
DETAIL
SCALE : 1 : 20 @ A1



2
DETAIL
SCALE : 1 : 10 @ A1



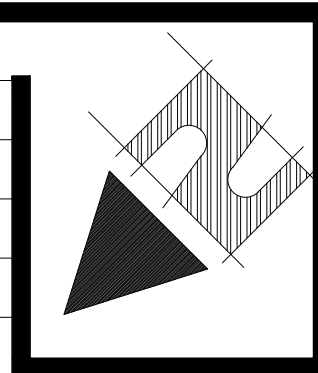
3
DETAIL
SCALE : 1 : 10 @ A1

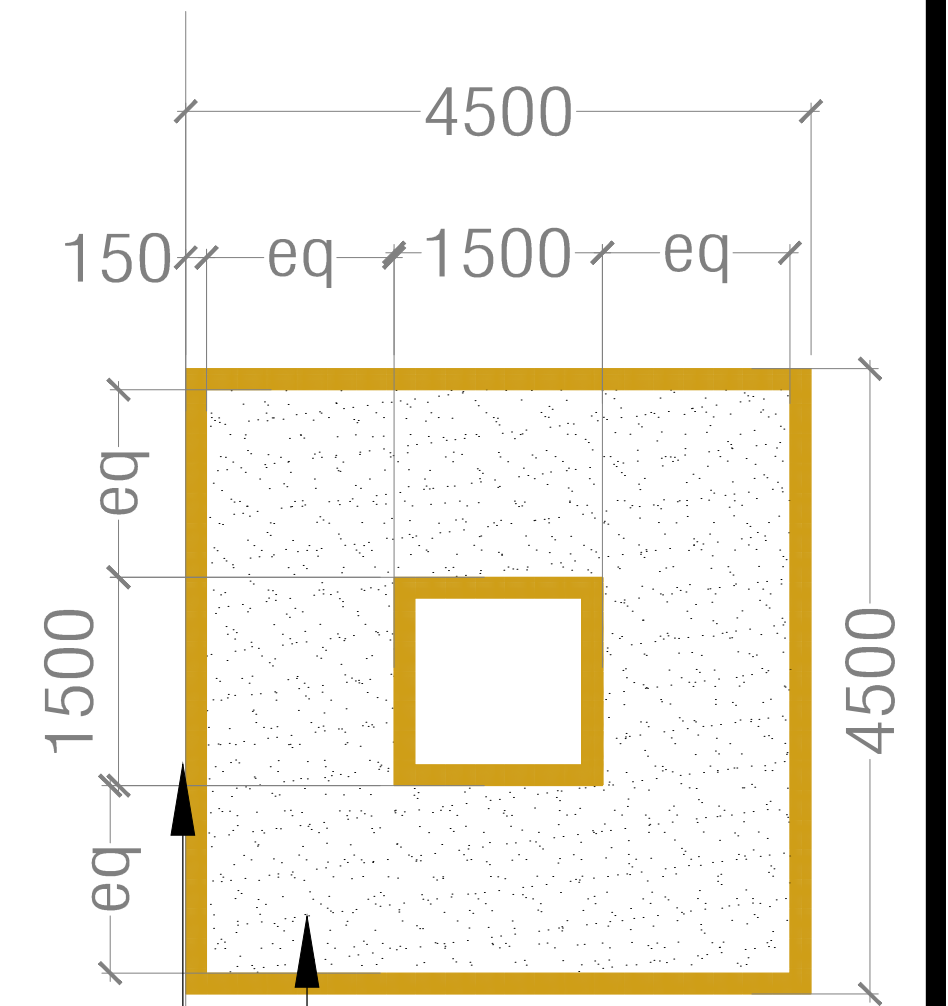
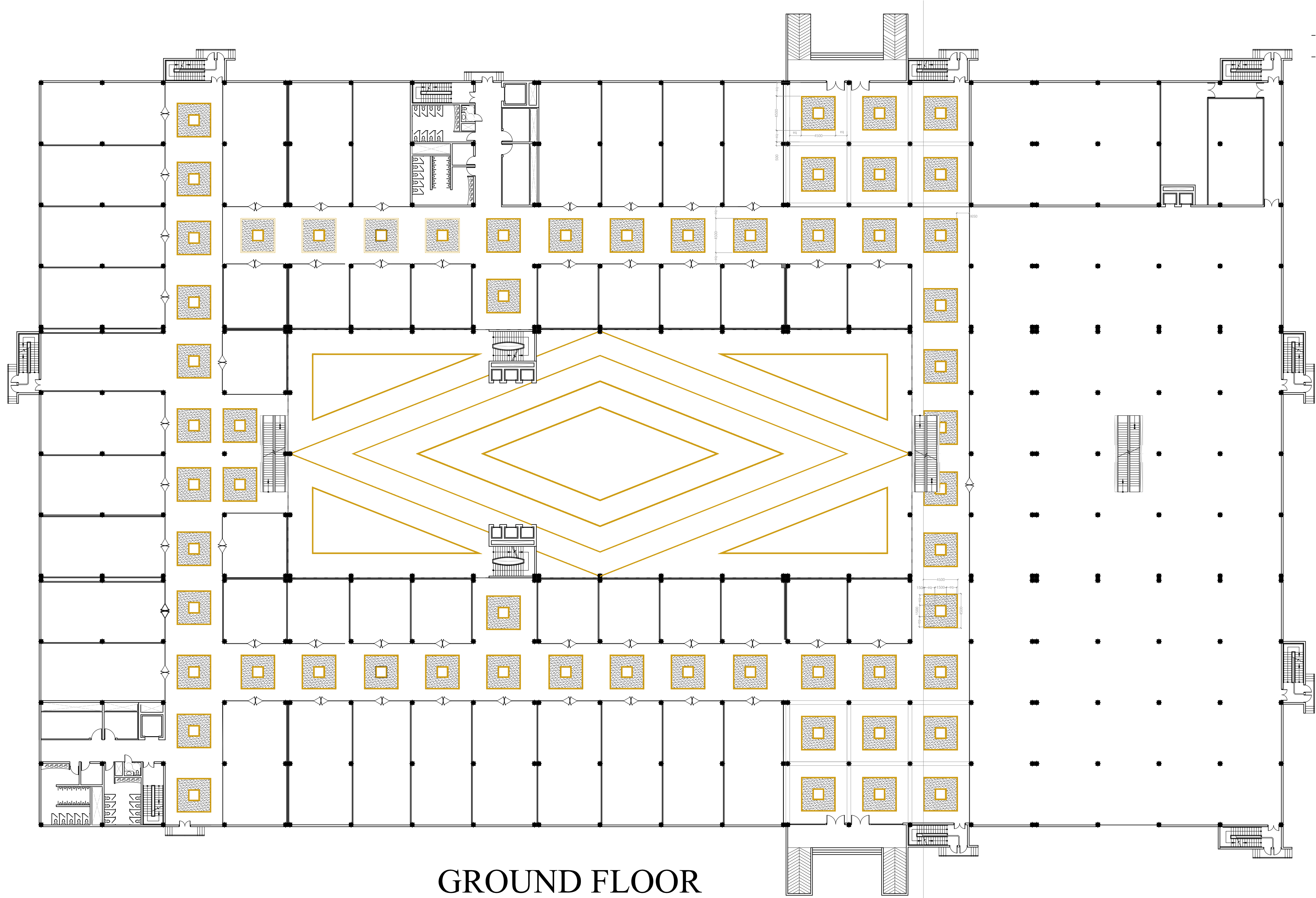
| | | | | | | |
|-----|--------------------------|-----------------|----------------------------|--|--|---|
| 1. | DELONIX REGIA | GULMOHAR | 10 TO 15M; UMBRELLA SHAPED | LIGHT FEATHERY 10 TO 20 CM PINNACAE | SCARLET RED, ORANGE WRINKLED AT TIP, APR-JUN | EVERGREEN, QUICK GROWING |
| 2. | SPATHODEA CAMPANULATA | AMALTAS | 6 TO 10M HIGH | LIGHT FEATHERY 10 TO 20 CM PINNACAE | SCARLET RED, ORANGE WRINKLED AT TIP, APR-JUN | EVERGREEN, QUICK GROWING |
| 3. | | AKASH NEEM | 20MT COLUMNAR | LARGE, 50 TO 60 CM, LEAFLET 4 TO 6 CM LONG | WHITE CYLINDRICAL 25 TO 30CM LONG FRAGRANCE, HT. BLOOMING IN AUTUMN AND SPRING | EVERGREEN, QUICK GROWING |
| 4. | | QUEEN OF NIGHTS | LARGE SHURB | LEAVES ALTERNATE OVATE, ABLONG 10.4CM LONG | CREAMY WHITE LIGHTLY SCENTED, AT NIGHTS, 2CM LONG TUBULAR, BLOOM IN SUMMER AND RAIN | EVERGREEN |
| 5. | AZADIRACHTA INDICA | NEEM | 10 TO 16MT SPHERICAL | DELICATE SHINY 20 TO 40 CMS, SCENTED | YELLOW IN MAR-APR | MEDICINAL PURPOSE, SLOW GROWING |
| 6. | SYZYGIIUM CUMIM | JAMUN | 25 TO 30MT OVAL | DARK GREEN, GLOSSY ROUND LEAVES | SMALL DIRTY WHITE IN FEB-MAY, FRUIT OBLONG FLESHY DEEP PURPLE PULP | BARK IS ASTRIGENT AND USED IN SORE THROATS, ASTHMA ETC. |
| 7. | HIBISCUS ROSA SINENSIS | CHINA ROSE | 1 TO 3M | OVATE COARSELY TOOTHED | LARGE WHITE/ RED/ PINK/ ORANGE COLOURED | USED AS HEDGE |
| 8. | CHRYSANTHIUM | SADABAHAR | 40 TO 60 CM | DULL GREEN SMALL | WHITE / YELLOW / PINK / PURPLE IN WINTER, NUMEROUS PETALS | |
| 9. | CASSIA NODOSA | PINK CASSIA | 12 TO 16M HT; UMBRELLA | 20 TO 30 CM LONG LEAF, DENSE | BRIGHT PINK ON ERCT OCCURS DURIN MAR-APR | EVERGREEN |
| 10. | DELONIX REGIA | GULMOHAR | 12M | | IT IS A TREE THAT IS LARGELY GROWN FOR ITS BEAUTY. THE WOOD WHICH IS WHITE AND SOFT IS USED FOR MAKING ORNAMENTS, AND CAN BE VERY HIGHLY POLISHED. THE FLOWERS AND BUDS ARE USED (AS A HERB) FOR FLAVORING FOOD. | |

SHOPPING MALL CUM MULTIPLEX

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CONCRETE
FLOORING
BRASS STRIP



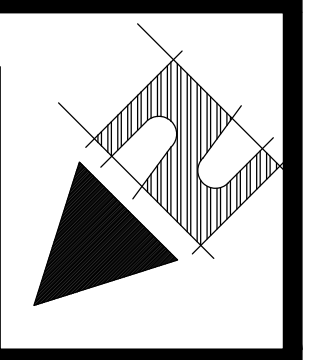
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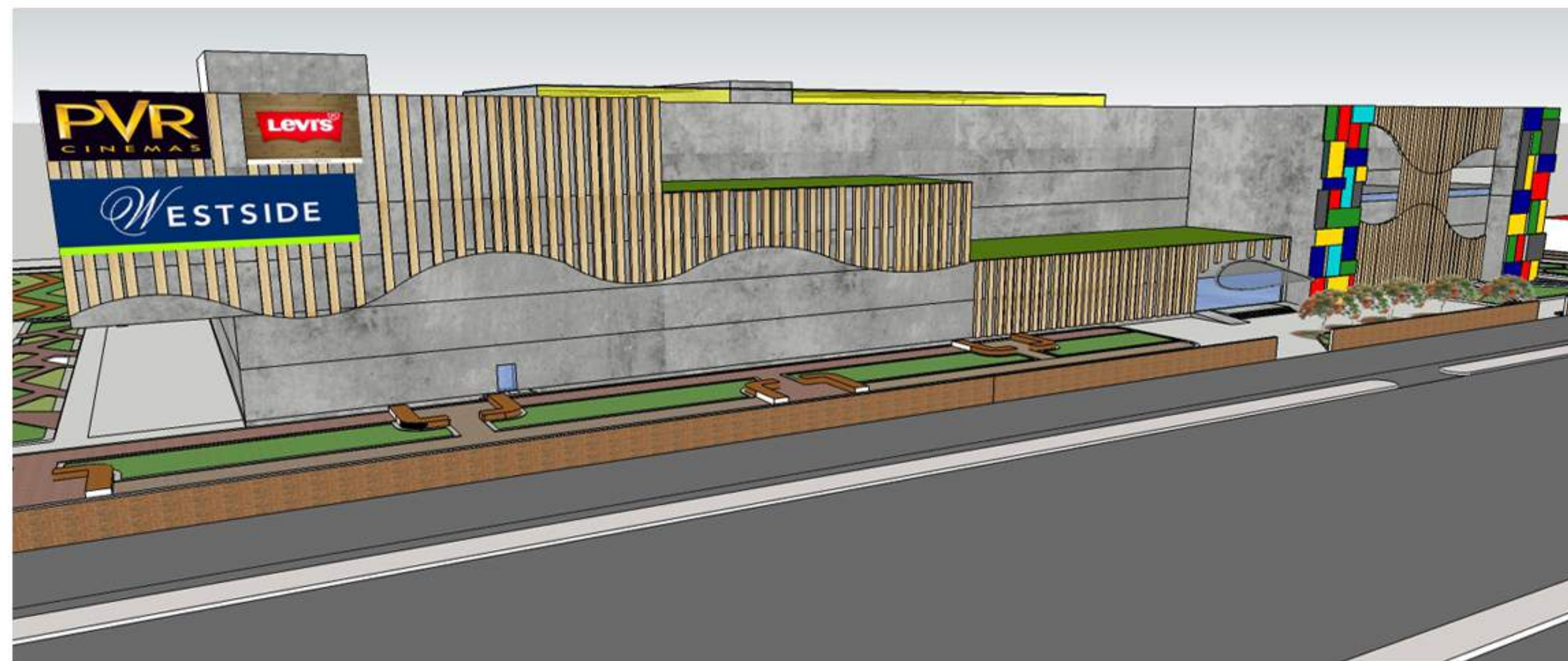
SHOPPING MALL CUM MULIPLIX

Scale :1:250

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