

An architectural rendering of a modern public building complex. On the left is a tall, rectangular high-rise building with a grid-like facade and a glass base. To its right is a large, multi-story low-rise building with a complex, stepped facade and numerous balconies, some of which are green. The scene is set on a city street with cars, pedestrians, and a clear sky. The text "designing public building" is centered in the image, with "• high rise • low rise •" below it. At the bottom right, the words "THE SERPENTINE W" are visible in large, golden letters.

designing public building
• high rise • low rise •

THE SERPENTINE W

high rise public building

• mandiri •

• bni 46 •

A **public** space is a **place** that is generally open and accessible to people. Roads (including the pavement), **public** squares, parks and beaches are typically considered **public** space.

The Czech Republic, defines **public** as; all **buildings** that are not apartments or are non-residential. Finland; those **buildings** which provide **public** services. France; a **building** that is occupied by a governmental body.



building

building is a living organism
that constructed on a **system**
it consumes energy, and
it releases waste and
it changes environment

building capacity with 20.000 sqm gfa and 20% efficiency rate (typical block size)

	OFFICE			APARTMENT		
STRATA	A	B	C	PREMIUM	MEDIUM	AFFORD
UNIT	> 25 SQM / PAX	20-25	10-15	80 - 100	150 - 180	500 - 600
RESIDENT	500 - 600	600 - 800	1100 - 1600	320 - 400	600 - 720	2000 - 2400
CLEAN WATER	60000 L	80000 L	160000 L	50000 L	72000 L	240000 L
GREY WATER	60000 L	80000 L	160000 L	50000 L	72000 L	240000 L
ELECTRICITY				500.000 ++	540.000 ++	180.000 ++
FACILTIES				COMMERCIAL	DAY CARE	SCHOOL

- 1 RT (banjar) : Terdiri dari 250 enduduk.
- 1 RW (beberapa banjar) : 10 RT
- 1 Lingkungan (kelurahan, desa) : 12 RW
- 1 Kecamatan : 4 Lingkungan
- 1 Wilayah : 4 Kecamatan
- 1 Kota : 4 Wilayah

Pemkab Sleman Keluarkan Moratorium Hingga 2021 Tak Boleh Ada Hotel dan Apartemen Baru

Kamis, 10 Desember 2015 21:16





Krisis Air Akibat Pembangunan Hotel dan Apartemen tak Terkendali

Oleh: Wilujeng Kharisma 23 Februari, 2016 - 21:12

NASIONAL

YOGYAKARTA, (PRLM).- Tidak terkendalinya pembangunan hotel dan apartemen di wilayah perkotaan Yogyakarta dan Kabupaten Sleman menimbulkan ancaman krisis air bersih di wilayah setempat dan wilayah hilir. Demikian dikata Direktur Eksekutif Wahana Lingkungan Hidup Indonesia (Walhi) Yogyakarta, Halik Sandera, Selasa (23/2/2016).

"Krisis air ini tidak hanya akan dirasakan warga yang tinggal di sekitar lingkungan hotel, tapi juga pengguna jasa perusahaan daerah air minum (PDAM) secara umum," ucapnya.

Menurut Halik, investasi hotel maupun apartemen mayoritas menggunakan sumber air dari PDAM, padahal perusahaan yang dikelola pemerintah daerah itu belum bisa optimal melayani kebutuhan masyarakat.

"Justru akan timbul semacam kompetisi antara warga dengan investor. Ujung-ujungnya, masyarakat yang dirugikan karena pasokan air lebih banyak tersedot untuk kebutuhan hotel," katanya.

Halik mengatakan, semestinya PDAM lebih mengutamakan kepentingan warga terlebih dulu. Jika ada sisa, baru digunakan untuk keperluan dunia usaha.

TERBARU



**Nurul Arifin
Ditemani Acil Bimbo
di Dago, Mereka
Bicara Kembang**

23 Februari, 2018 - 01:30



**Belanja Masalah ala
Ridwan Kamil di
Pasar Pamanukan
Subang**

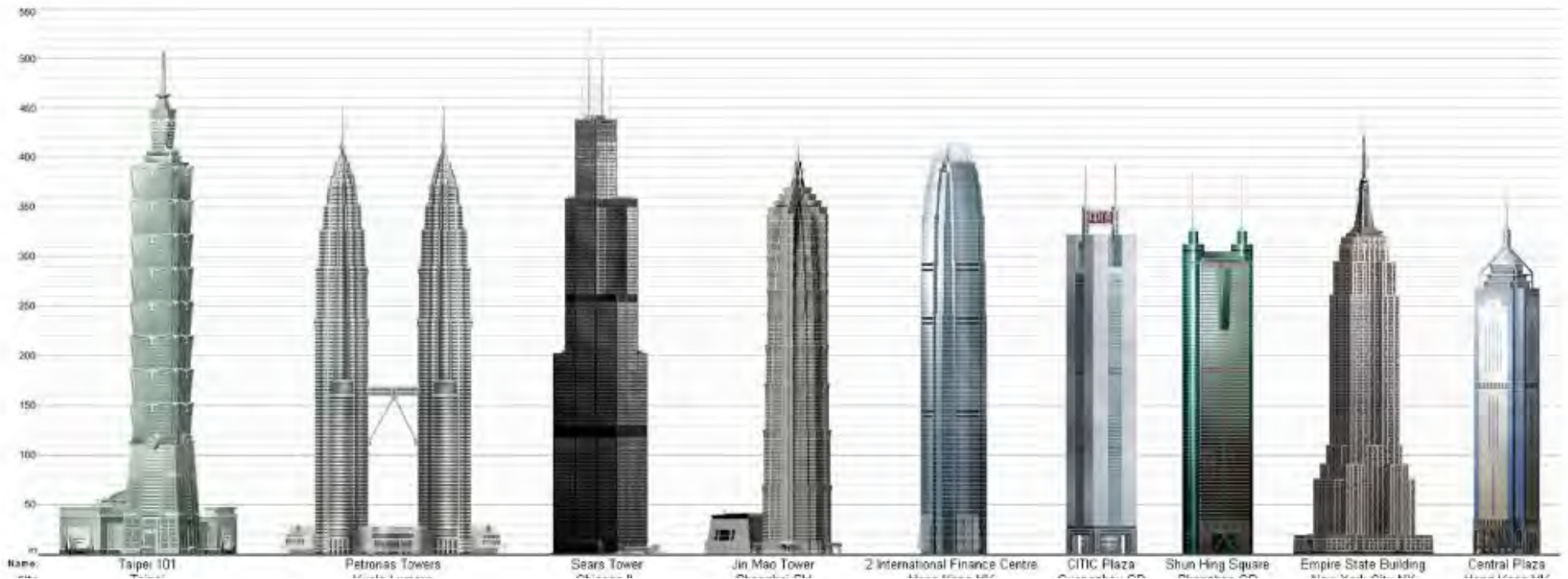


definition

8 storey : low rise

16 storey : mid rise

24-32 storey : high rise





highrise

(mostly) single building form
driven by the understanding of
structure principles and the
availability of technology





highrise

structure will drive the layout
based on the form.
dynamic form creates
permutation and additional cost

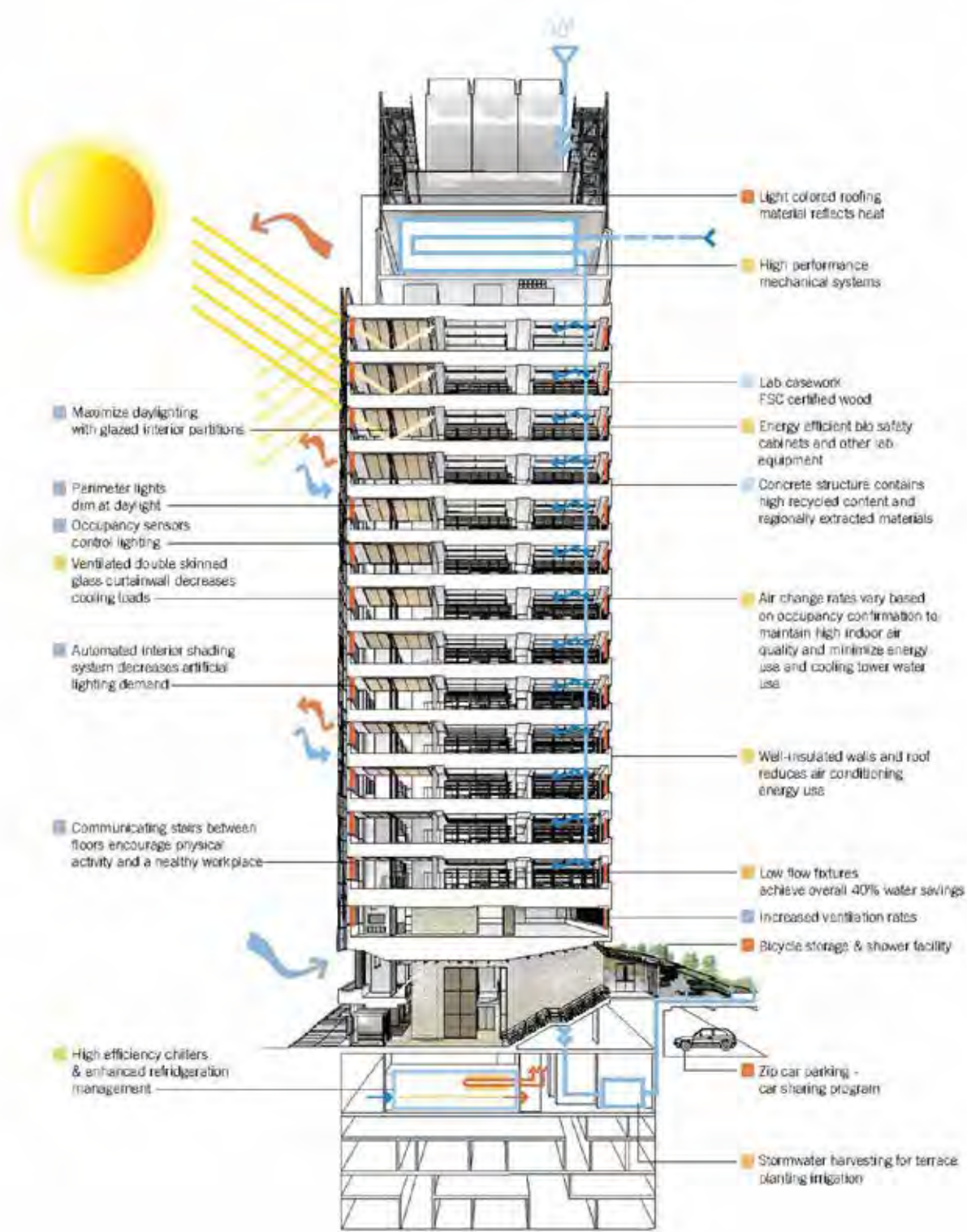




highrise

the better the understanding of
the designer on multi disciplines
principle, the better the building
response





Maximize daylighting with glazed interior partitions

Perimeter lights dim at daylight

Occupancy sensors control lighting

Ventilated double skinned glass curtainwall decreases cooling loads

Automated interior shading system decreases artificial lighting demand

Communicating stairs between floors encourage physical activity and a healthy workplace

High efficiency chillers & enhanced refrigeration management

Light colored roofing material reflects heat

High performance mechanical systems

Lab casework FSC certified wood

Energy efficient bio safety cabinets and other lab equipment

Concrete structure contains high recycled content and regionally extracted materials

Air change rates vary based on occupancy confirmation to maintain high indoor air quality and minimize energy use and cooling tower water use

Well-insulated walls and roof reduces air conditioning energy use

Low flow fixtures achieve overall 40% water savings

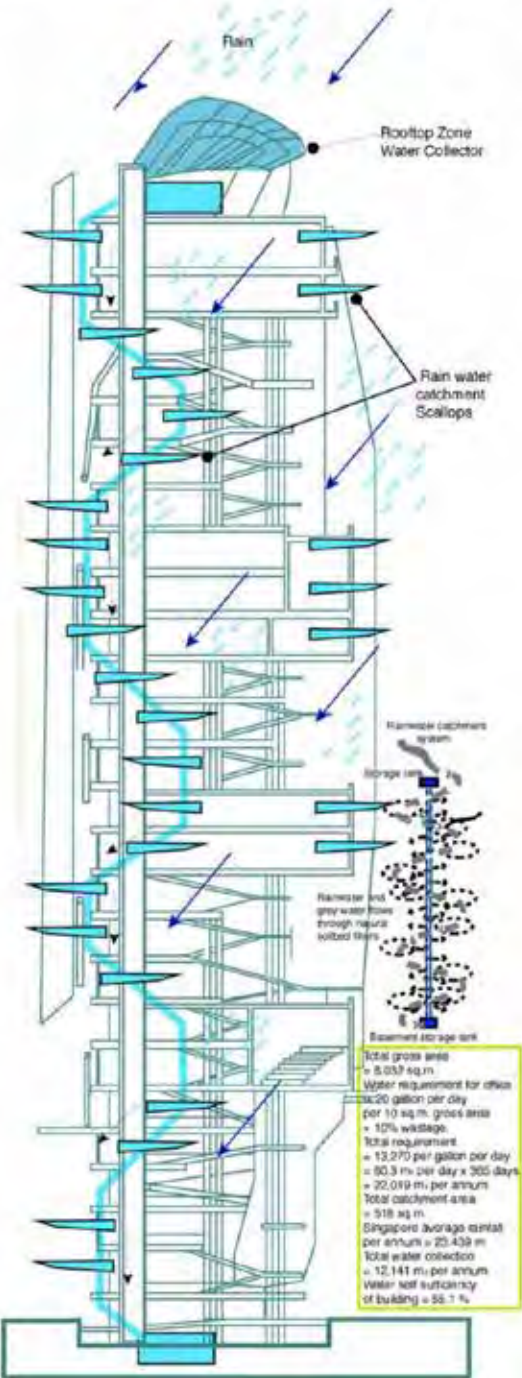
Increased ventilation rates

Bicycle storage & shower facility

Zip car parking - car sharing program

Stormwater harvesting for terrace planting irrigation

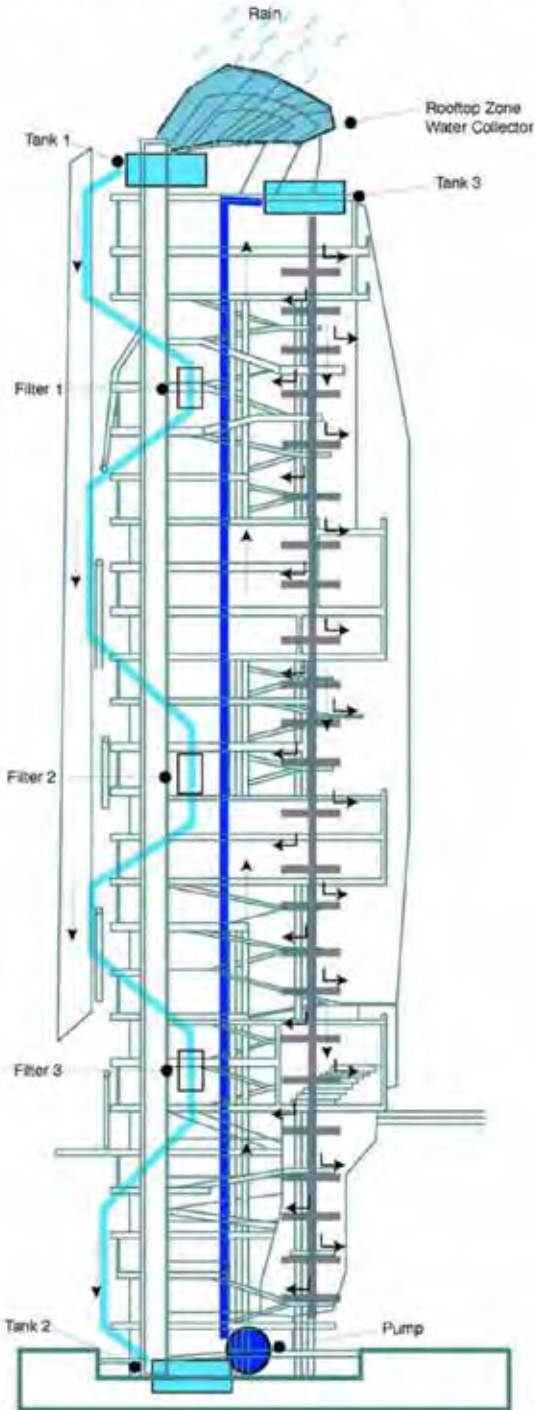
Rainwater Collection & Recycling



Total gross area
 = 8,037 sq.m
 Water requirement for office
 = 20 gallon per day
 per 10 sq.m. gross area
 = 10% wastage.
 Total requirement
 = 13,270 per gallon per day
 = 80.3 m³ per day x 305 days
 = 22,019 m³ per annum
 Total catchment area
 = 918 sq.m
 Singapore average rainfall
 per annum = 23,438 m
 Total water collected
 = 12,141 m³ per annum
 Water self sufficiency
 of building = 55.1 %

● Rainwater Collection and Recycling System

Rainwater Gravity Filtration System



● Rainwater Purification System



planning issue (office, hotel, apartment)

building strata - premium, medium, affordable
saleable area / efficiency (office & apartment)

supporting facilities - parking lot & lift ratio

A faded, grayscale background image of several skyscrapers, including the Petronas Twin Towers and the Willis Tower, is visible behind the text.

saleable area (comm office & apartment)

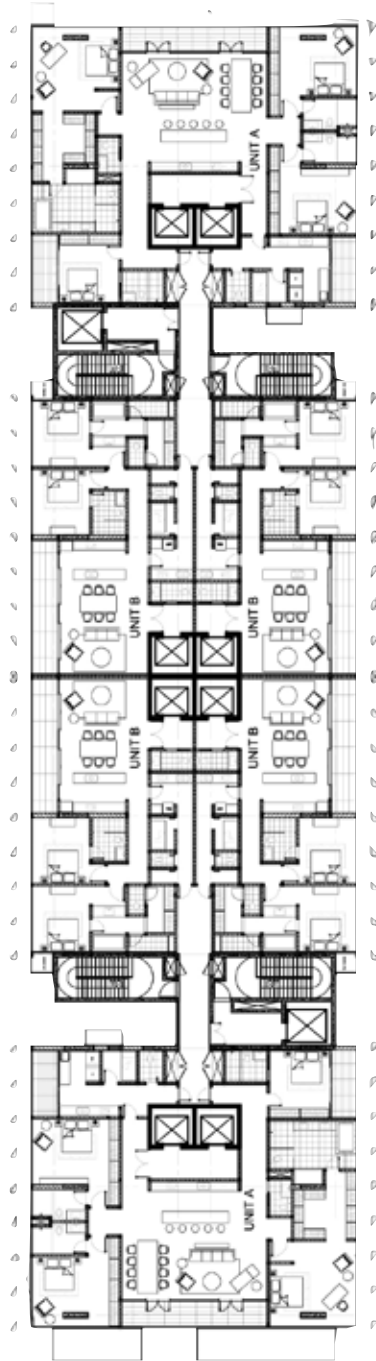
is the first information that justify whether the building constructed or need design adjustment
minimum number of efficiency is 75% of total GFA
some developer use nett area : gross area should be > 52%

MENTENG 37

double single tower
to form slab tower

premium apartment

efficiency : 77%

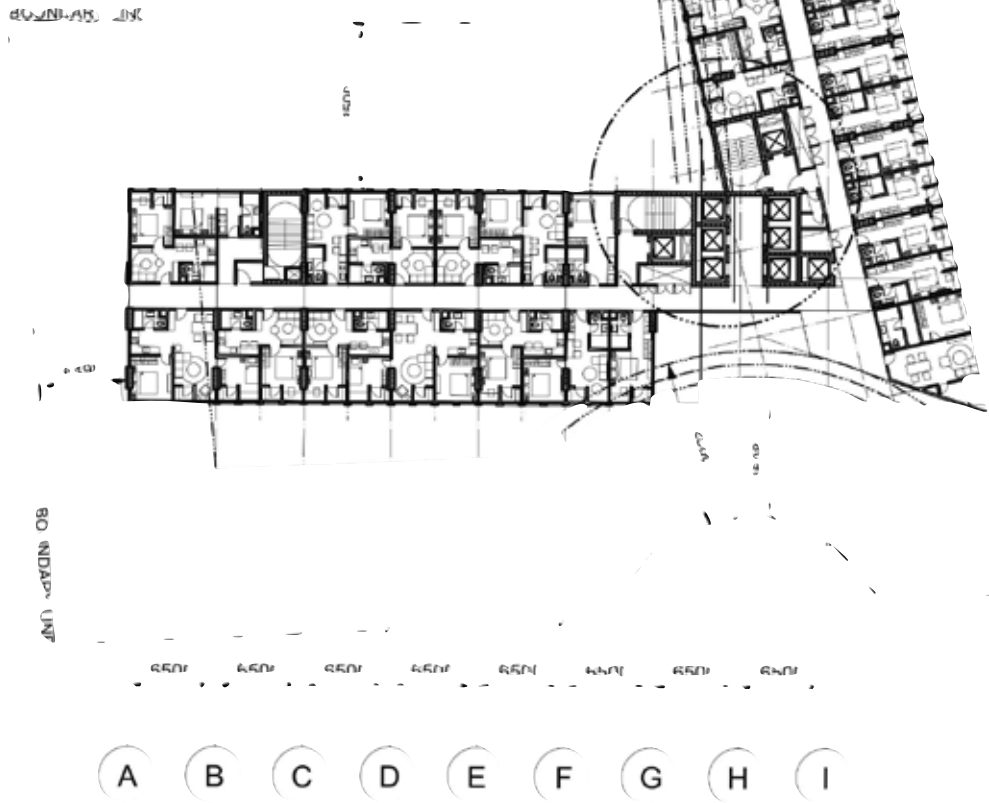


SKYHIVE CAWANG

slab tower

medium - affordable
apartment

77% efficiency

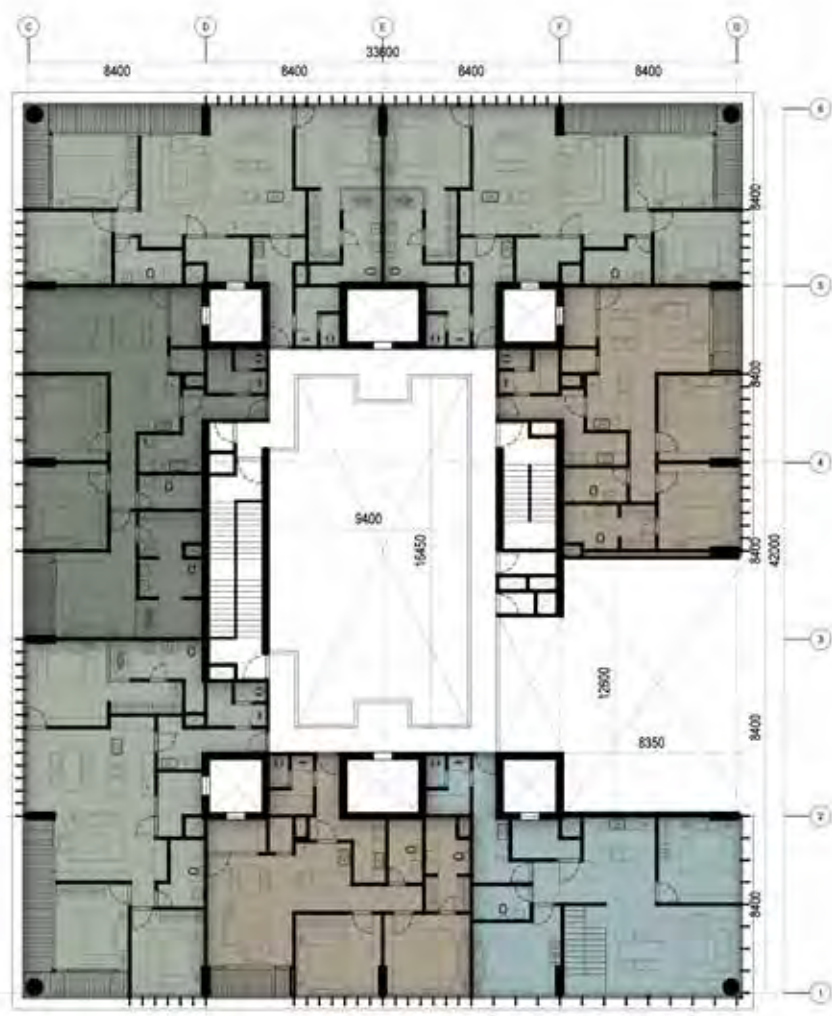


SAUMATA

tower

premium
apartment

74% efficiency



parking lot

- basement footprint max at 30% GFA ratio else counted as additional GFA
 - developer & engineers prefer to keep basement at 3 layers, and the rest go surface parking / podium parking
- parking ratio & density facing challenging situation with higher plot ratio (KLB) and affordable class strata





other technical issue :

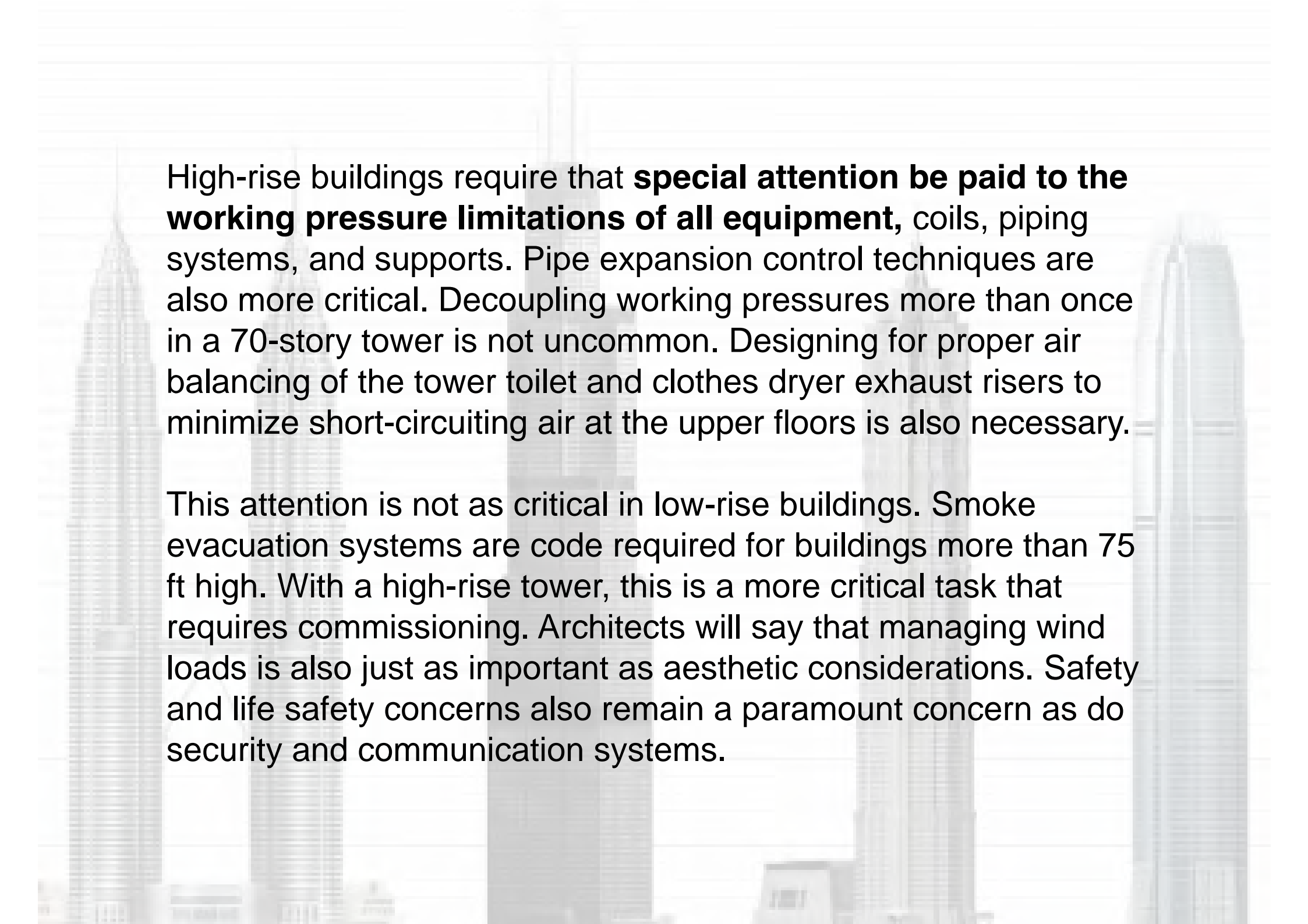
quake zone

mep vertical zoning

maintenance accessibility

skin building - wind pressure - wind map

fire fighting & escape route



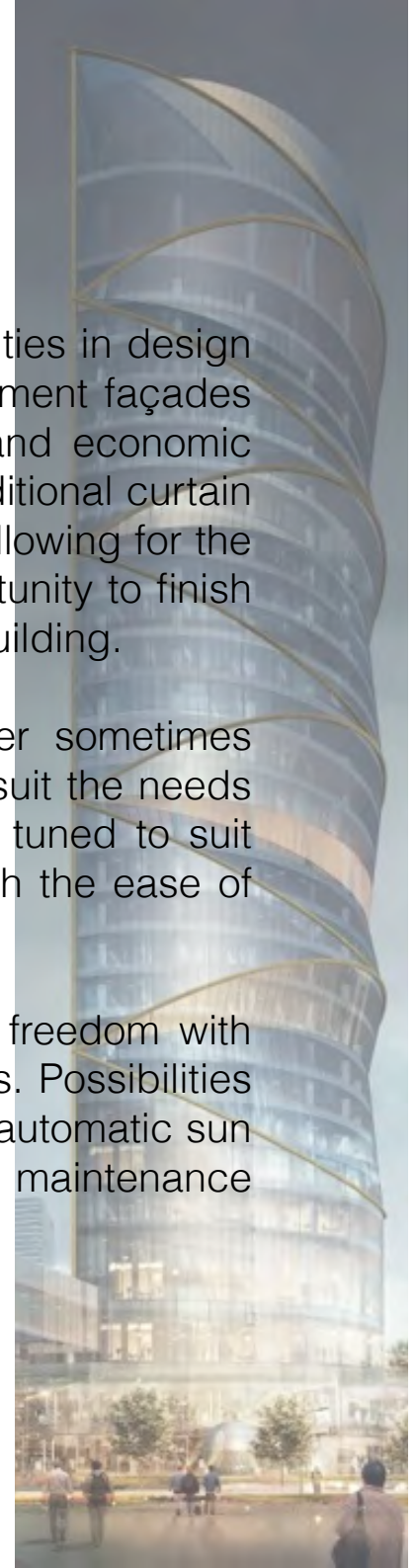
High-rise buildings require that **special attention be paid to the working pressure limitations of all equipment**, coils, piping systems, and supports. Pipe expansion control techniques are also more critical. Decoupling working pressures more than once in a 70-story tower is not uncommon. Designing for proper air balancing of the tower toilet and clothes dryer exhaust risers to minimize short-circuiting air at the upper floors is also necessary.

This attention is not as critical in low-rise buildings. Smoke evacuation systems are code required for buildings more than 75 ft high. With a high-rise tower, this is a more critical task that requires commissioning. Architects will say that managing wind loads is also just as important as aesthetic considerations. Safety and life safety concerns also remain a paramount concern as do security and communication systems.

The concept of an element, or unitized façade is inspiring due to endless possibilities in design freedom whilst keeping a high quality finished product due to pre-fabrication. Element façades are composed out of individual pre-fabricated elements. This results in a fast and economic installation with limited use of resources in manpower and tooling compared to traditional curtain walls. This construction principle is extremely suitable for high rise constructions, allowing for the necessary tolerances with regard to the building movement, and giving the opportunity to finish the building construction floor by floor allowing for parallel construction inside the building.

Element façades are available in a wide range of standard solutions, however sometimes standard isn't good enough. Sometimes your projects need a specific solution to suit the needs and requirements of that particular construction. Element façades can be easily tuned to suit those requirements which will enable you to get the required result combined with the ease of installation typical to element façades.

Element façades will also provide the architect with an almost unlimited design freedom with regard to integration of different finishing and by incorporating different techniques. Possibilities going from high insulated structures, ventilated façades, double skin façades with automatic sun shading, automatic opening windows, to linking the techniques with building maintenance systems.

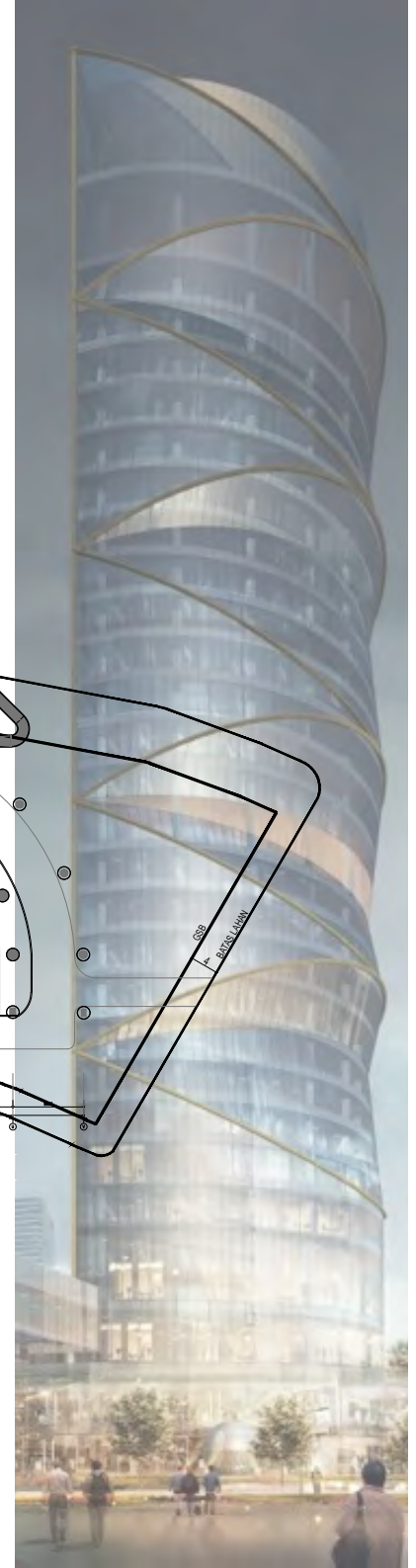
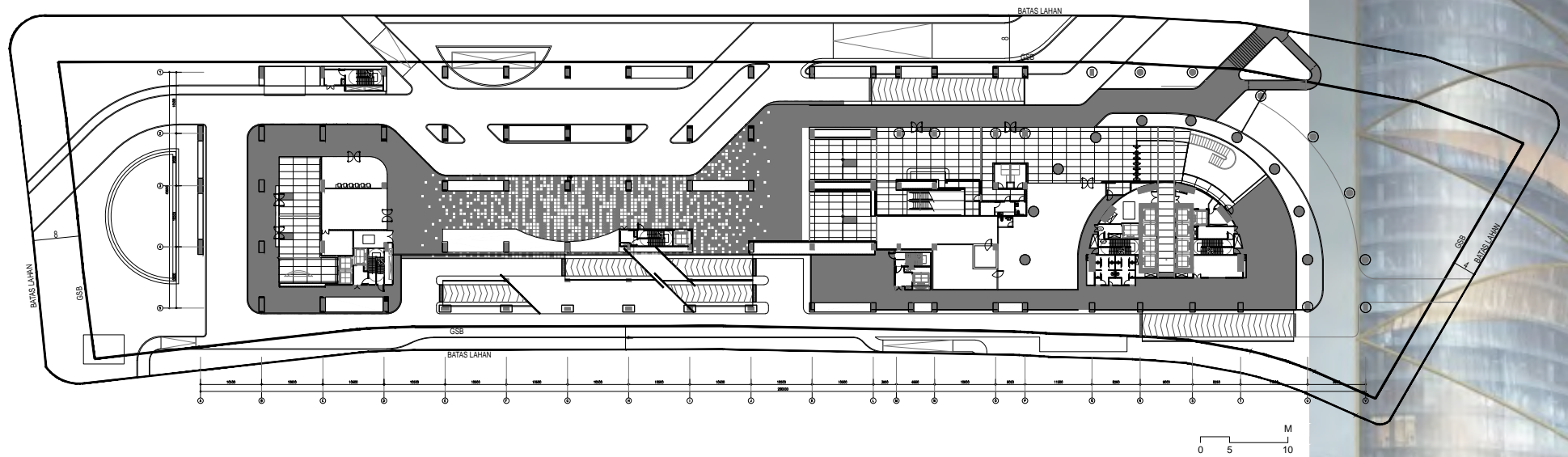


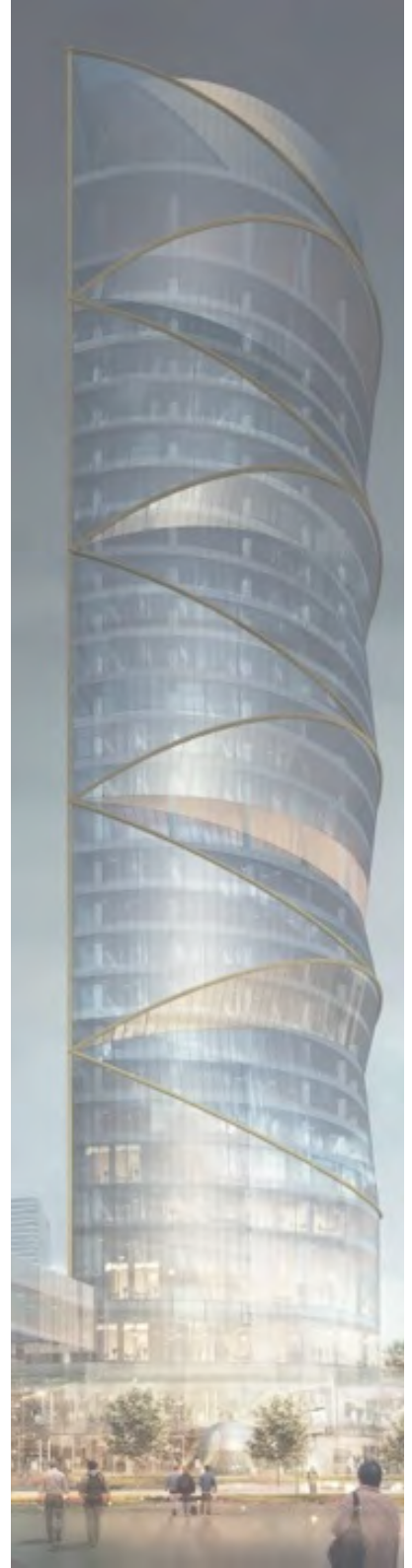
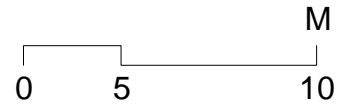
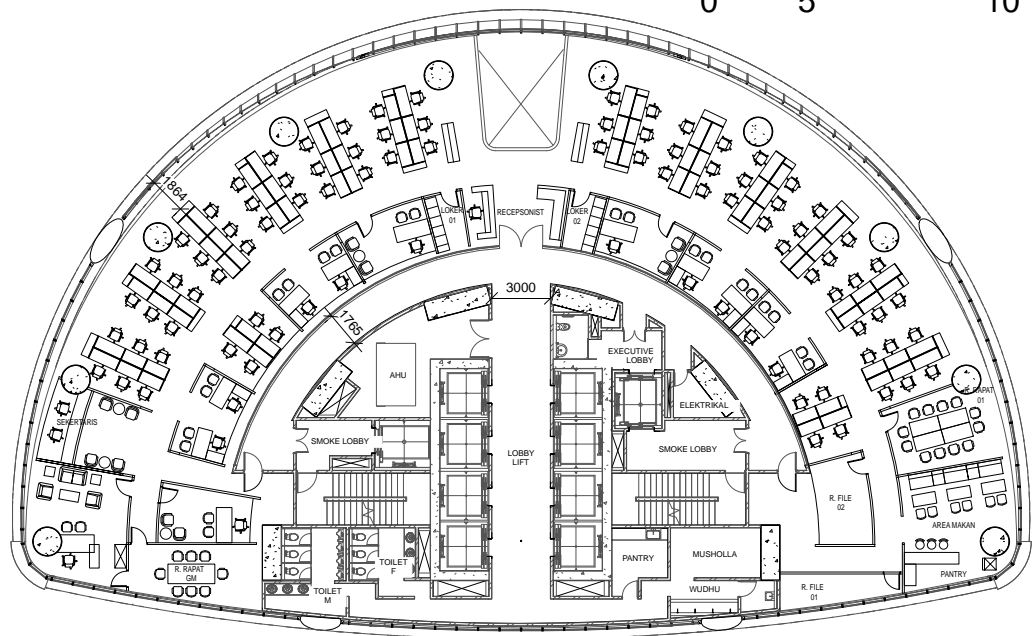
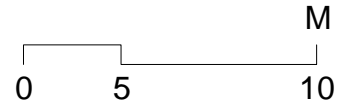
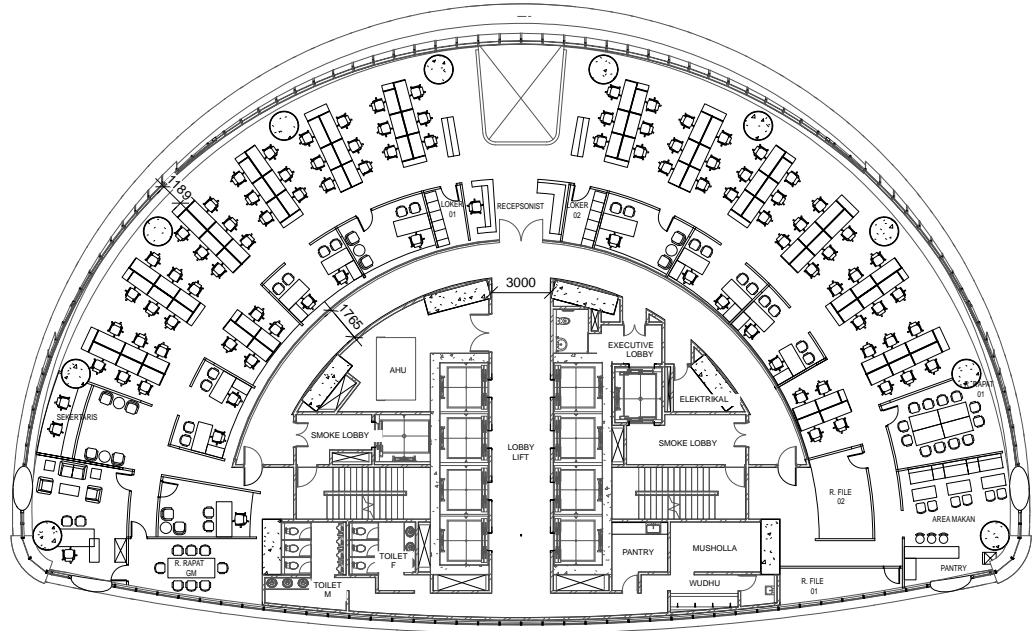
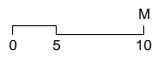
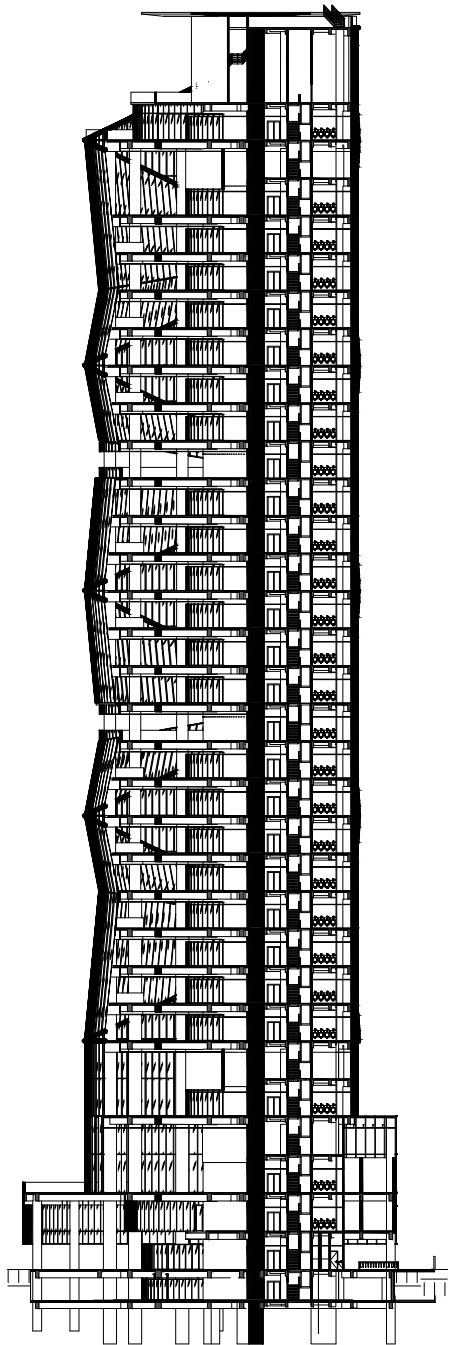
BNI 46 PEJOMPONGAN

tower

premium office

74% efficiency

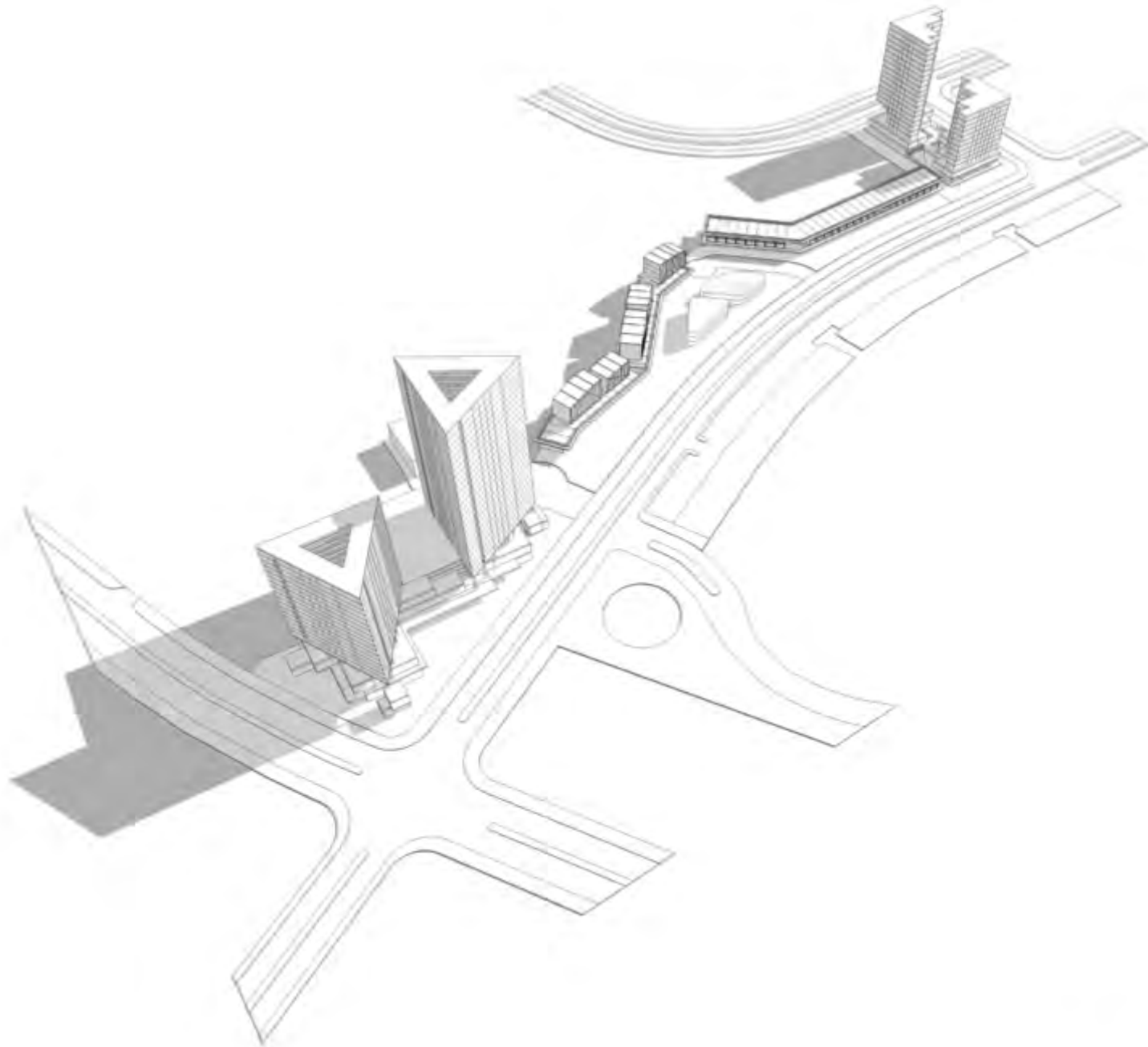






case study : d3 mix use





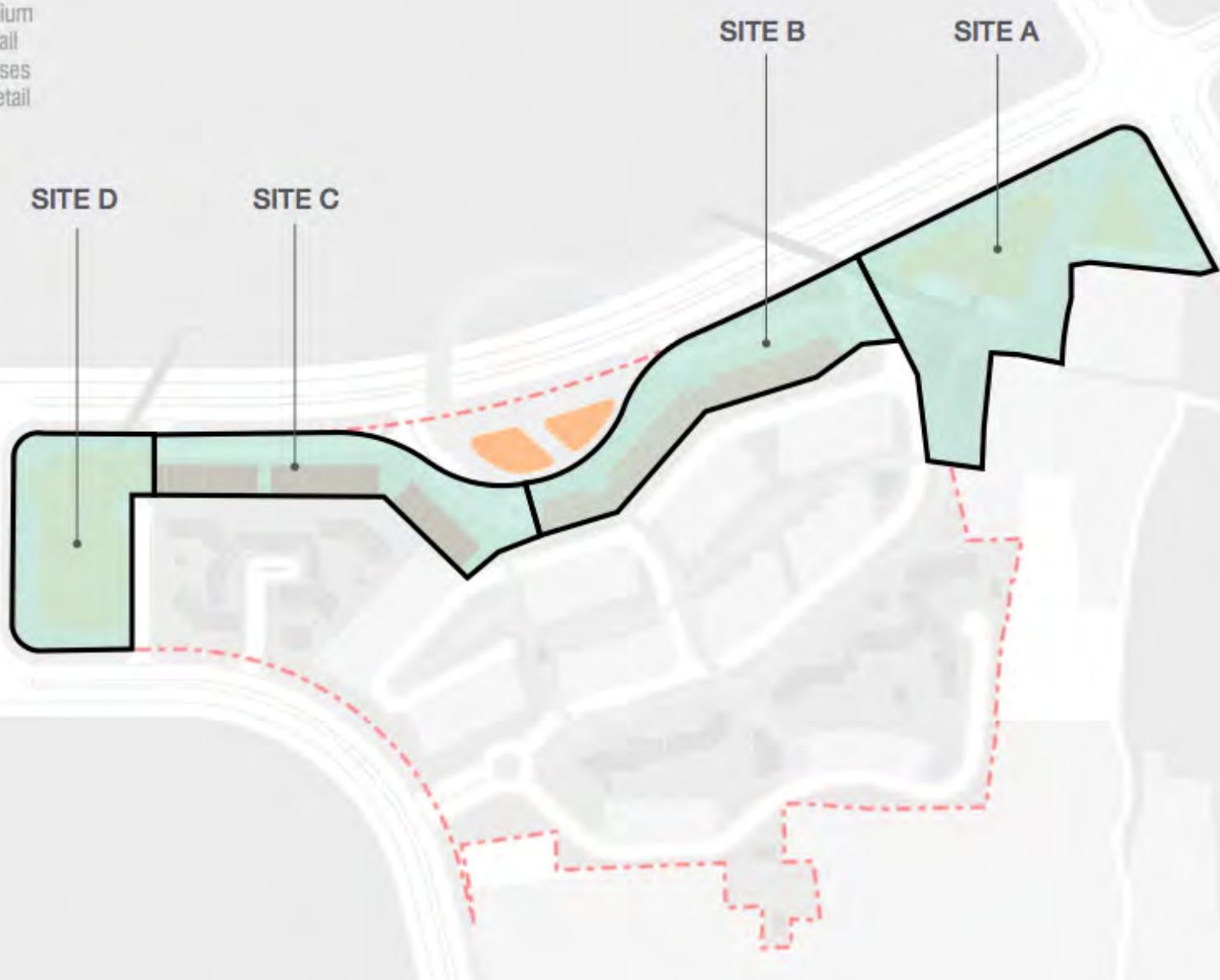
concept

ABODAY

RETAIL PROGRAM

LEGEND

- Retail Podium
- Strata Retail
- Shop Houses
- Special Retail



source :
AECOM

design area

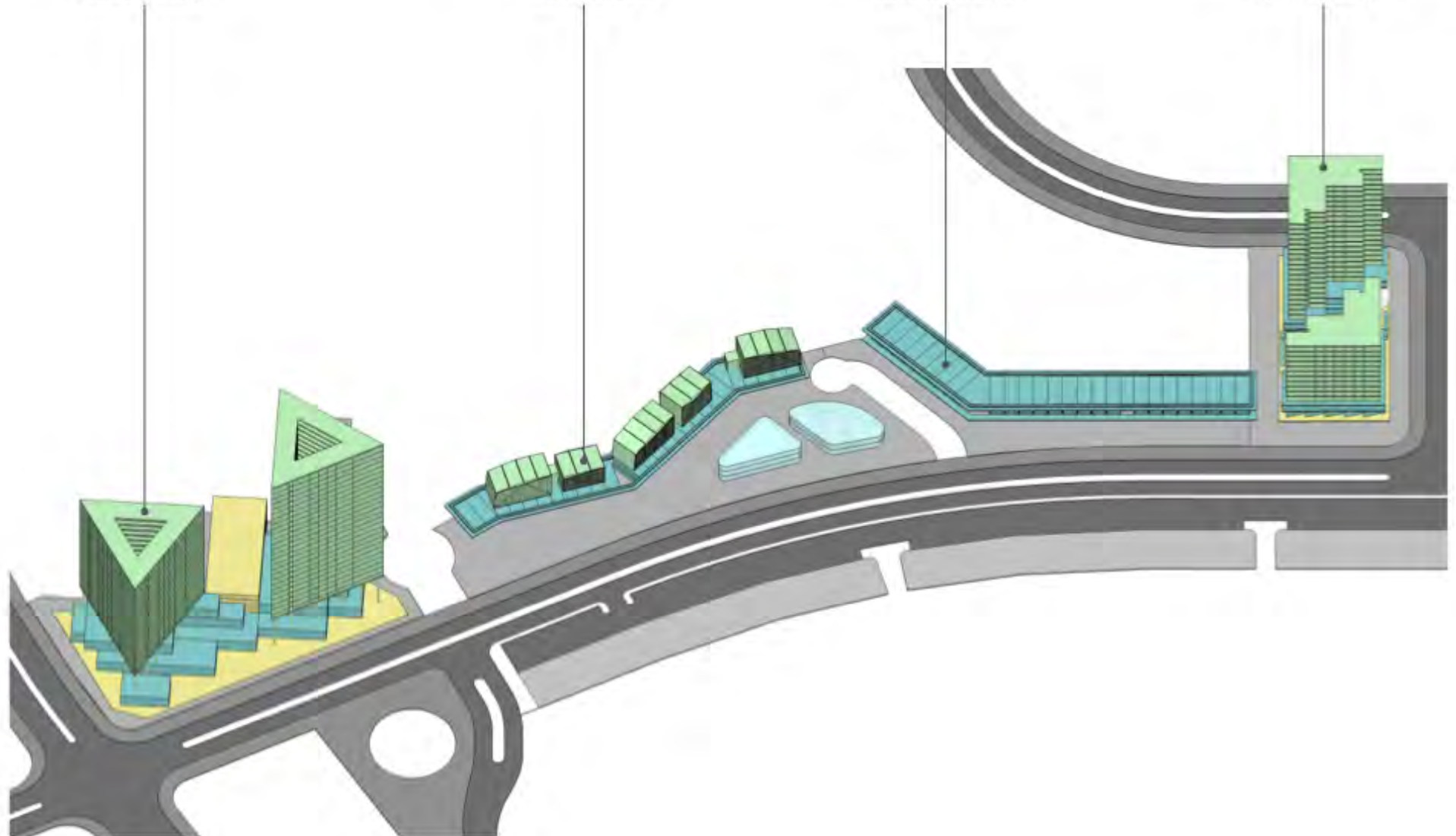
ABODAY

SITE A
APARTMENT + COMMERCIAL
GFA 55.108 SQM

SITE B
SOHO + COMMERCIAL
GFA 8.400 SQM

SITE C
COMMERCIAL
GFA 6.450 SQM

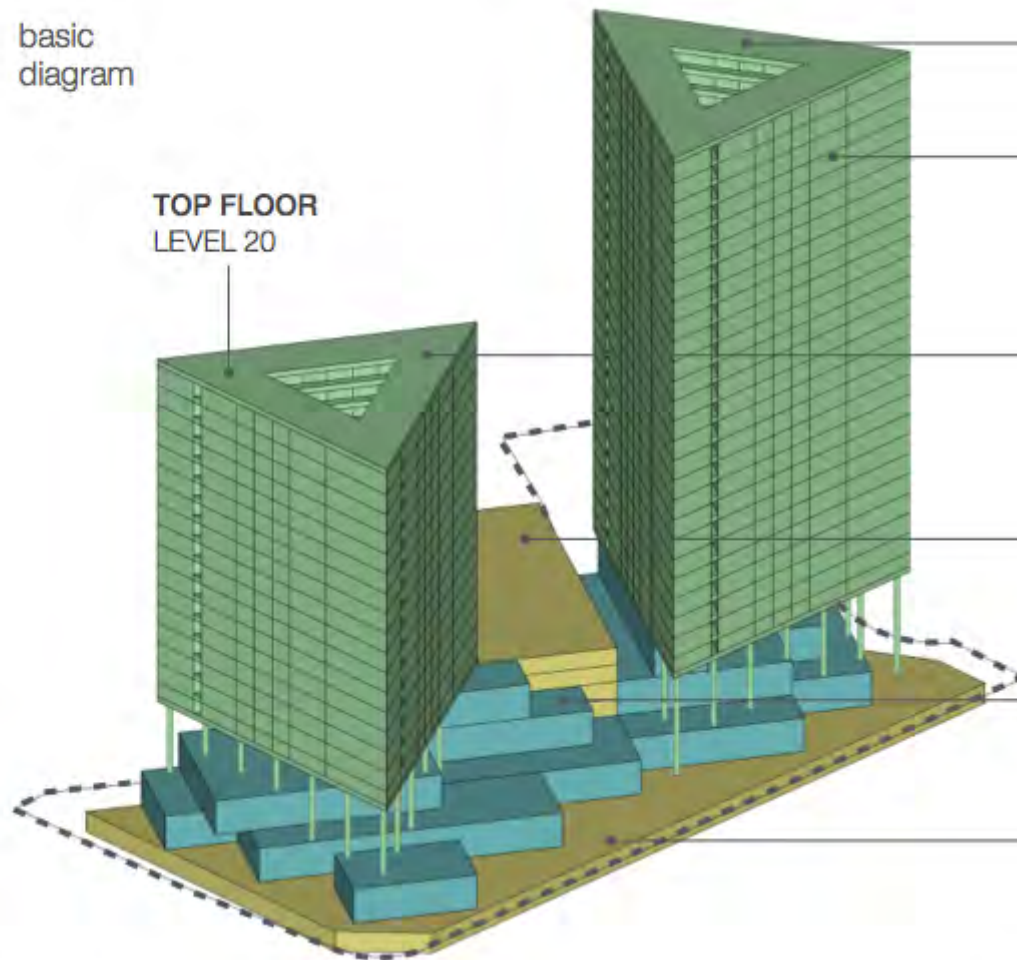
SITE D
APARTMENT + COMMERCIAL
GFA 31.900 SQM



TOTAL GFA
101.858 SQM

basic diagram

basic
diagram



TOP FLOOR
LEVEL 28

APARTMENT TOWER 1
25 FLOORS
450 UNITS
18 UNIT/FLOOR

APARTMENT TOWER 2
17 FLOORS
306 UNITS
18 UNIT/FLOOR

PARKING BUILDING
6 - 10 FLOORS
216 - 360 LOTS

COMMERCIAL AREA
2 FLOORS
3.000 SQM

BASEMENT AREA
1 - 2 FLOORS
222 - 444 LOTS

SITE AREA

GFA TOTAL (5)

TOTAL LETTABLE AREA (COMMERCIAL)

TOTAL NETT SALEABLE UNIT (18 UNIT/FLOOR)

- STUDIO (28 SQM)

- 1 BR (56 SQM)

- 2 BR (84 SQM)

PARKING NEEDS (60 % TOTAL UNIT + 1 LOT/100 SQM COMMERCIAL)

PARKING STRATEGY (KTB 80 %)

- 1 BASEMENT + 10 STOREY PARKING BUILDING

- 2 BASEMENT + 4 STOREY PARKING BUILDING

11.022 SQM

55.108 SQM

3.000 SQM

756 UNIT

37 %

45 %

18 %

560 UNIT

8818 SQM

582 LOT

588 LOT

*traced from sketch by AECOM

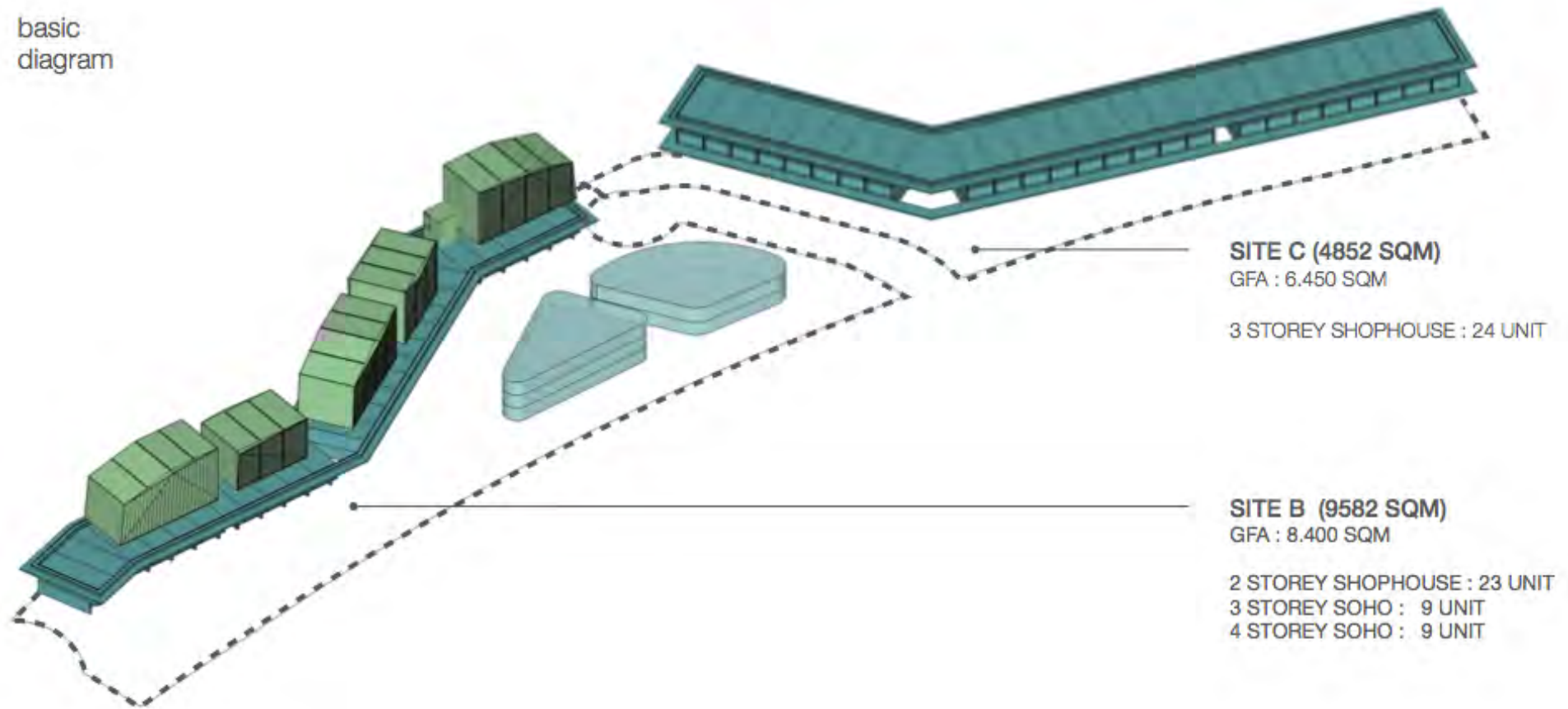
*estimation

site A



ABODAY

basic
diagram



SITE C (4852 SQM)

GFA : 6.450 SQM

3 STOREY SHOPHOUSE : 24 UNIT

SITE B (9582 SQM)

GFA : 8.400 SQM

2 STOREY SHOPHOUSE : 23 UNIT

3 STOREY SOHO : 9 UNIT

4 STOREY SOHO : 9 UNIT

SITE AREA

GFA TOTAL

TOTAL UNIT SOHO

- 3 STOREY (216 SQM)

- 4 STOREY (288 SQM)

TOTAL UNIT SHOPHOUSE

- 2 STOREY (168 SQM)

- 3 STOREY (258 SQM)

PARKING NEEDS (4 LOT OWNER + 2 LOT VISITOR/UNIT)

PARKING STRATEGY (KTB 80 %)

- 1 BASEMENT

14.434 SQM

14.850 SQM

18 UNIT

9 UNIT

9 UNIT

47 UNIT

23 UNIT

24 UNIT

255 LOT

10.104 SQM

260 LOT

*traced from sketch by AECOM

*estimation

site B.C

ABODAY



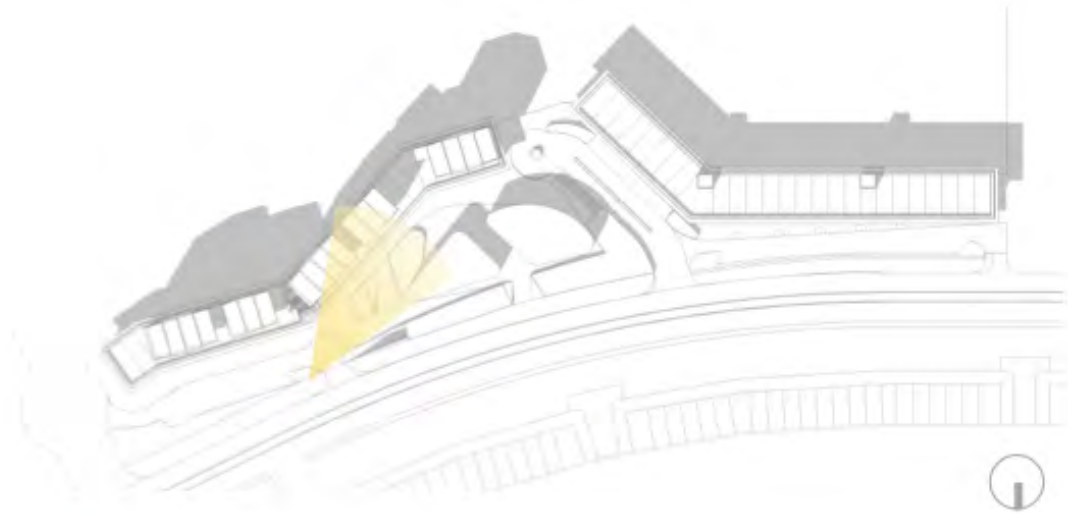
massing study
progress



site B.C

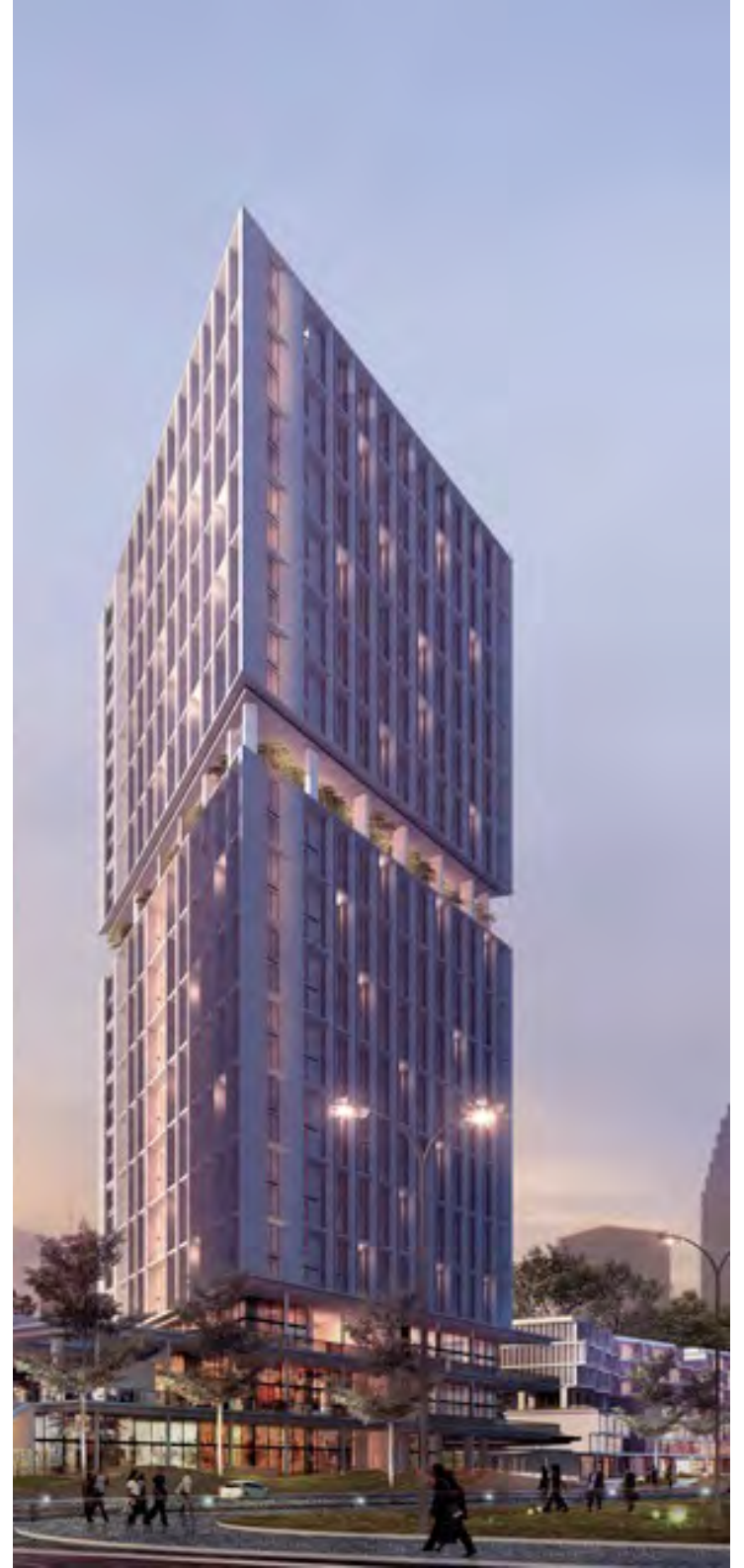
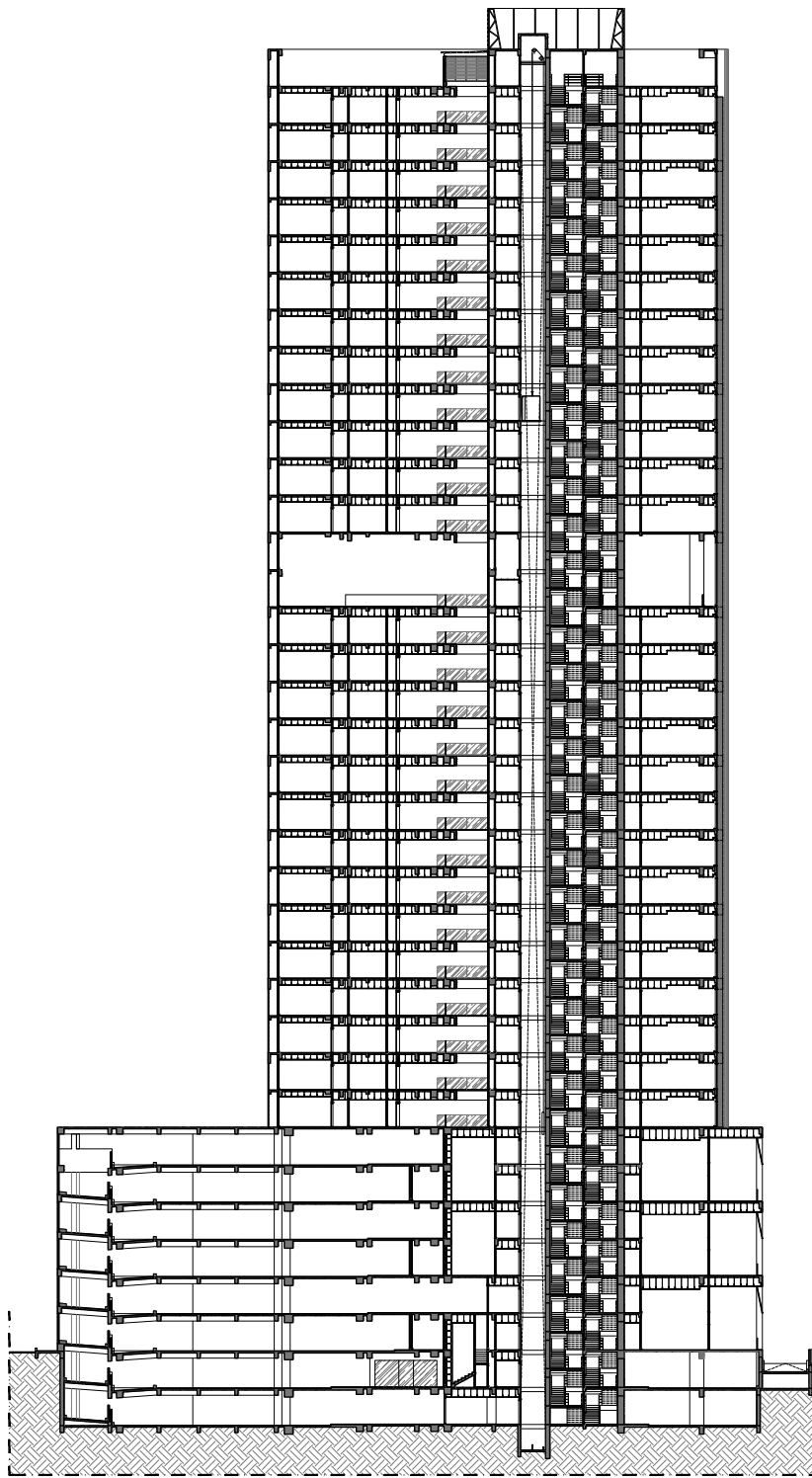
ABODAY

massing study
progress



massing study
progress







low rise public building

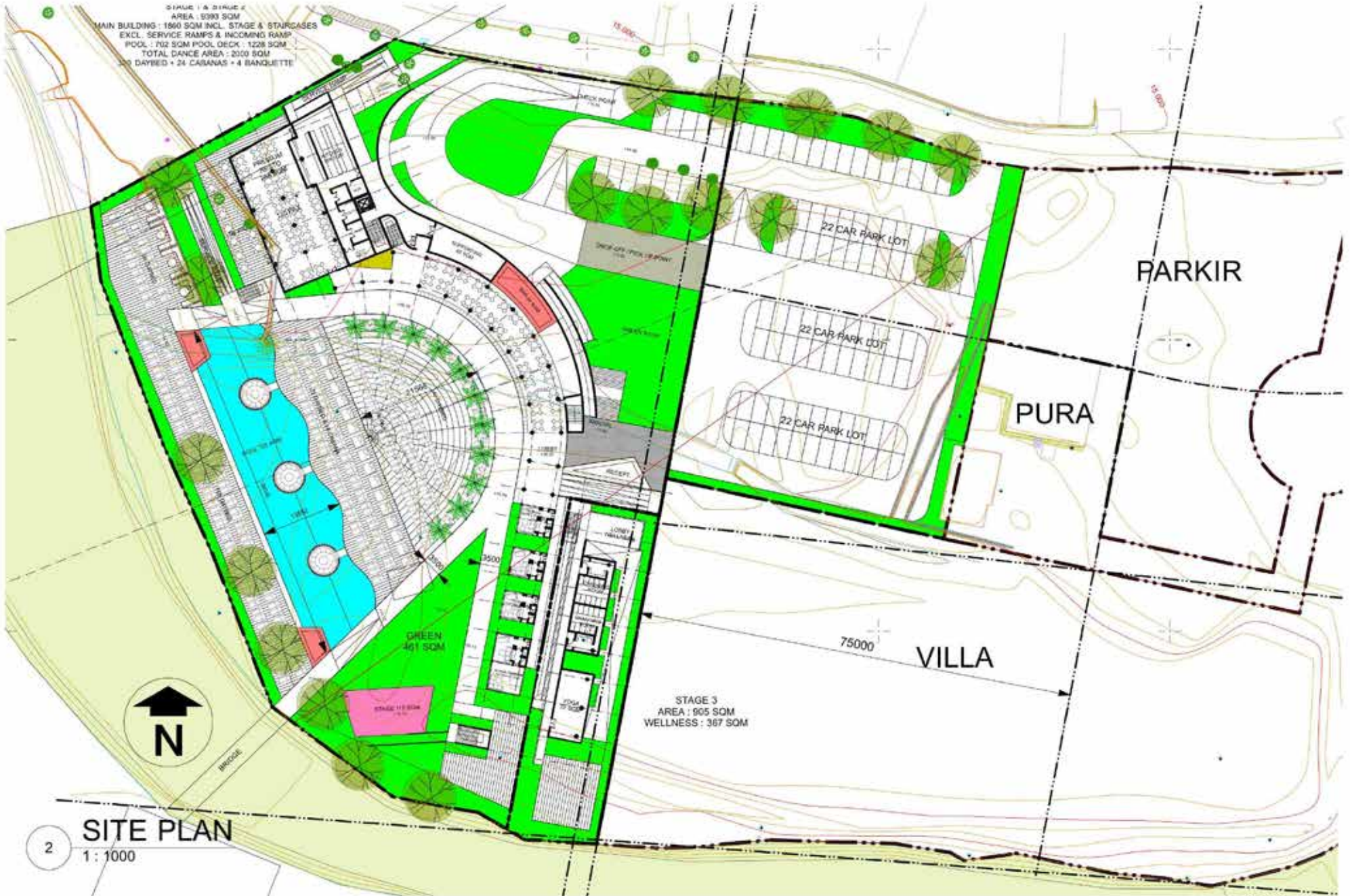


•beach club•

lowrise public space

function and experience driven
and less demand on the
technical support

STAGE 1 & STAGE 2
AREA : 5393 SQM
MAIN BUILDING : 1860 SQM INCL. STAGE & STAIRCASES
EXCL. SERVICE RAMPS & INCOMING RAMP
POOL : 702 SQM POOL DECK : 1228 SQM
TOTAL DANCE AREA : 2000 SQM
20 DAYBED + 24 CABANAS + 4 BANQUETTE



2 SITE PLAN
1 : 1000



• beach club canggu •

lowrise public space

the building required to
response more to the site and
local context





lowrise public space

landscape approach and
strategic zoning lead to better
experience

- BLOCK PLAN -





- club house eminent BSD •

CLUBHOUSE THE EMINENT

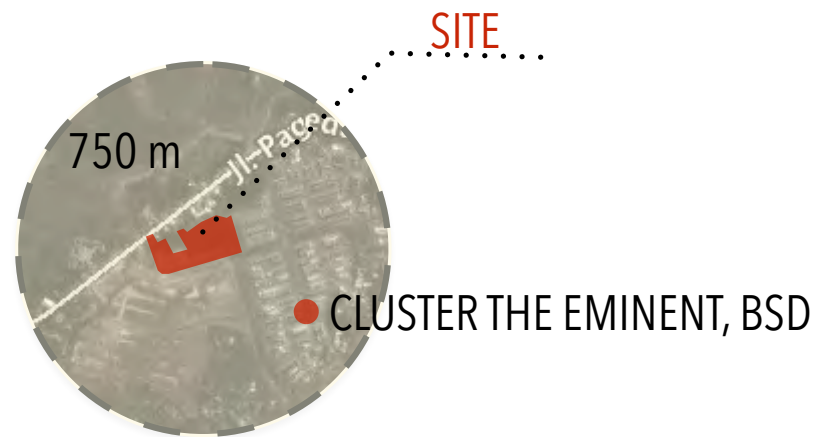
2016/09/06

ABODAY

- PROLOGUE -

- SITE ANALYSIS -

RADIUS 750 M



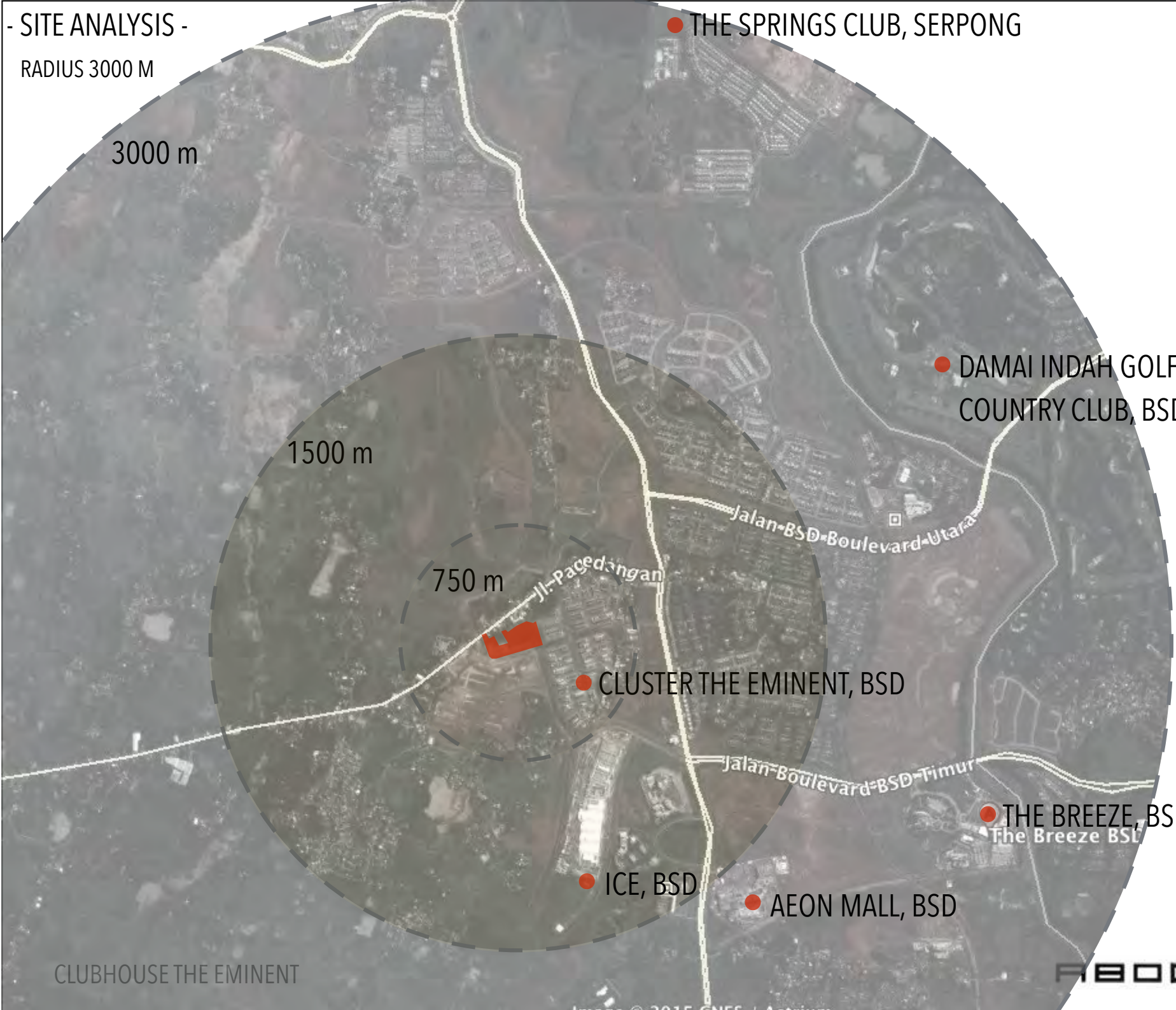
- SITE ANALYSIS -

RADIUS 1500 M



- SITE ANALYSIS -

RADIUS 3000 M



● THE SPRINGS CLUB, SERPONG

● DAMAI INDAH GOLF & COUNTRY CLUB, BSD

● CLUSTER THE EMINENT, BSD

● THE BREEZE, BSD
The Breeze BSL

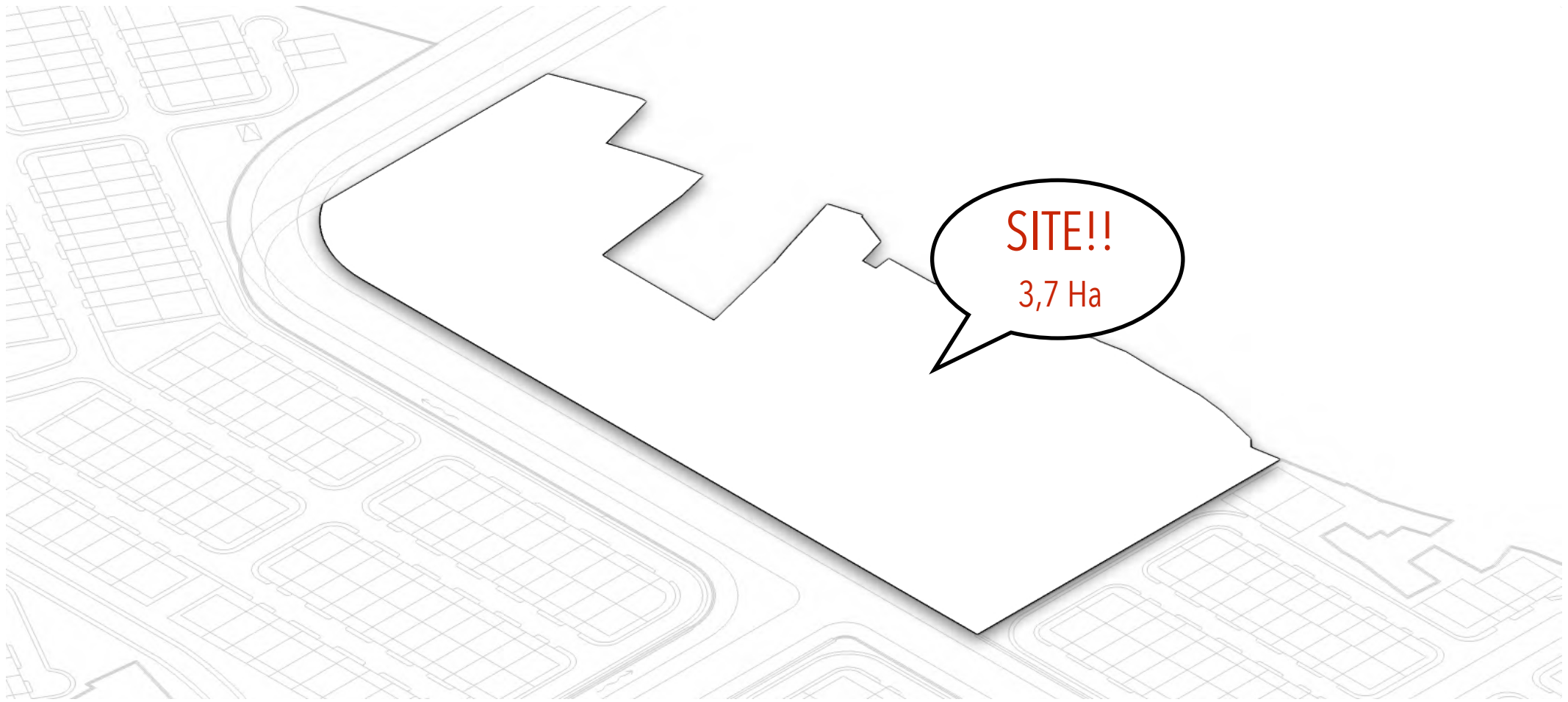
● ICE, BSD

● AEON MALL, BSD

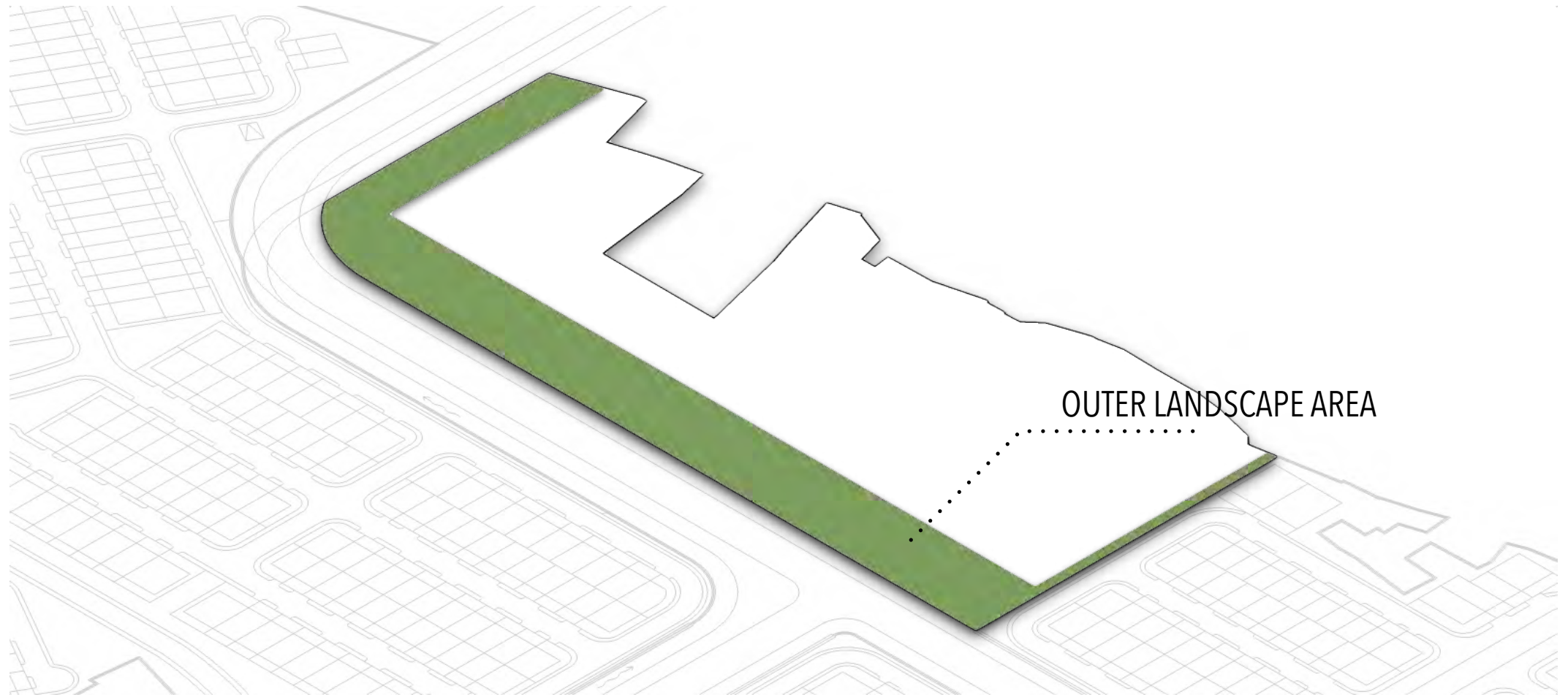
CLUBHOUSE THE EMINENT

RABODAY

- MASSING -

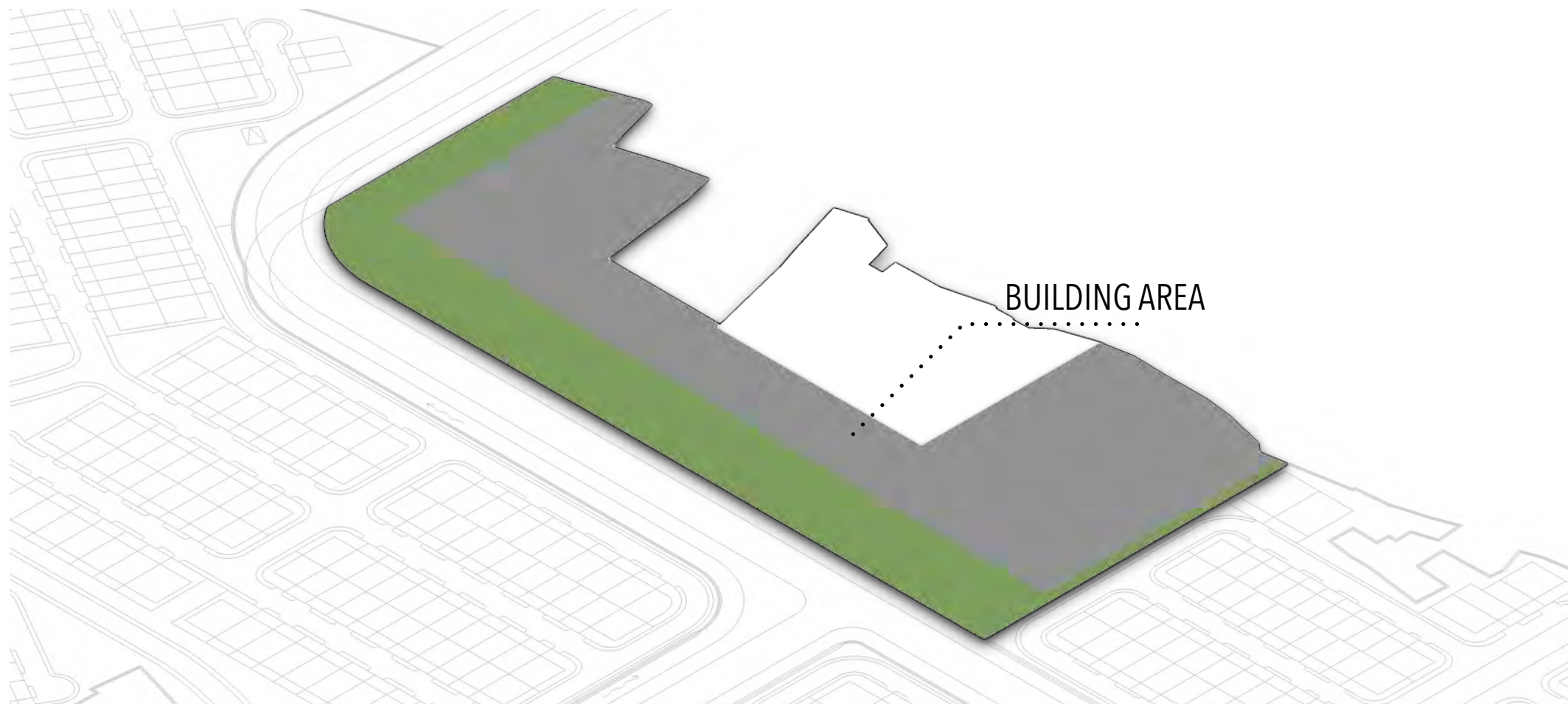


- ZONING - LANDSCAPE AREA



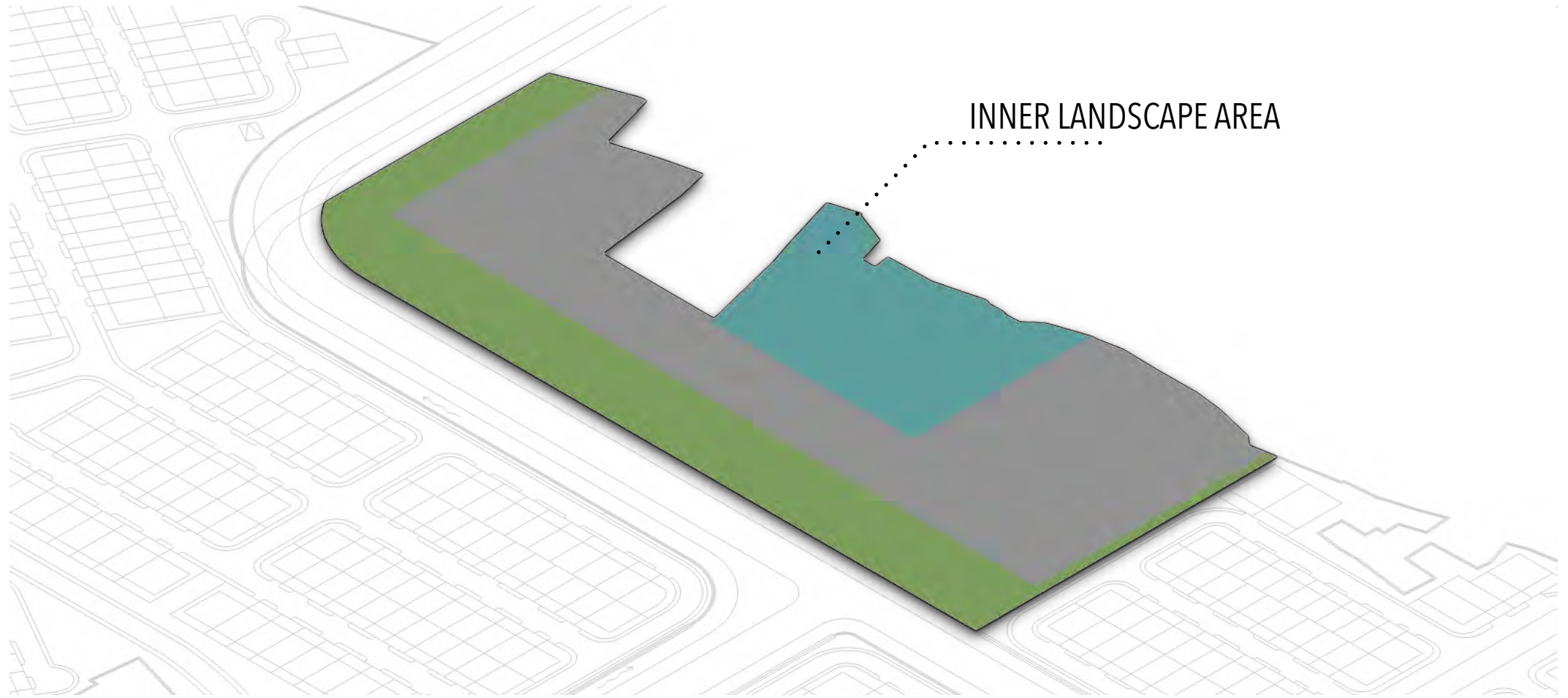
OUTER LANDSCAPE AREA

- ZONING - BUILDING AREA



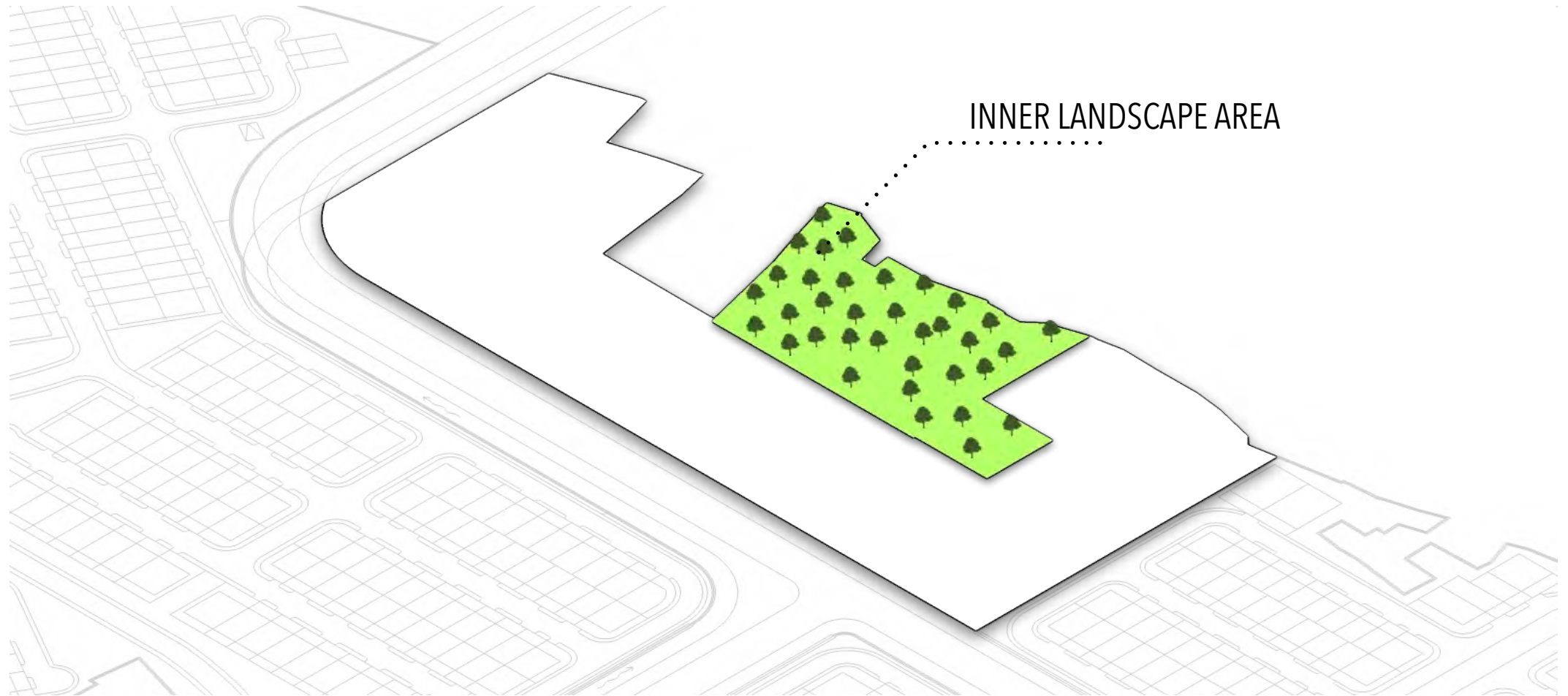
BUILDING AREA

- ZONING - INNER LANDSCAPE AREA



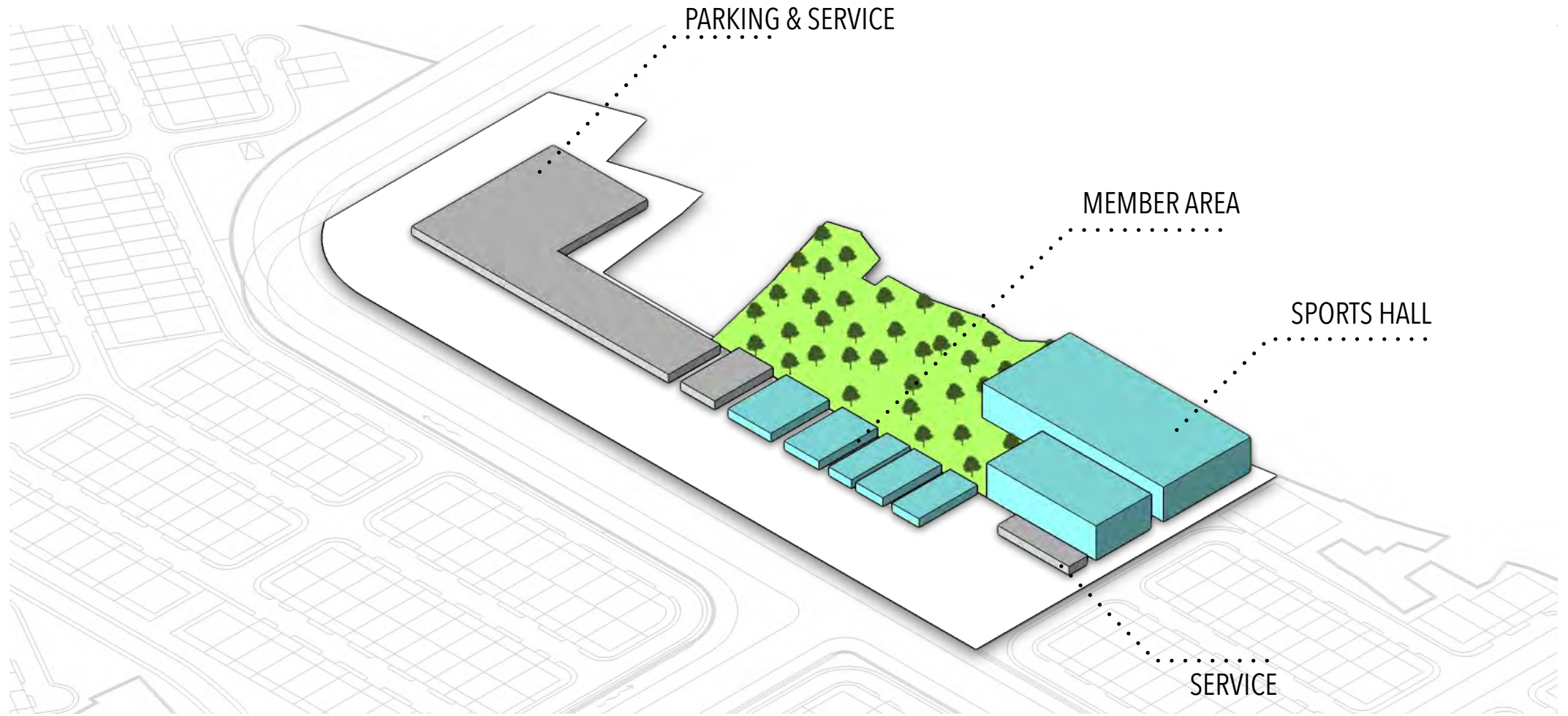
INNER LANDSCAPE AREA

- ZONING - INNER LANDSCAPE AREA (±0.00)

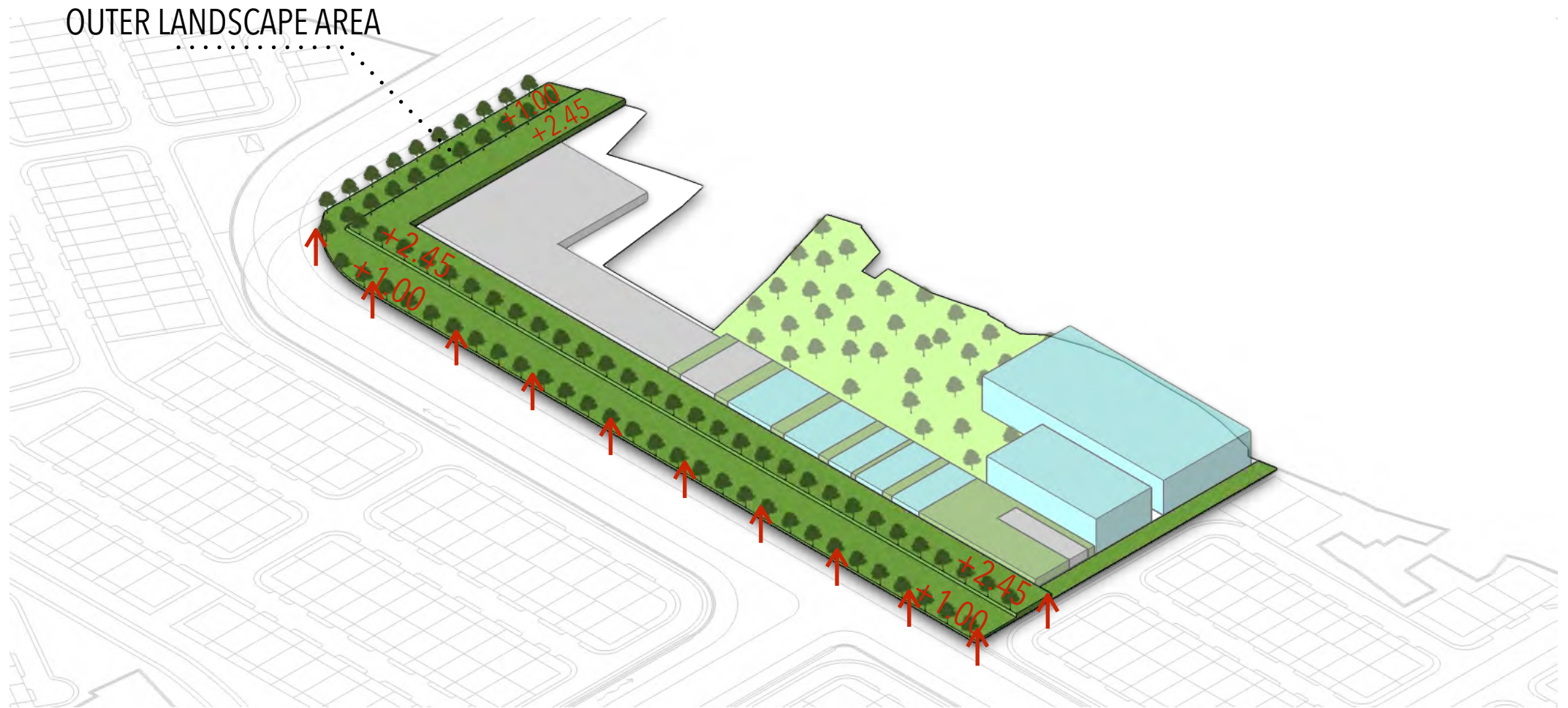


INNER LANDSCAPE AREA

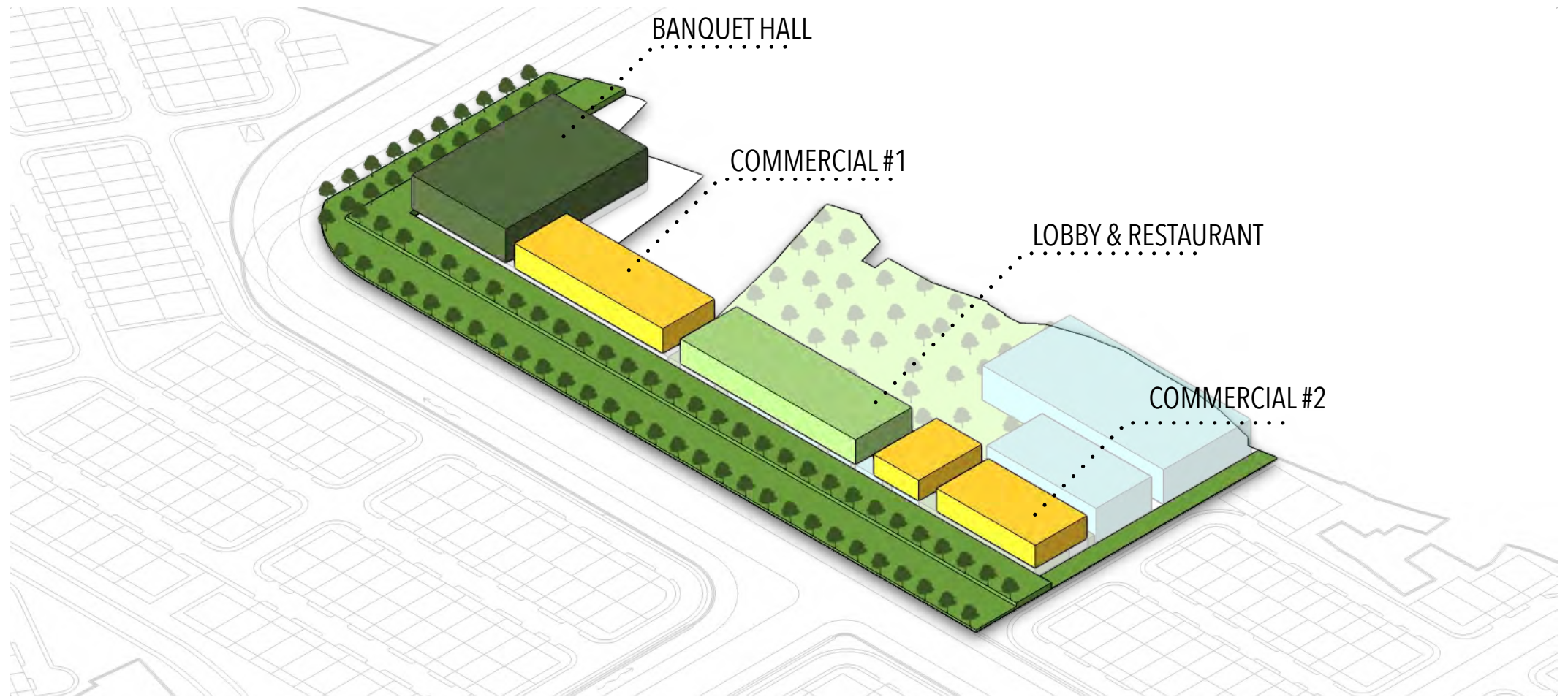
- ZONING - LOWER GROUND FLOOR (± 0.00)



- ZONING - OUTER LANDSCAPE AREA (+1.00 & +2.45)



- ZONING - UPPER GROUND FLOOR (+3.50)



- PLAN -

- BLOCK PLAN -



- LOWER GROUND FLOOR -



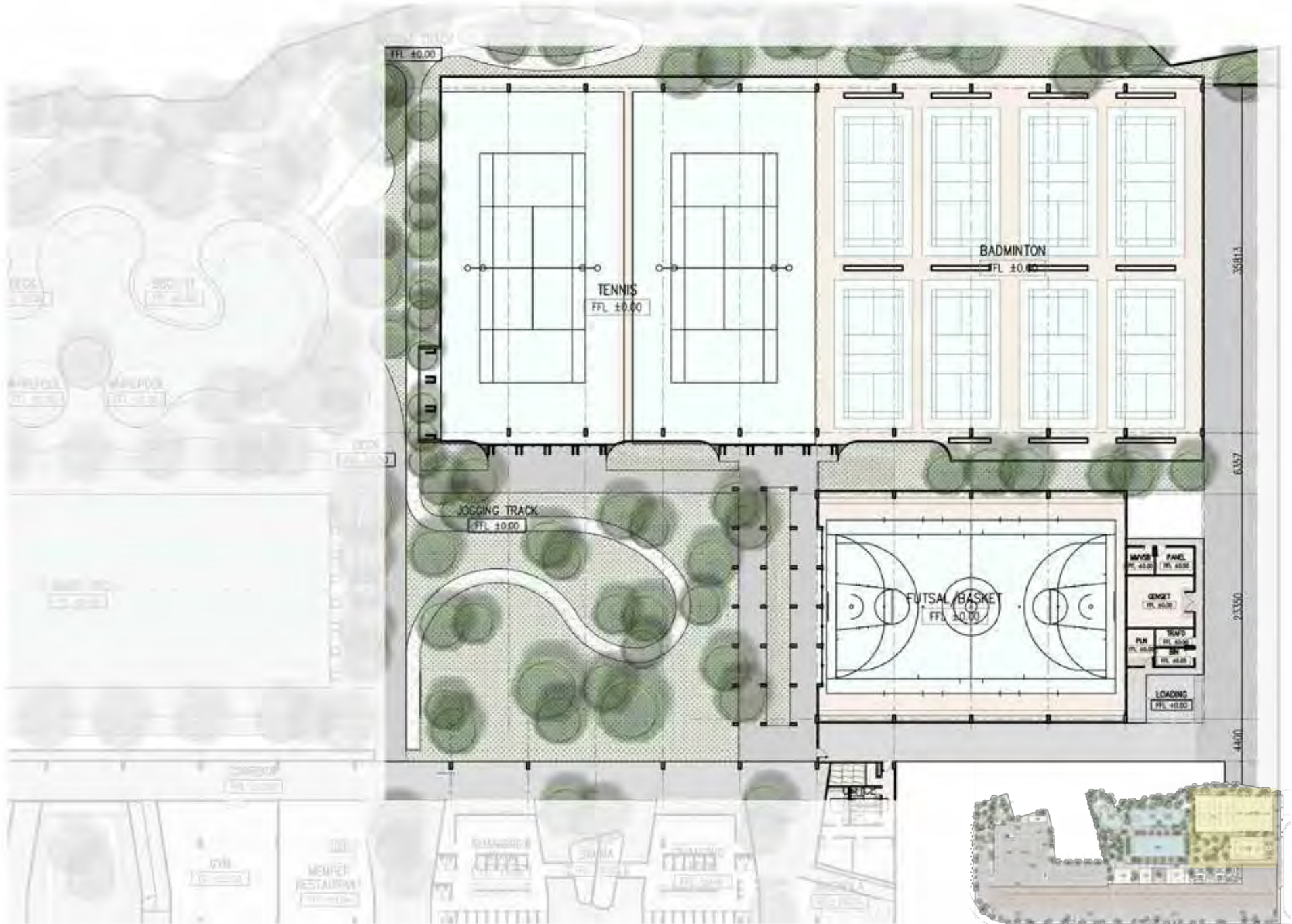
- LOWER GROUND FLOOR - PARKING AREA & SERVICE



- LOWER GROUND FLOOR - MEMBER FACILITY



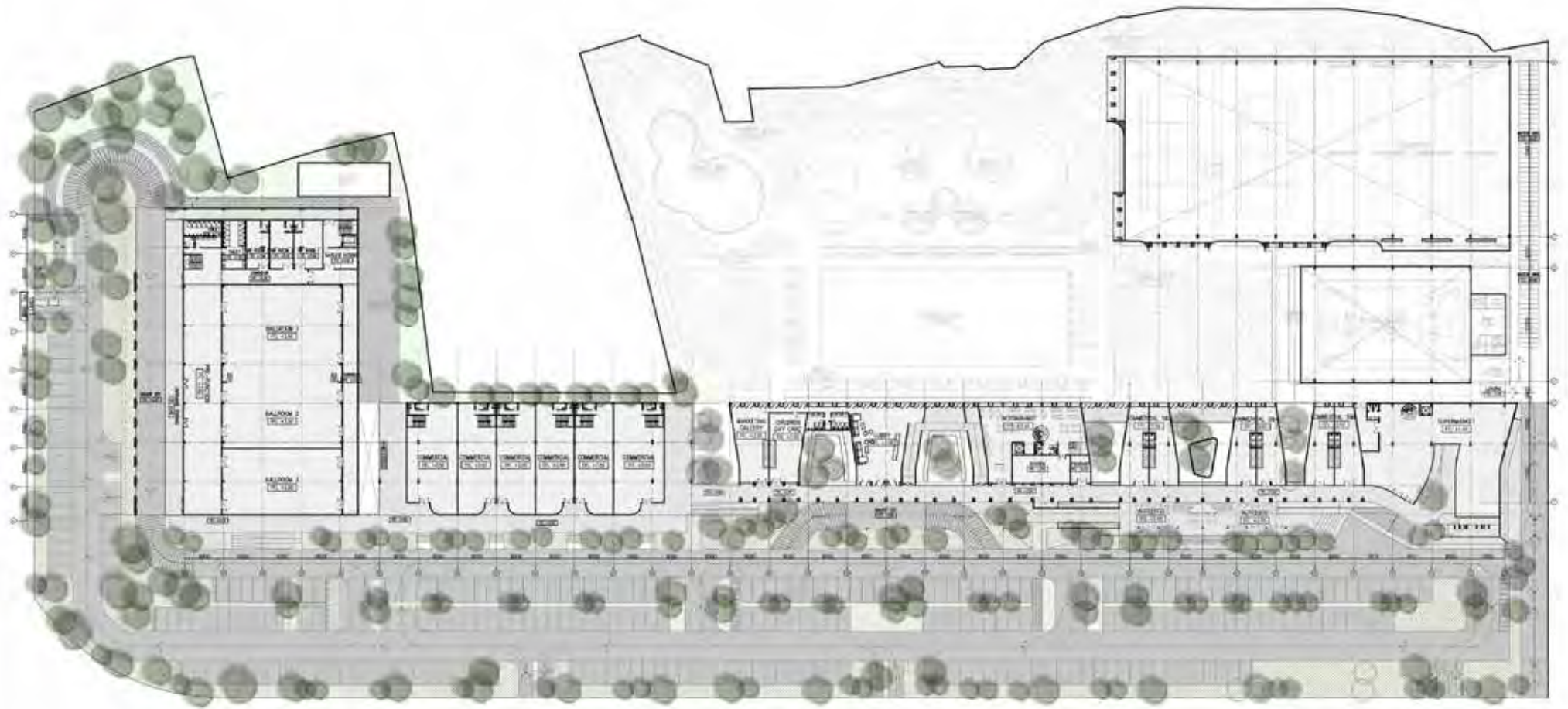
- LOWER GROUND FLOOR - SPORTS HALL AREA



- LOWER GROUND FLOOR - INNER LANDSCAPE AREA

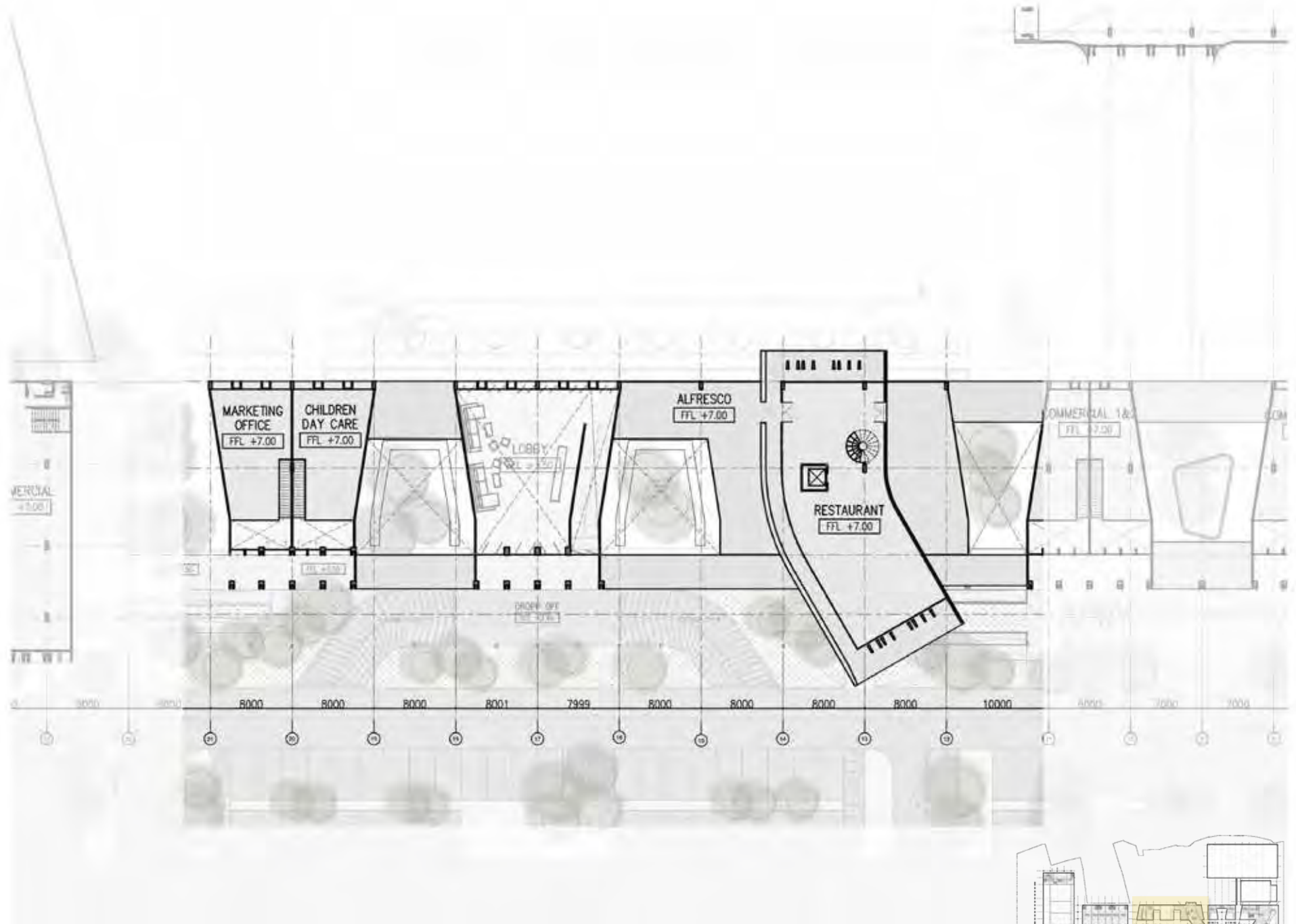


- UPPER GROUND FLOOR -

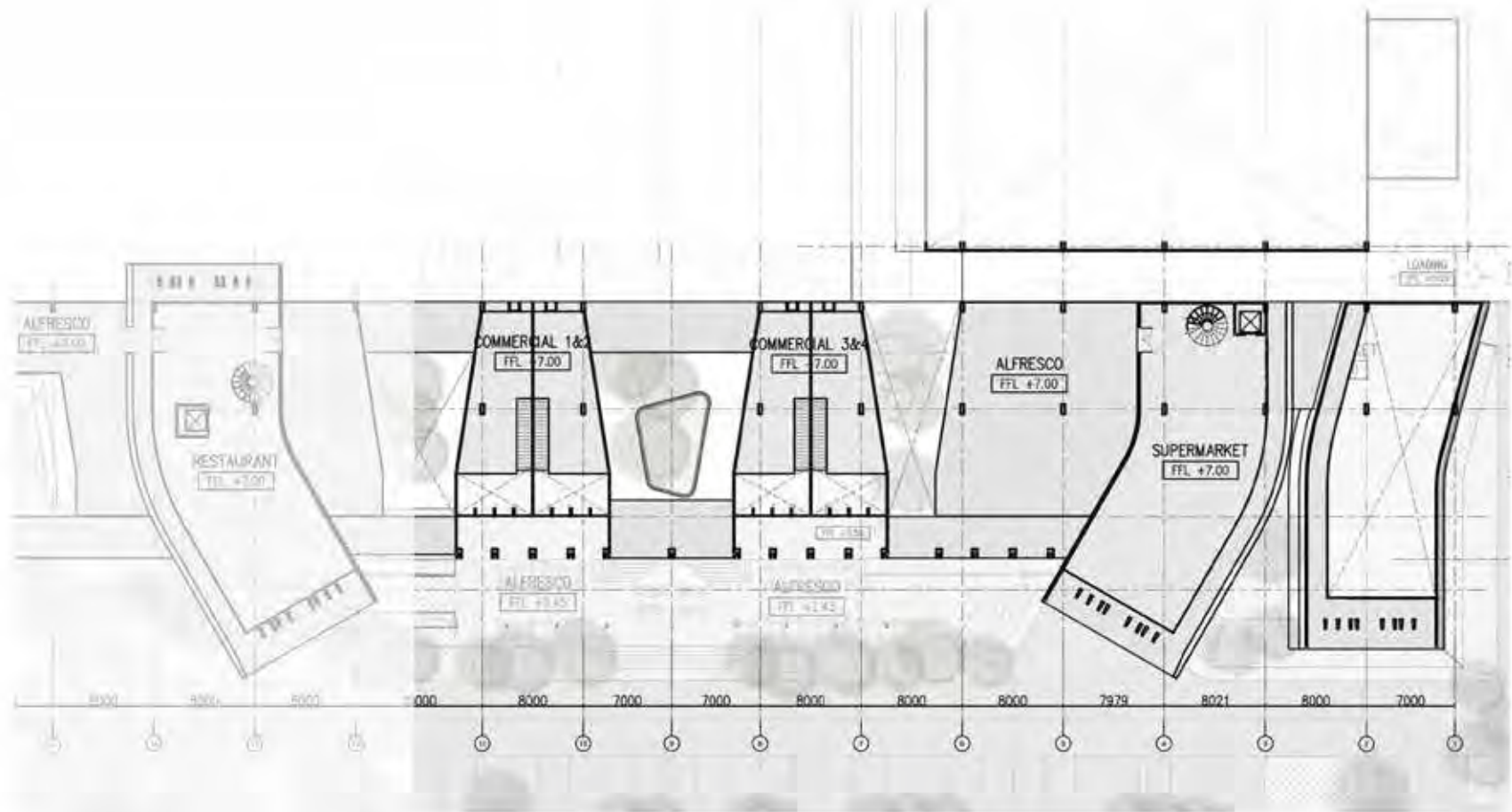


02 GROUND FLOOR

- 2ND FLOOR - CHILDREN DAY CARE, MARKETING GALLERY, LOBBY, RESTAURANT



- 2ND FLOOR - COMMERCIAL AREA F&B



- EXTERIOR VIEW, FRONT AREA -



CLUBHOUSE THE EMINENT



ABODAY

- EXTERIOR VIEW, POOL AREA -



CLUBHOUSE THE EMINENT



ABODAY

- EXTERIOR VIEW, SUPERMARKET -



CLUBHOUSE THE EMINENT

ABODAY

- EXTERIOR VIEW, ALFRESCO AREA -



- EXTERIOR VIEW, DROP OFF & RESTAURANT AREA -



The image shows a detailed architectural elevation of a building facade. The facade is composed of a grid of rectangular window units. Each unit features a dark, horizontal-slatted screen. A prominent vertical element is a central garden or atrium space, enclosed by a brick wall, containing two green trees. To the left, a section of the building has large glass windows. To the right, another section features a vertical wooden slat screen. The overall design is modern and emphasizes natural light and greenery.

Design Report

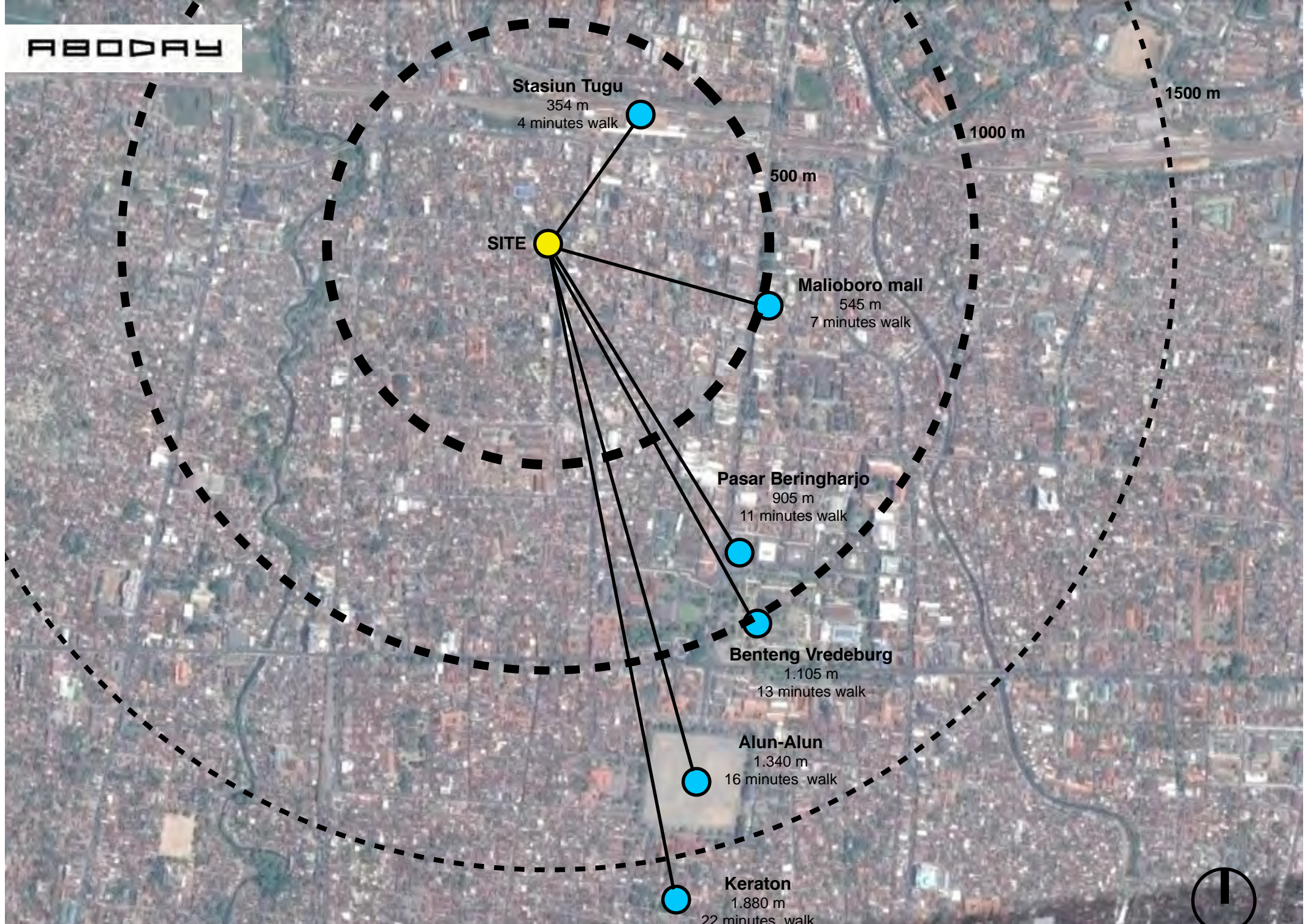
03 03 2015

Ndalem Malioboro

ABODAS

ABODAY

FACTS



Location Analysis





Area 6091 sqm
BCR 80%
FAR 48 m
Set Back 4 m

Program

Condotel

250 unit
@ 32 sqm
Area 9.600 sqm

Apartment

1 Bedroom
150 unit
@ 48 sqm
2 Bedroom
75 unit
@ 80 sqm
Area 15.840 sqm

Commercial

Area 5000 sqm

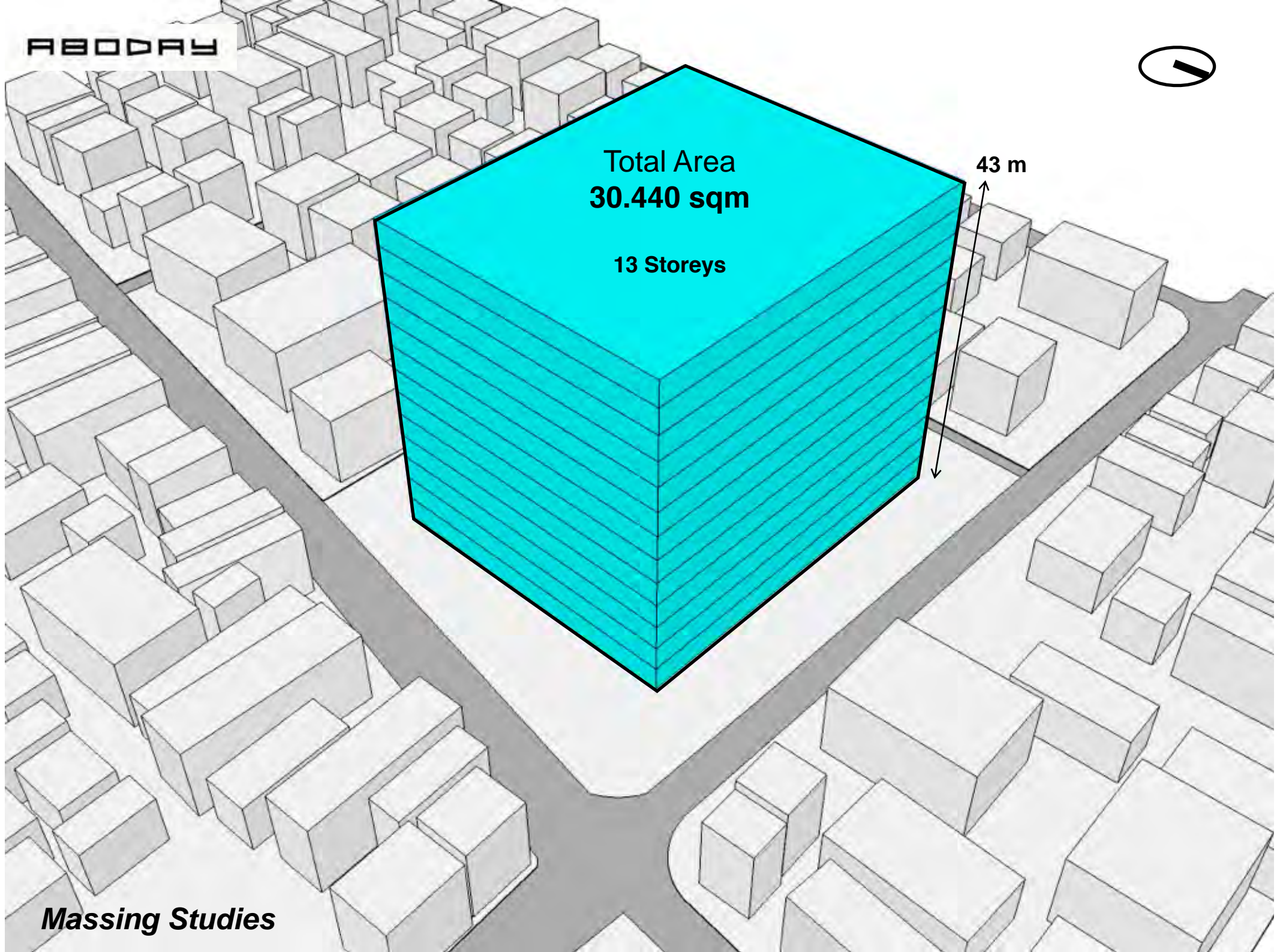
Parking

350 cars
Area 8750 sqm

Total Area
30.440 sqm
+
8.750 sqm

ABODAY

MACRO
CONCEPT



Total Area
30.440 sqm

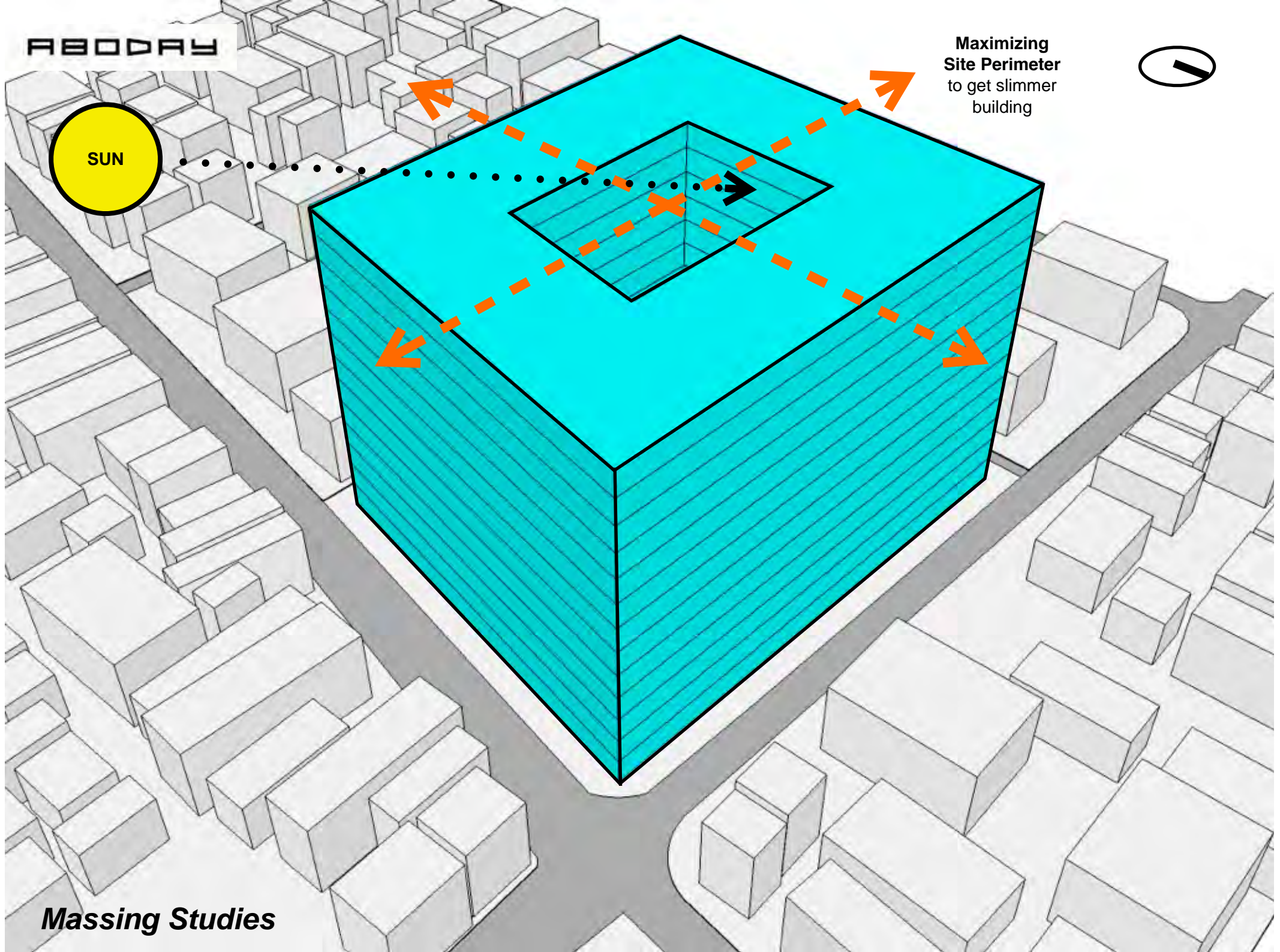
13 Storeys

43 m

ABODAY



Maximizing Site Perimeter to get slimmer building

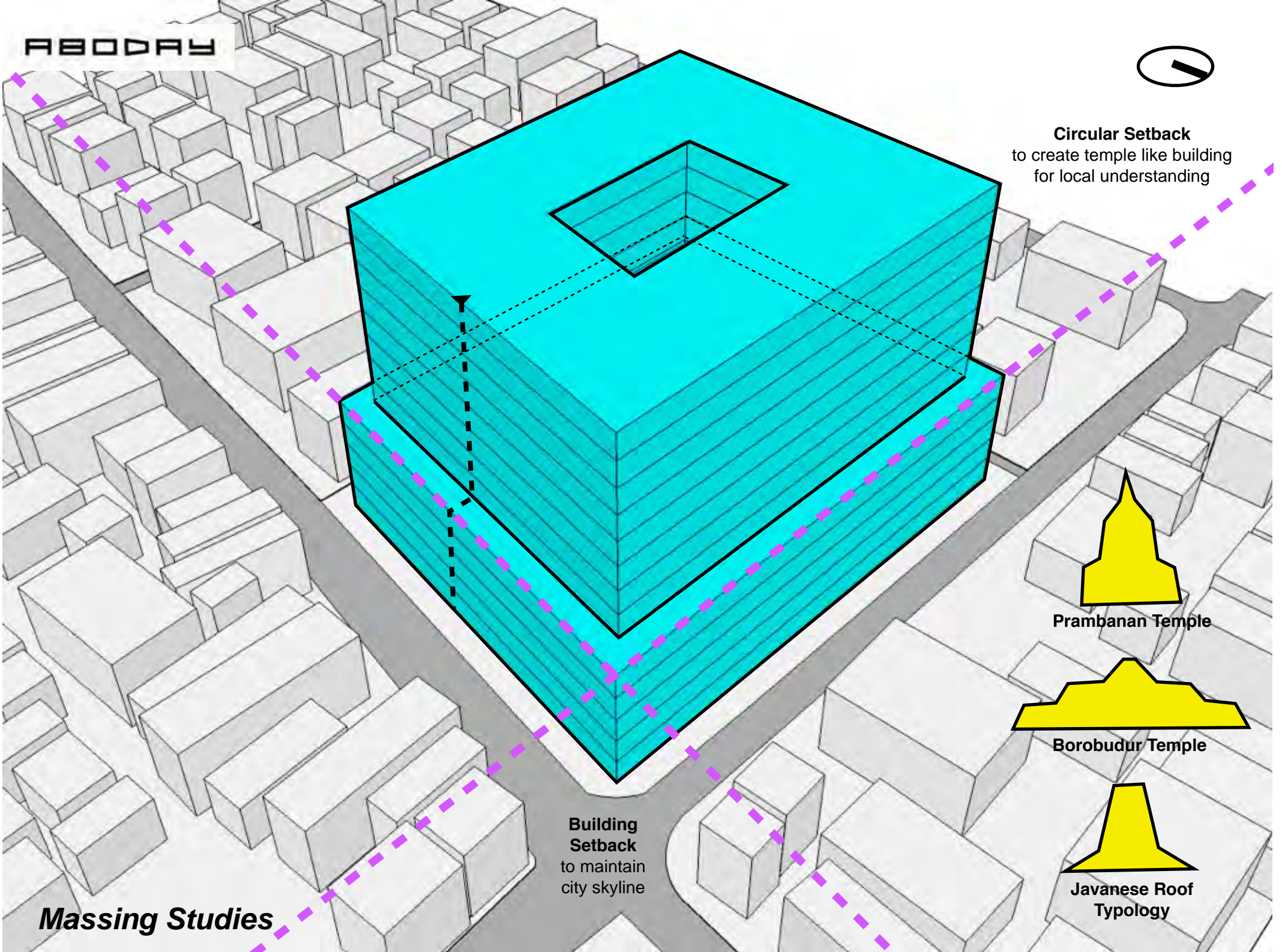


Massing Studies

ABODAY



Circular Setback
to create temple like building
for local understanding



Building Setback
to maintain
city skyline

Massing Studies

Prambanan Temple

Borobudur Temple

**Javanese Roof
Typology**



Prambanan Temple



Javanese Roof



Borobudur Temple

ABODAY

360 City View
for Hotel & Apartment

Slimmer
= Higher

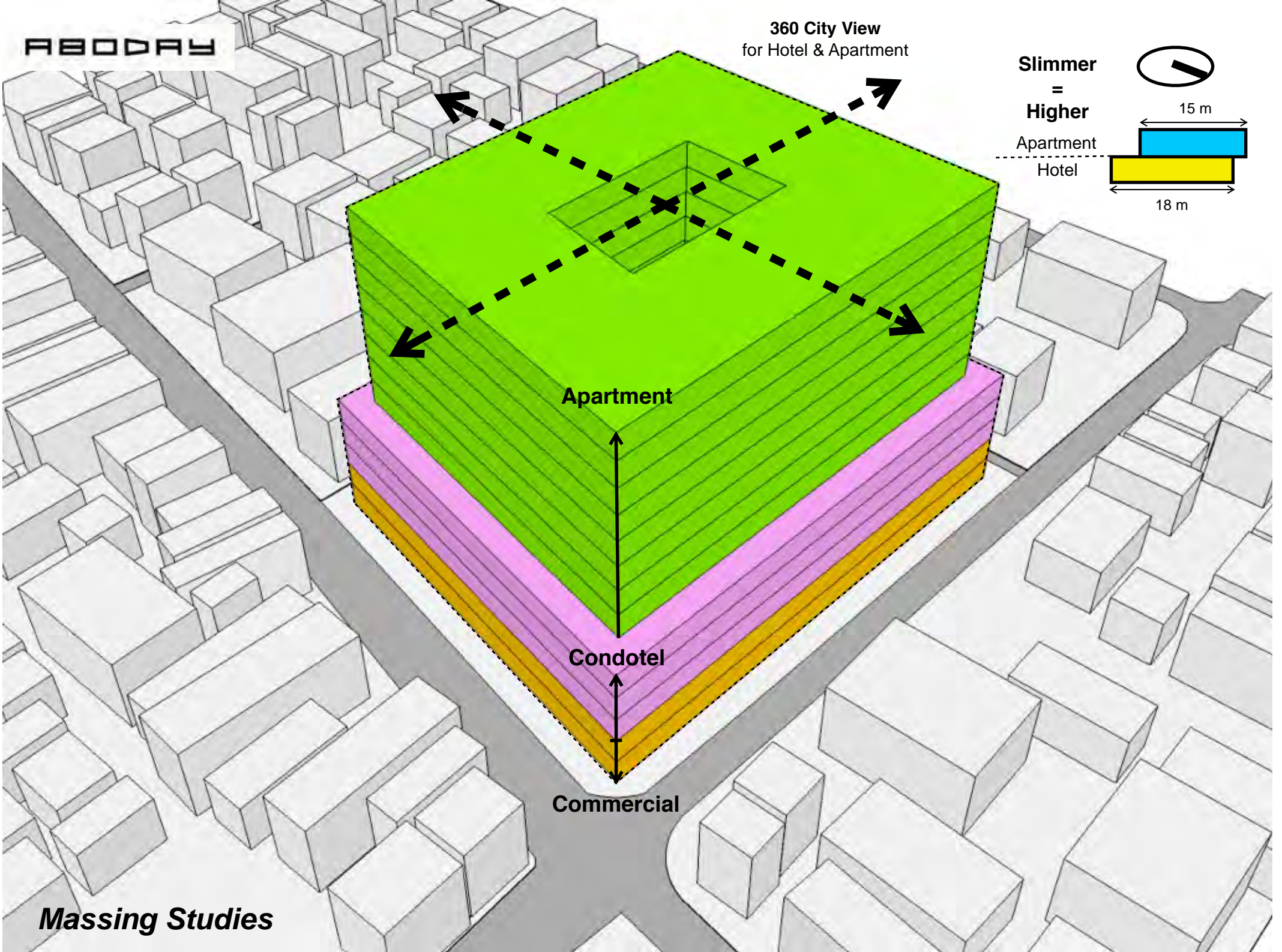
Apartment
Hotel



15 m



18 m



Apartment

Condotel

Commercial

Massing Studies

ABODAY

CITY
SKYLINE

SUNSET

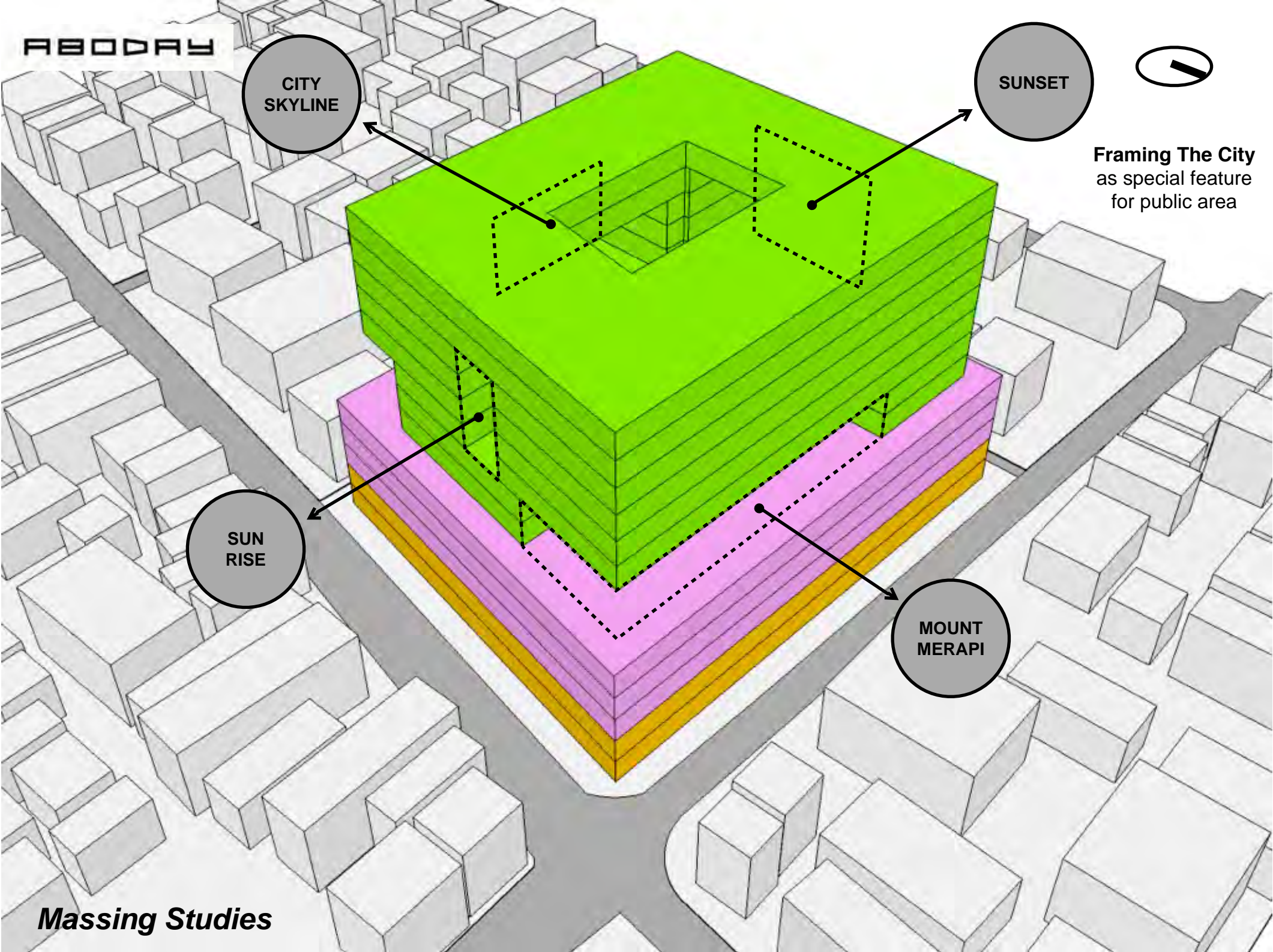


Framing The City
as special feature
for public area

SUN
RISE

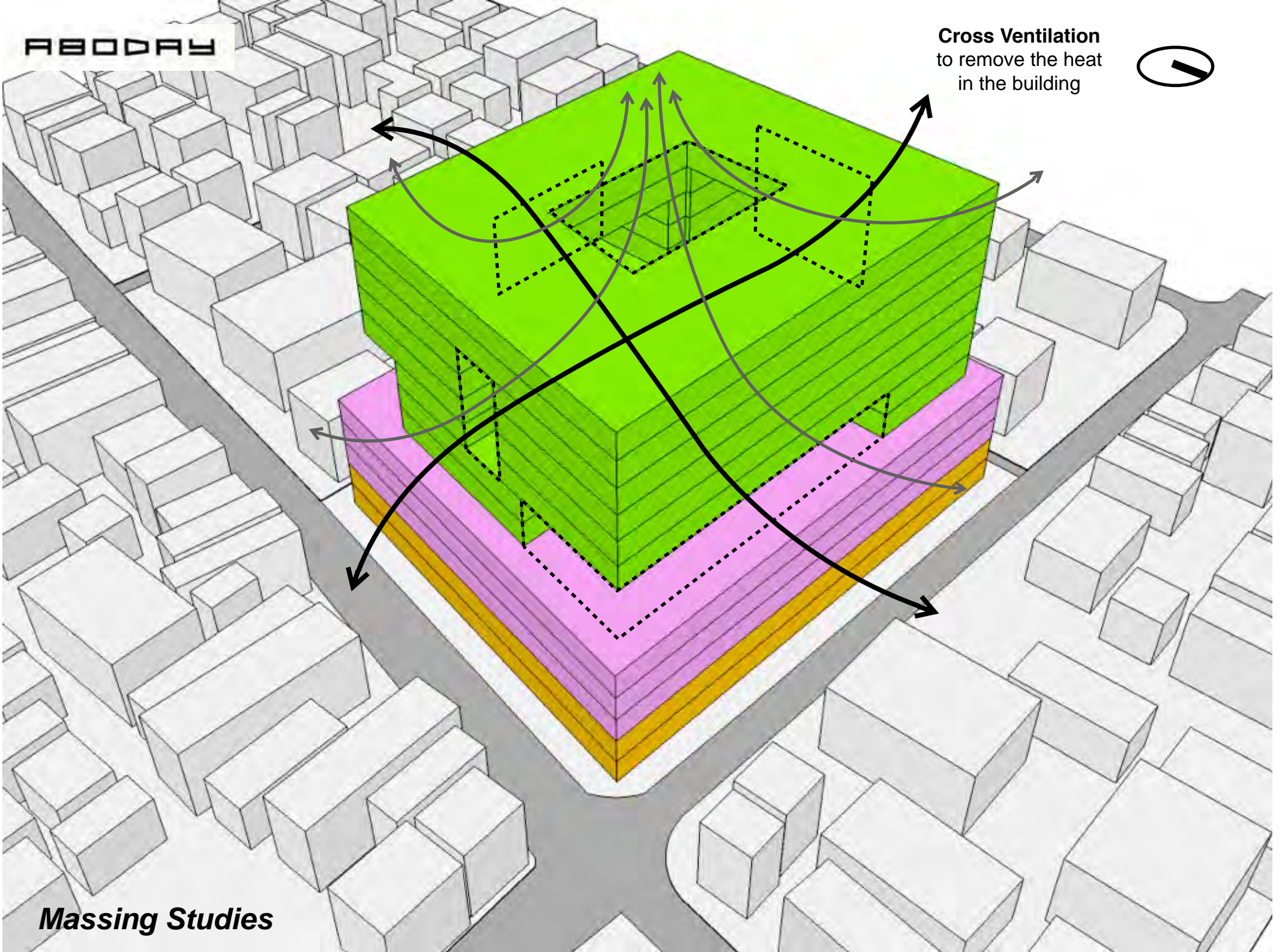
MOUNT
MERAPI

Massing Studies



ABODAY

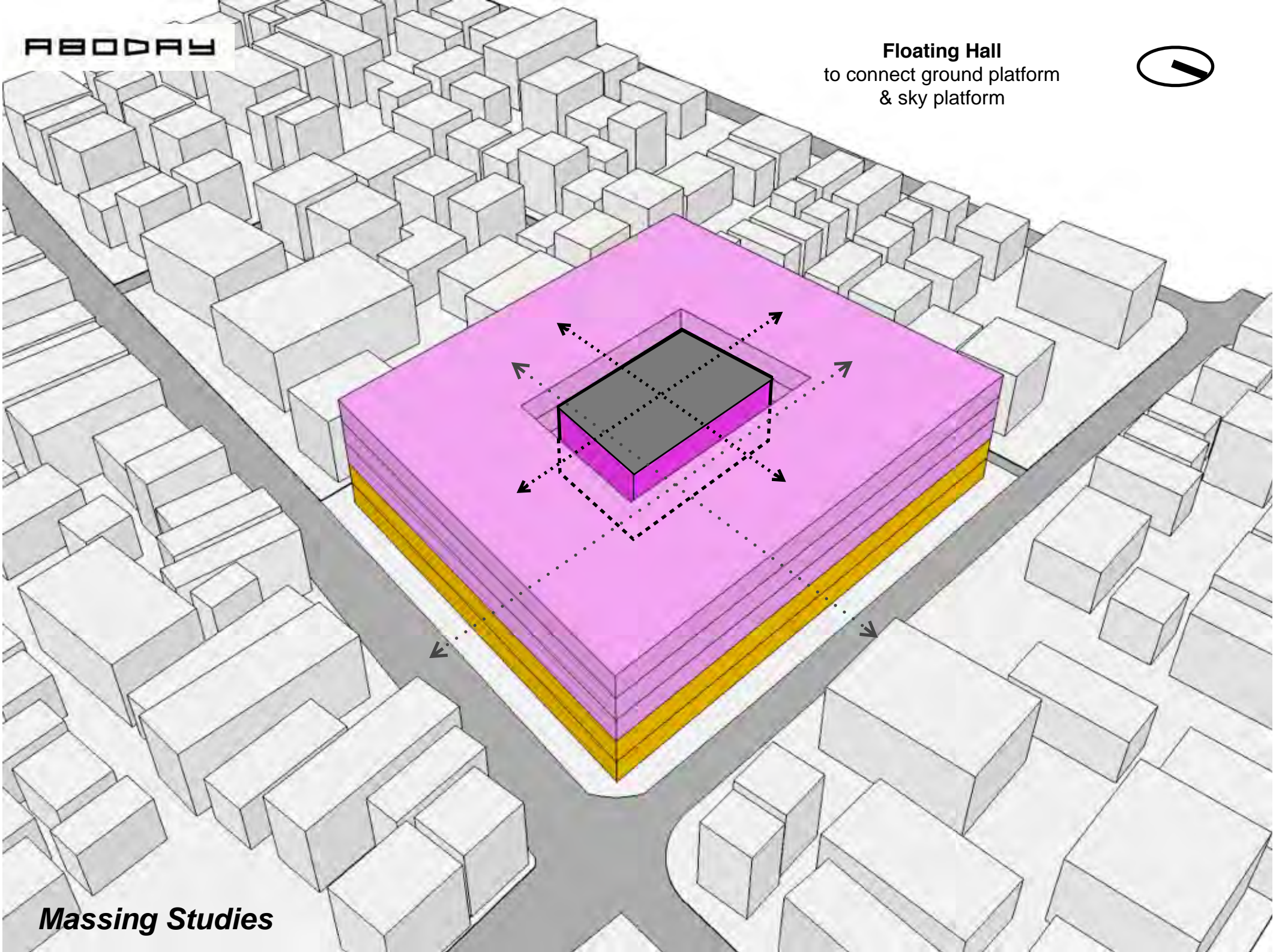
Cross Ventilation
to remove the heat
in the building



Massing Studies

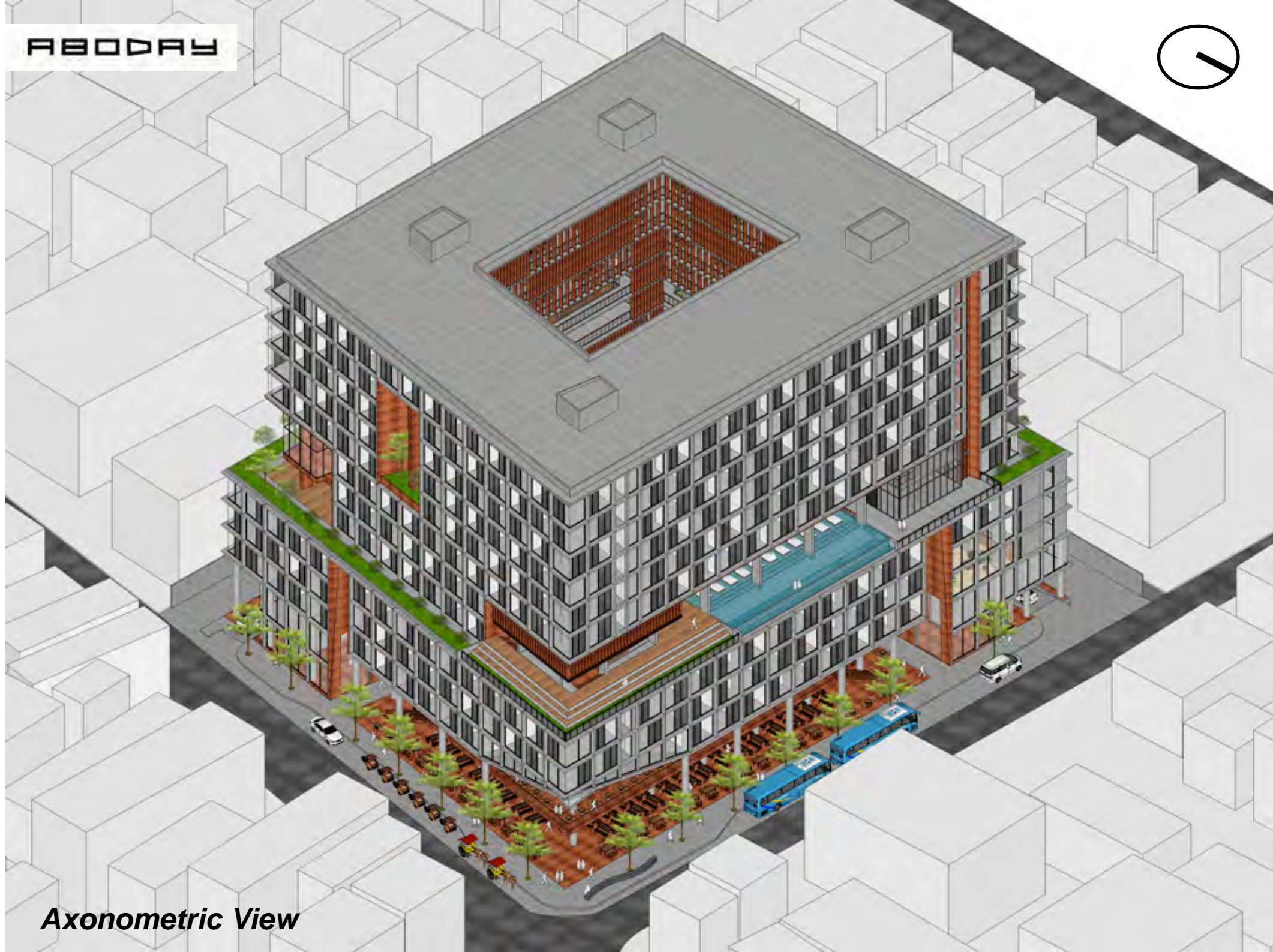
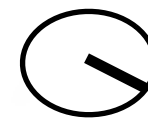
ABODAY

Floating Hall
to connect ground platform
& sky platform



Massing Studies

ABODAY



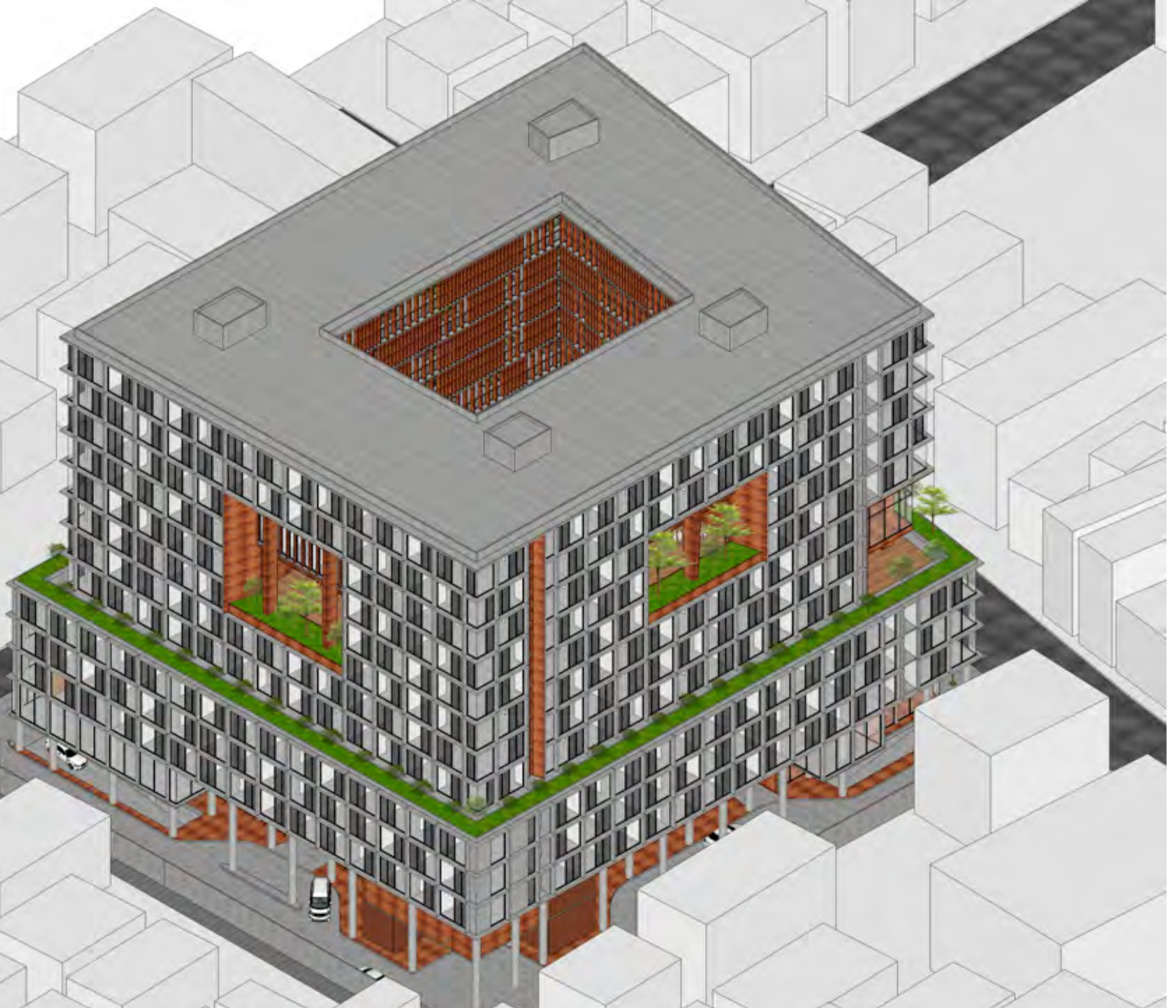
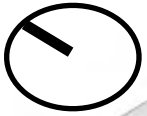
Axonometric View

ABODAY

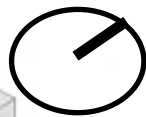


Axonometric View

ABODAY



Axonometric View



Axonometric View

ABODAY



Perspective View



Perspective View

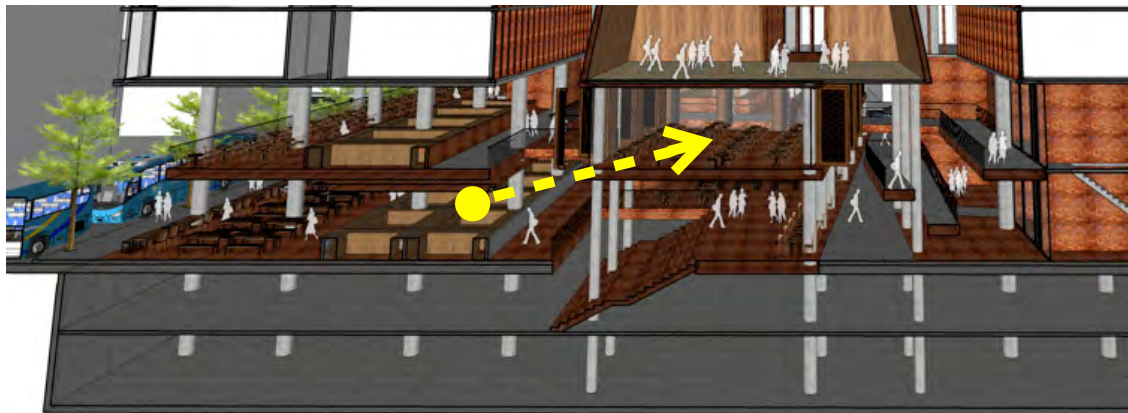
ABODAY

MICRO
CONCEPT

ABODAY



Corridor



Grand Stair
view to commercial area

Basement Area

ABODAY



Commercial Area

**Bring The Street Scene
Into The Building**
to diminish the boundary between
outside and inside the building
to bring the people in



Image : Google Image

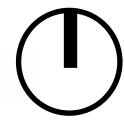
Commercial Area



Total Area
4163 sqm

Commercial Area
2988 sqm

Total Seat
496



Pedestrian

Entrance ○

Commercial Area ○

Reception Area ○

Service Area ○

Lift for Hotel ○

Lift for Apartment ○

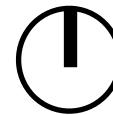
Commercial Area

Ground Floor Plan
Zoning



Total Area
4163 sqm

Commercial Area
2988 sqm



Main Circulation ———

Lay By . . .

Basement - - -

On Street Parking - - - -

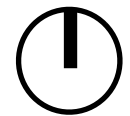
Drop Off

Commercial Area

Ground Floor Plan
Vehicle Circulation



Total Area
4163 sqm
Commercial Area
2988 sqm

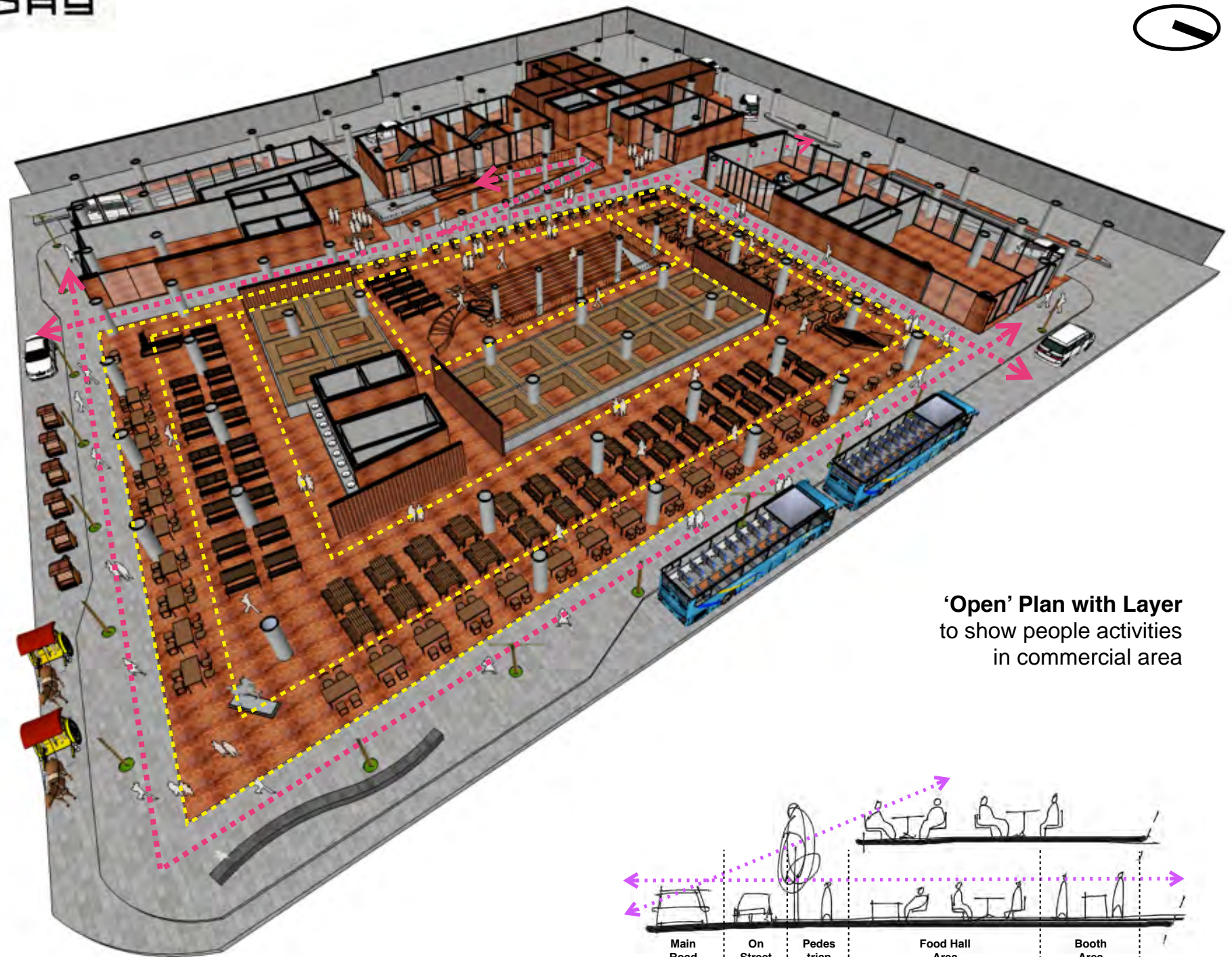


Pedestrian

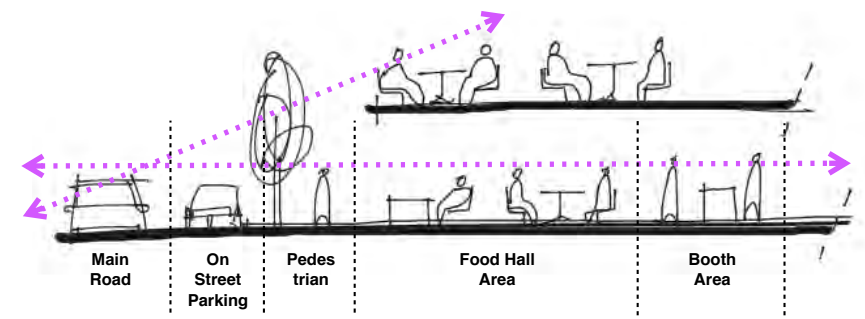
Entrance ○

Commercial Area

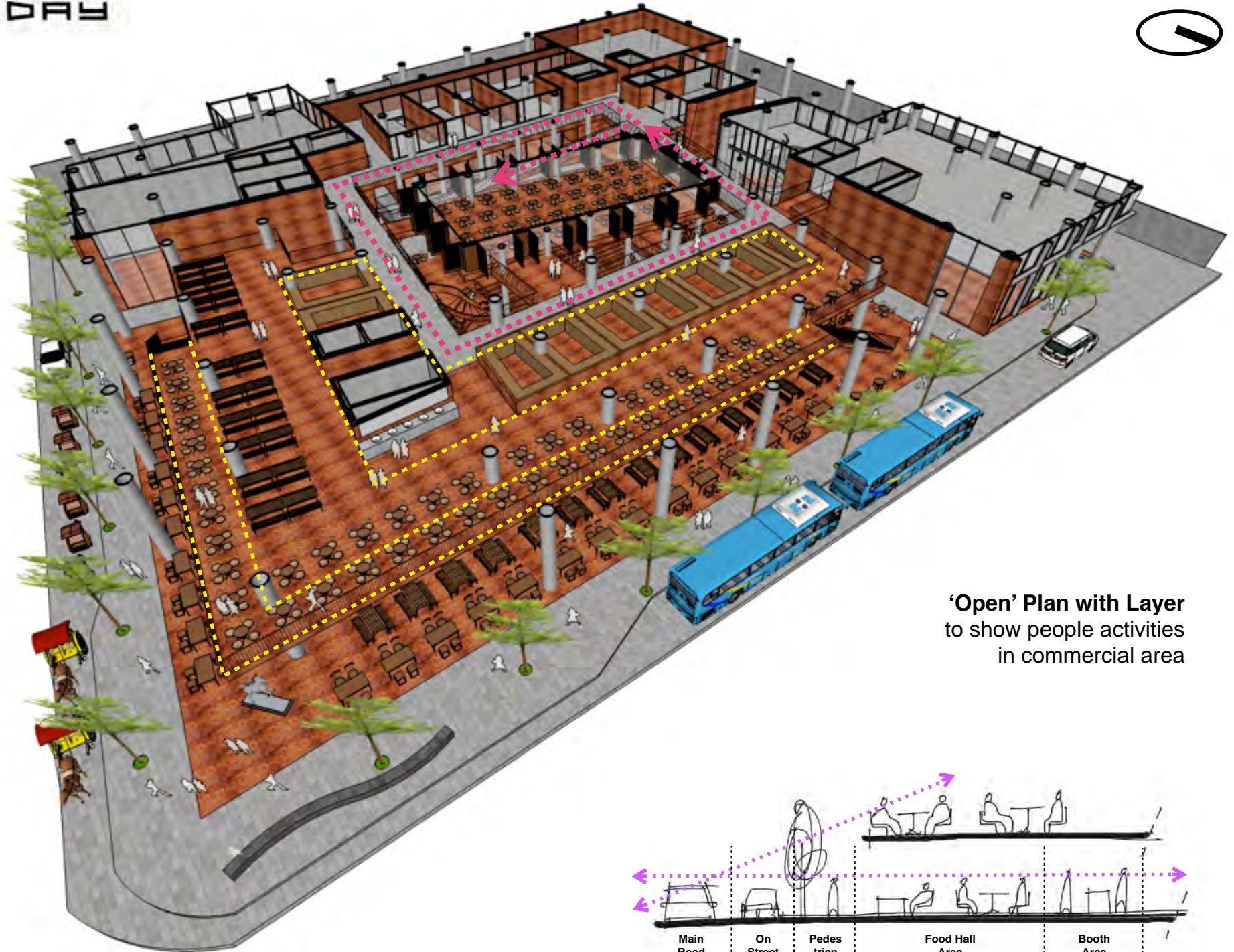
Ground Floor Plan
Pedestrian Circulation



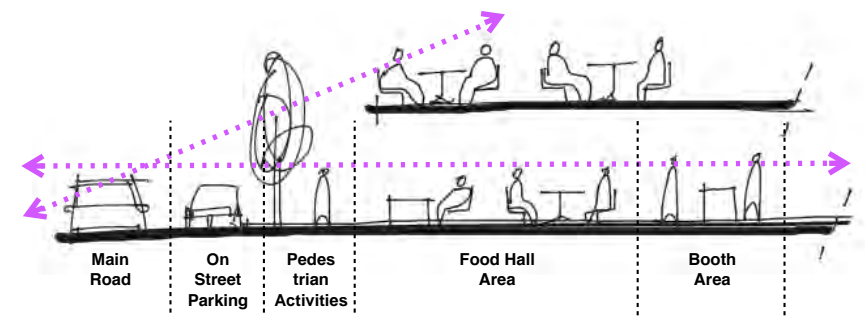
'Open' Plan with Layer to show people activities in commercial area



Commercial Area



'Open' Plan with Layer to show people activities in commercial area



Commercial Area



Exterior View



Exterior View



Inner Court View



Inner Court View

