

GREEN PORTAL OF EMPIRE VILLAGE



YANJIE LIU

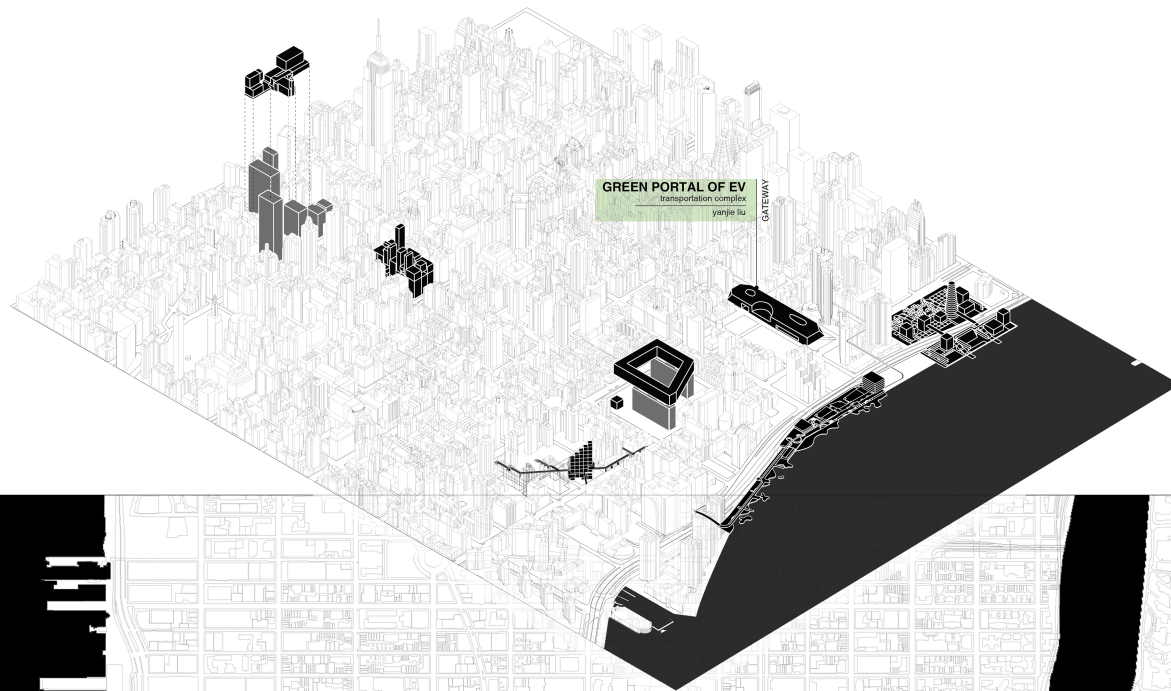
4845315

Complex Projects

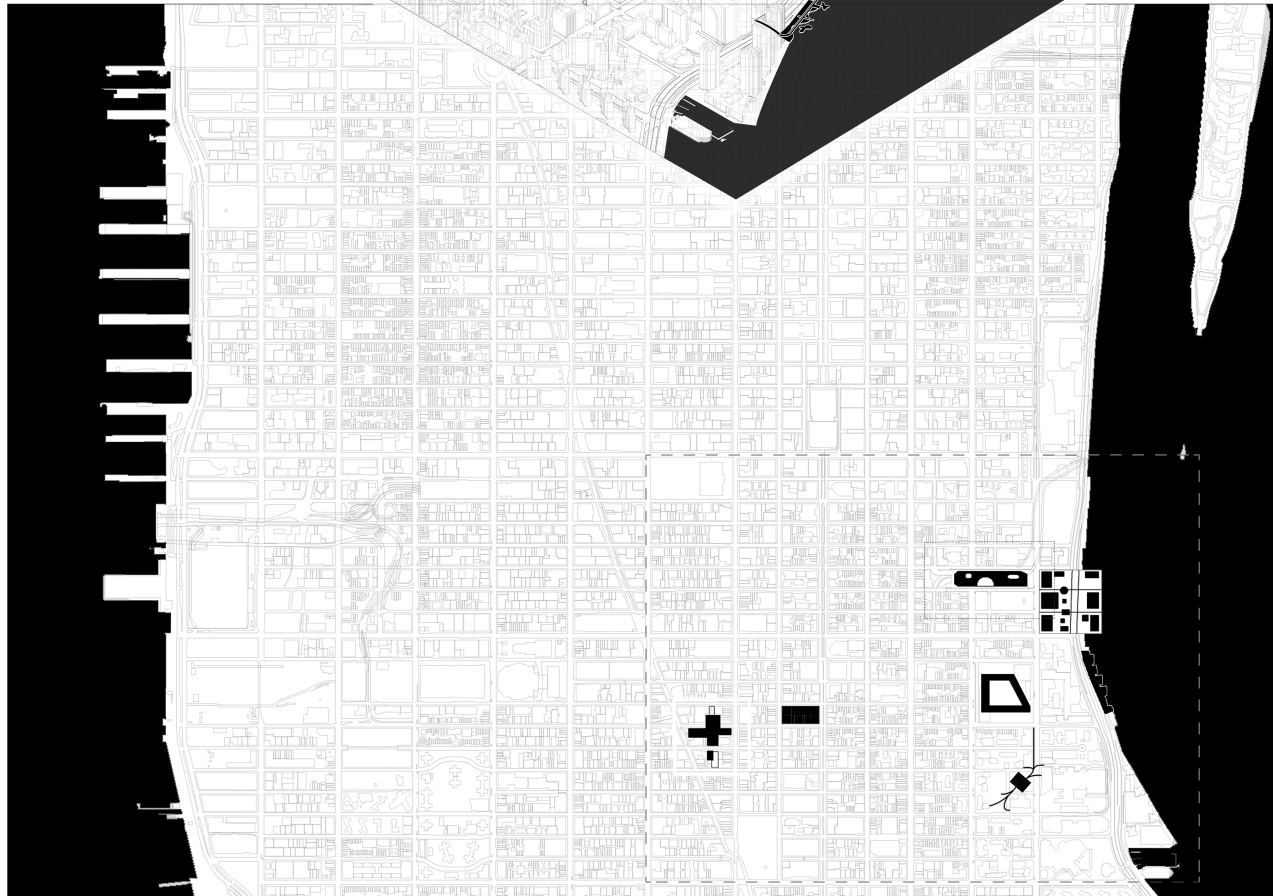
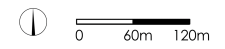
Graduation studio : New York Midtown

Architecture tutor : Stefan de Koning

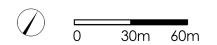
Building Technology tutor: Gilbert Koskamp

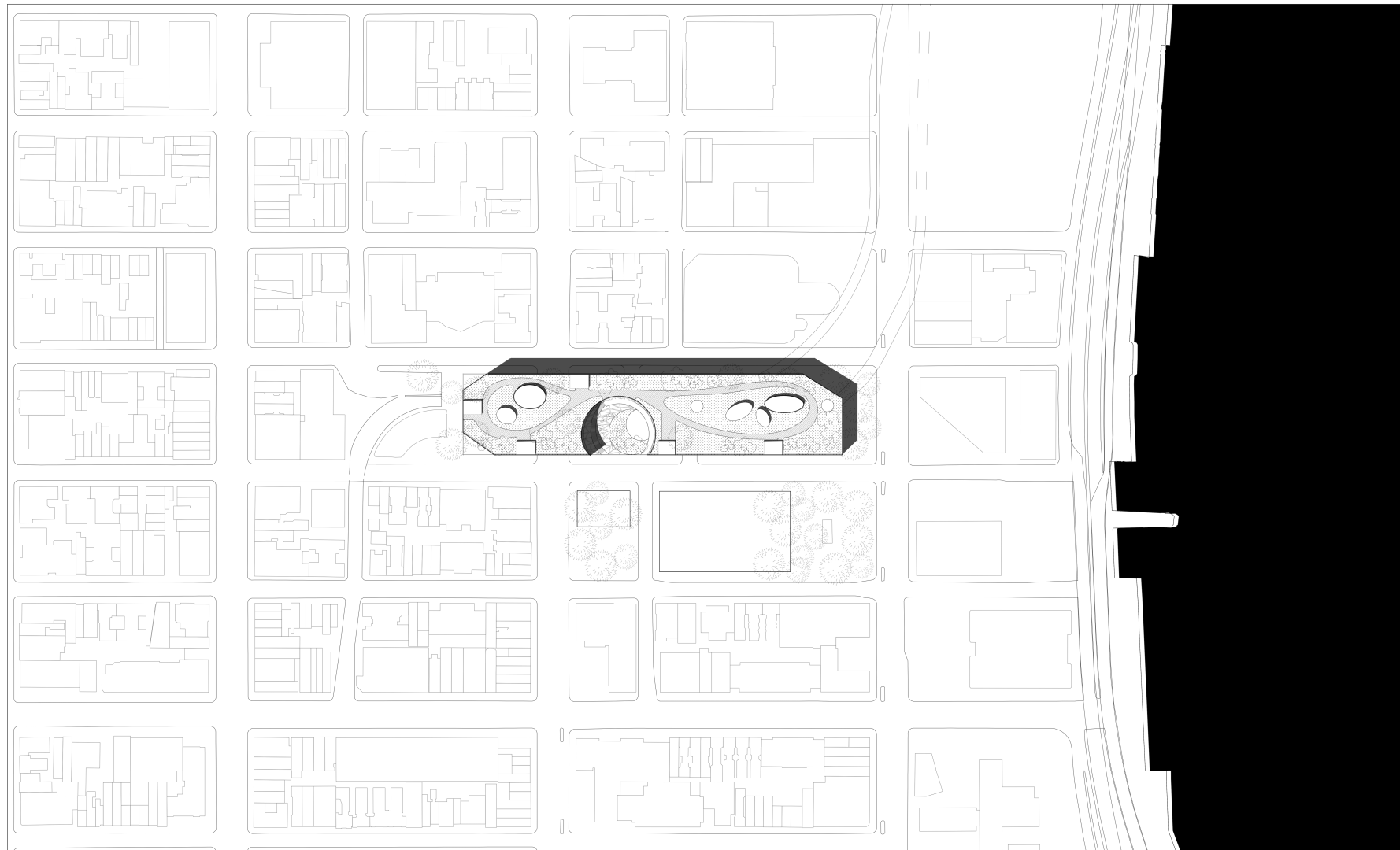


1: 20000 GROUP AXO



1:10000 CITY PLAN

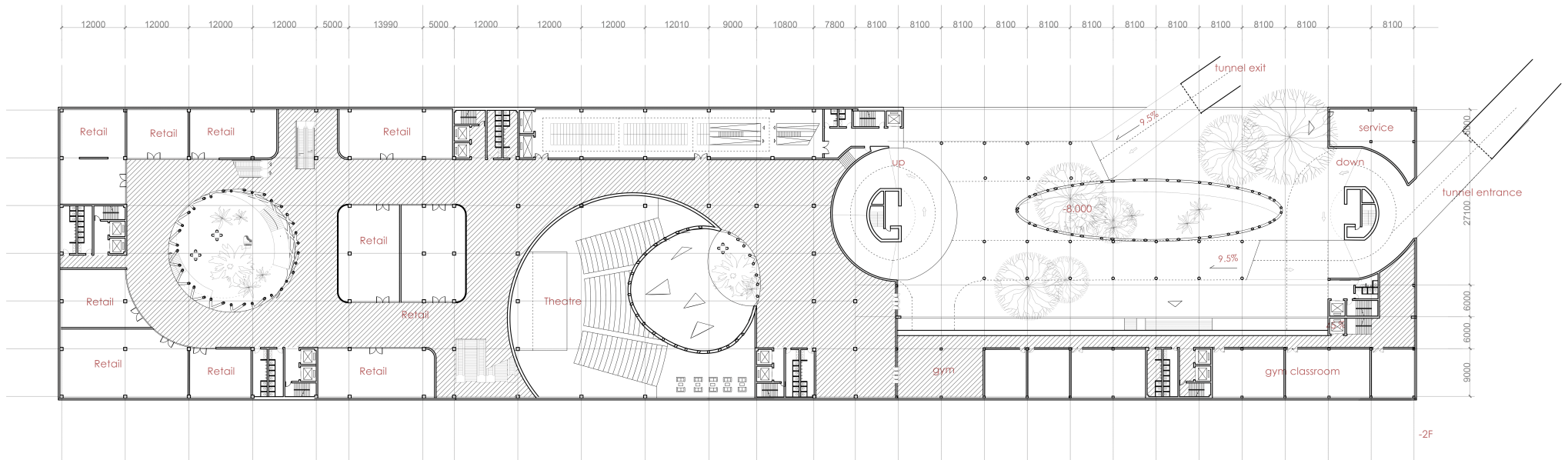




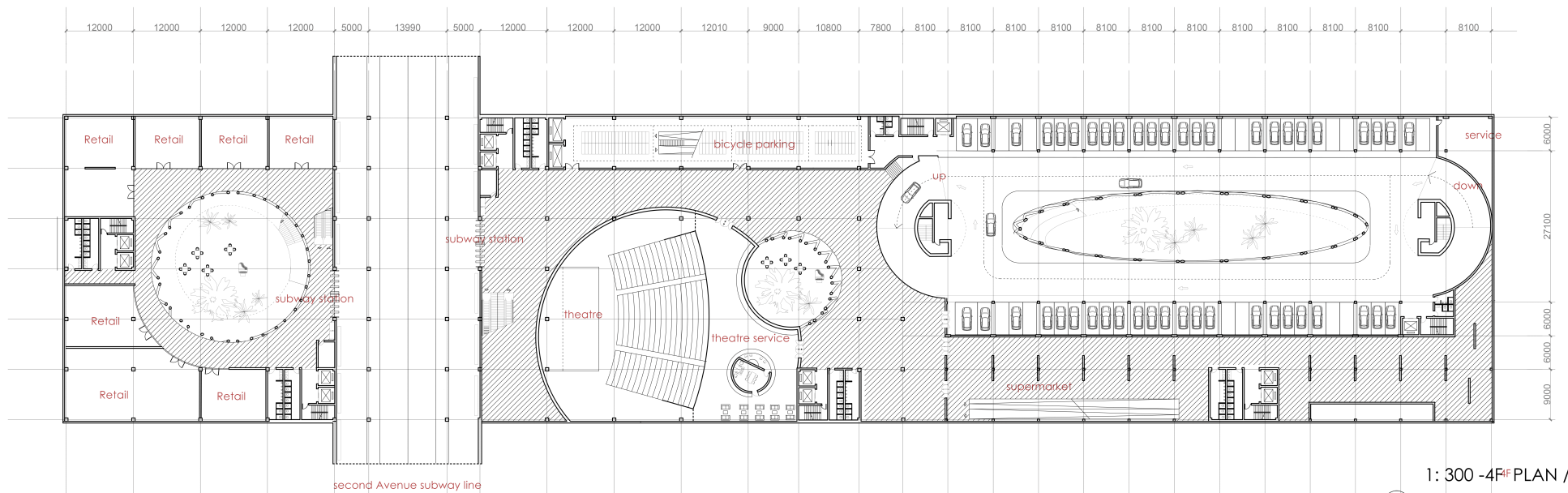
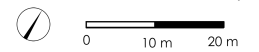
1:1000 SITE PLAN



0 30m 60m

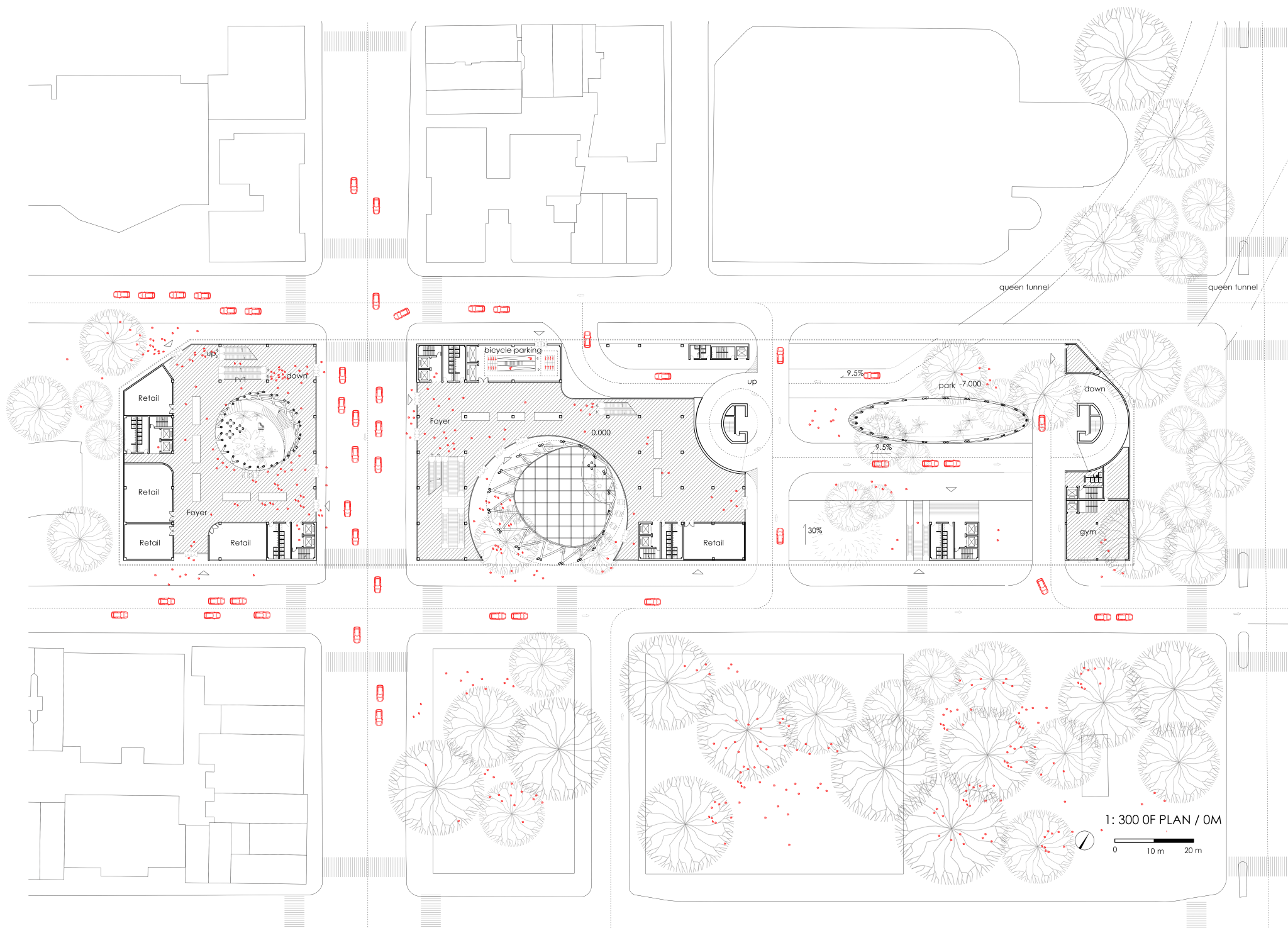


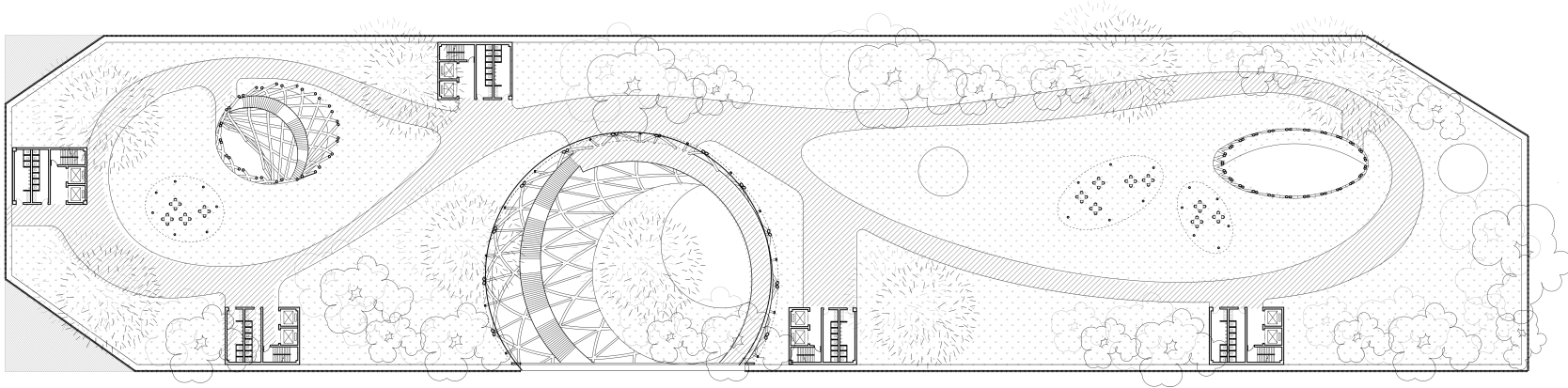
1: 300 -2F PLAN / -6M



1: 300 -4F PLAN / -16 M

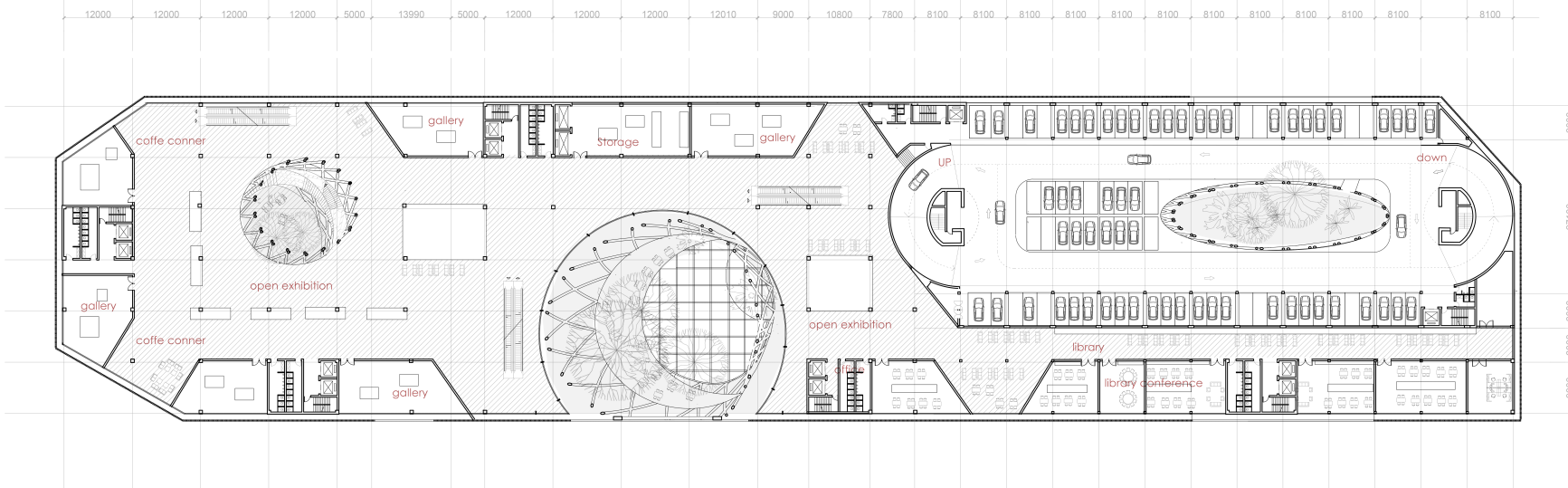






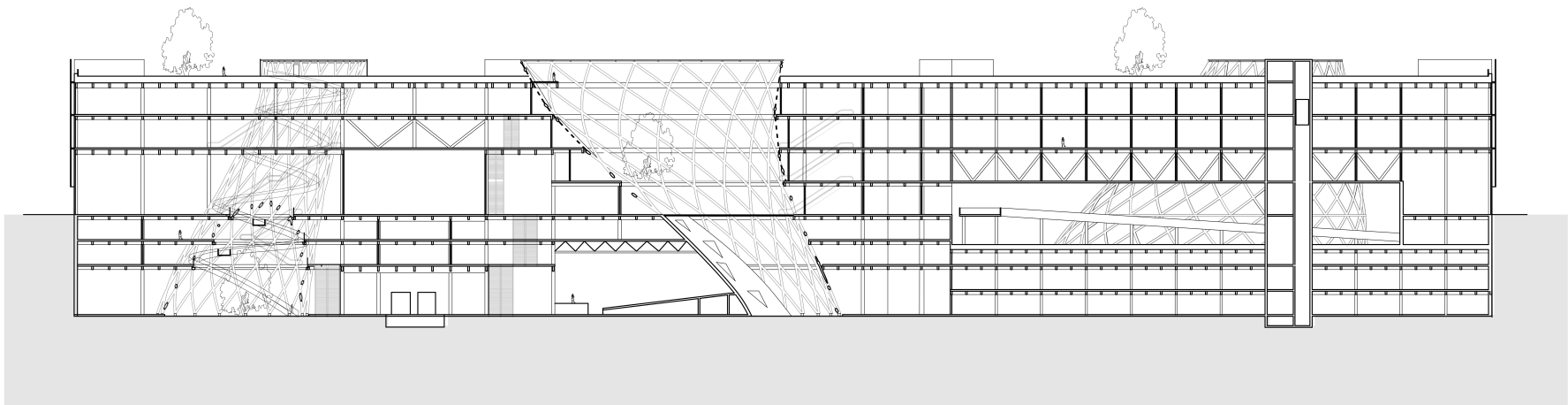
1: 300 ROOF PLAN

0 10 m 20 m



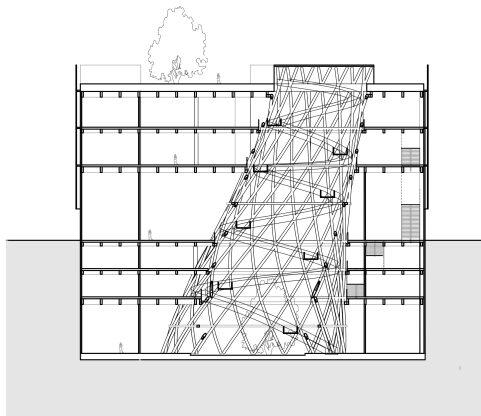
1: 300 2F PLAN / + 15M

0 10 m 20 m



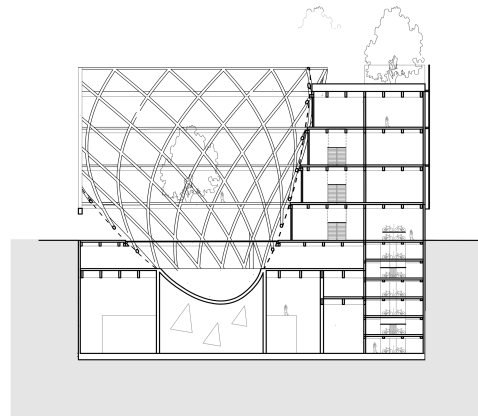
1: 300 SECTION A

0 10 m 20 m



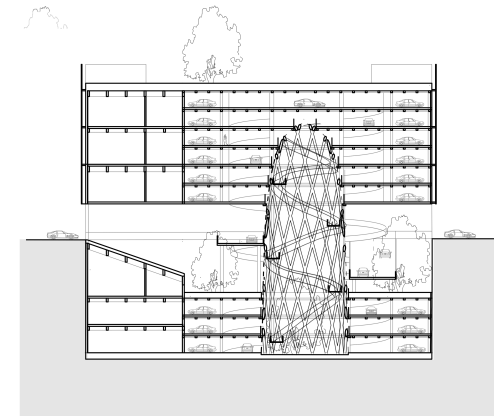
1: 300 SECTION C

0 10 m 20 m



1: 300 SECTION D

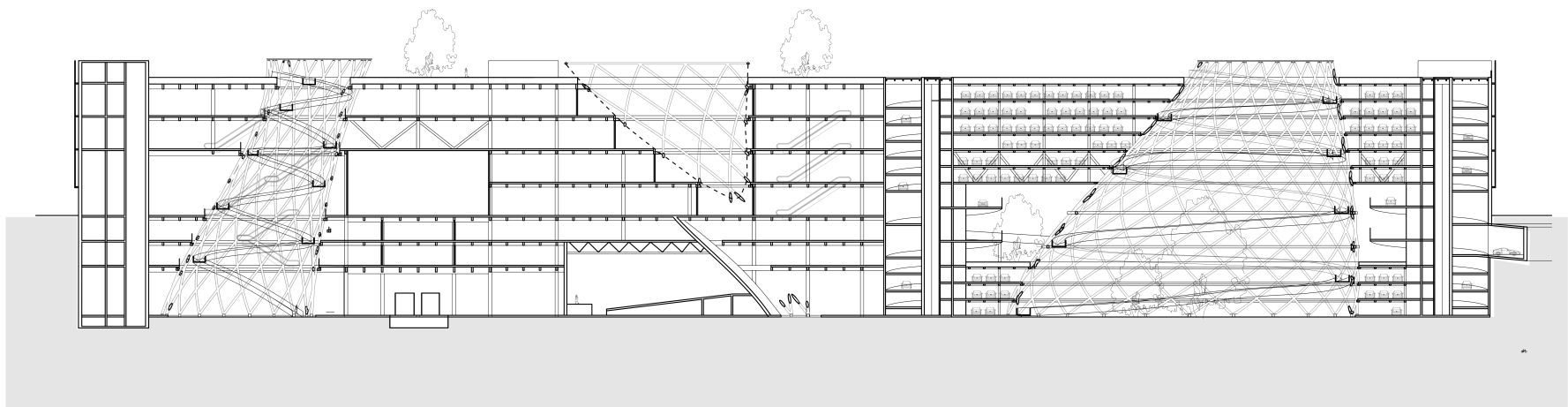
0 10 m 20 m



1: 300 SECTION E

0 10 m 20 m

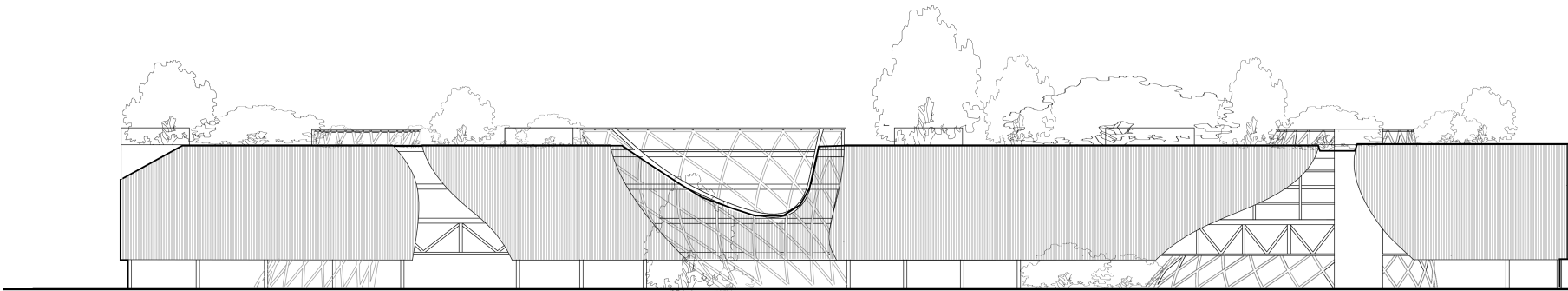




1: 300 SECTION B

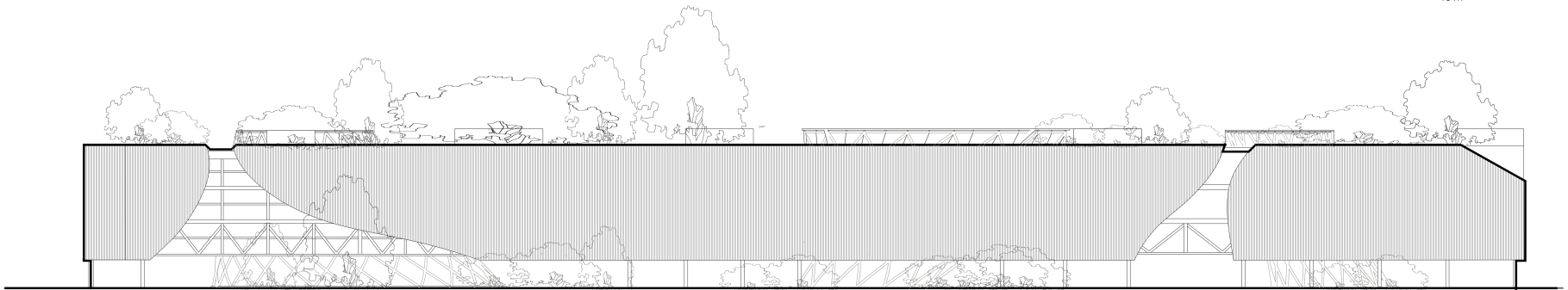


0 10 m 20 m



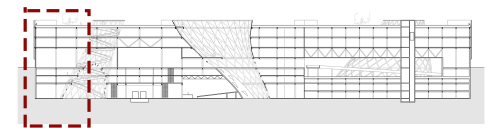
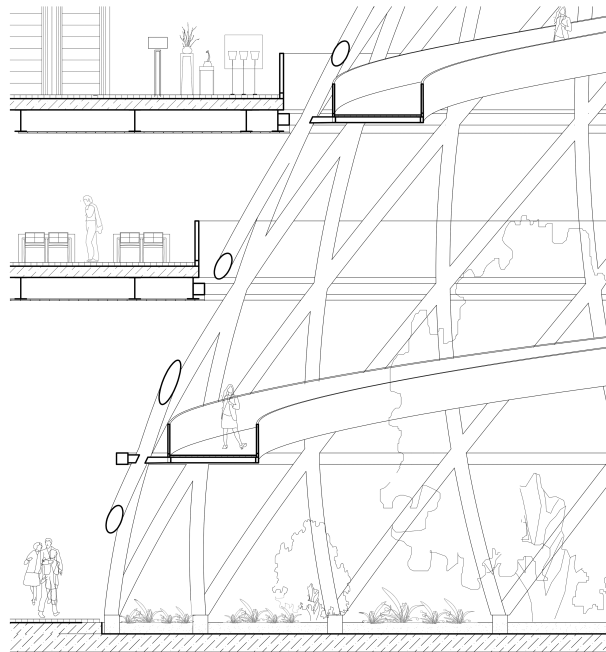
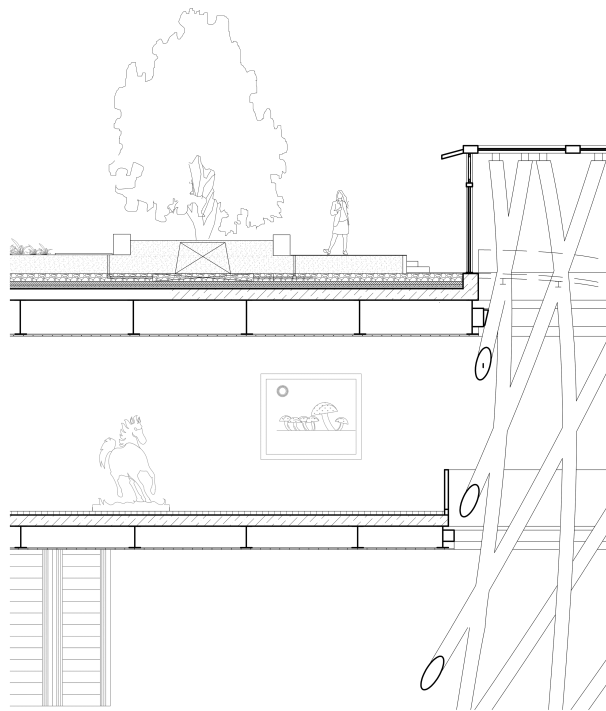
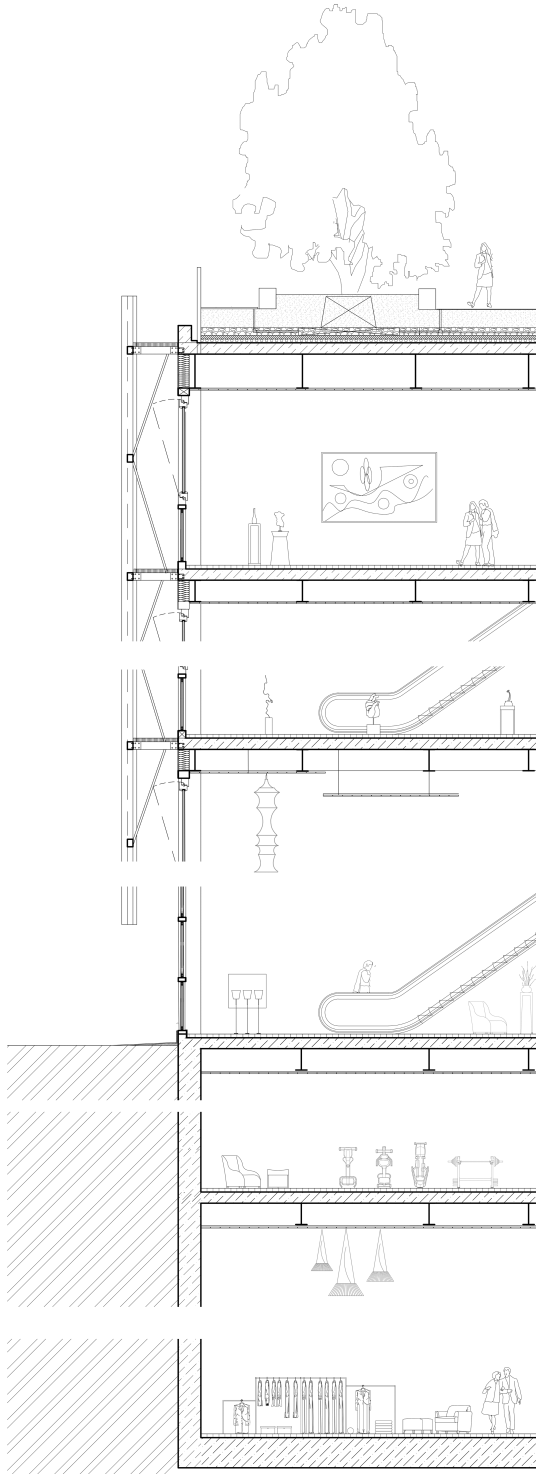
1: 300 SOUTHWEST ELEVATION

0 10 m 20 m



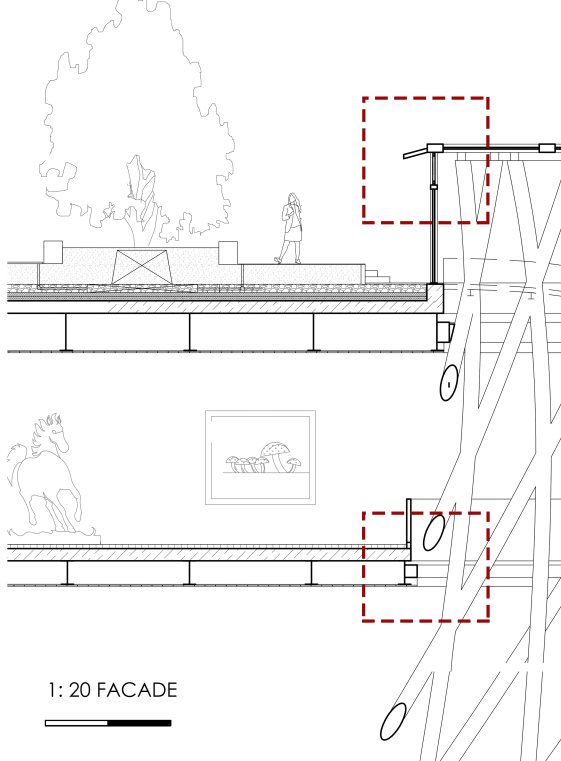
1: 300 NORTHEAST ELEVATION

0 10 m 20 m

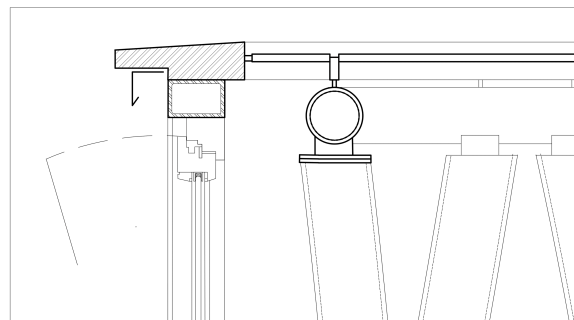
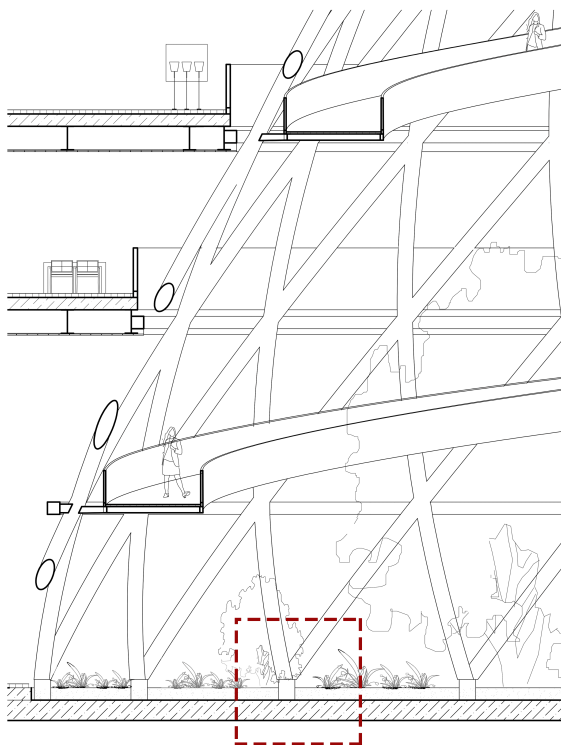


1: 50 SECTION



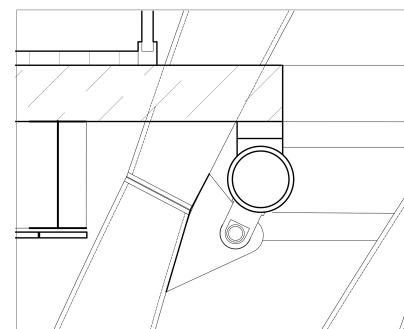
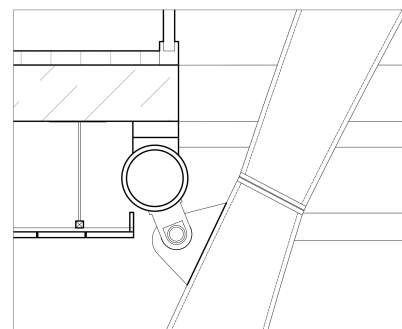


1: 20 FACADE

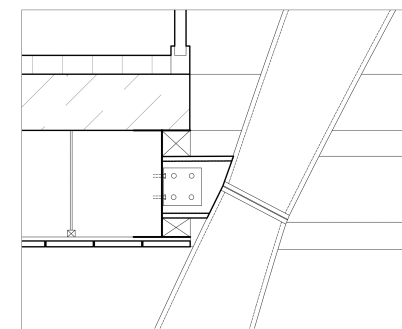


1: 10 ROOF DETAIL

roof element:
2.5mm anodized-aluminium sheeting
70 mm mineral wool
3 mm galvanized steel sheeting



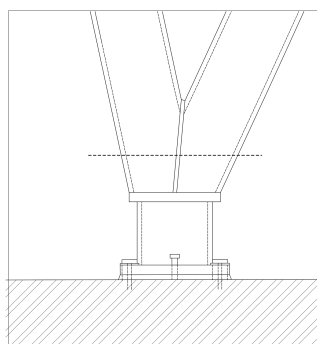
Bolted joint



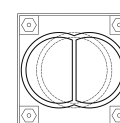
Welding joint

Wooden pavement /100 mm maple wood
200 mm concrete floor
600/300 mm I-beam
laster board ceiling

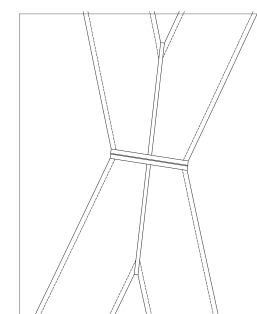
Load-bearing structure
I-beam (600 x 300mm)
void mesh: steel tube(Φ 420/25mm)
ring beam: 300mm



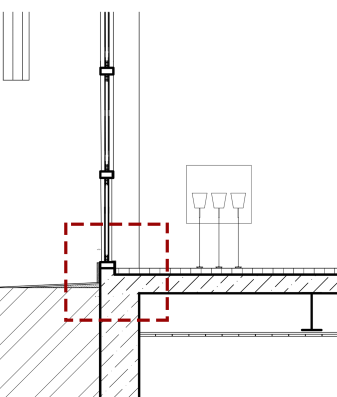
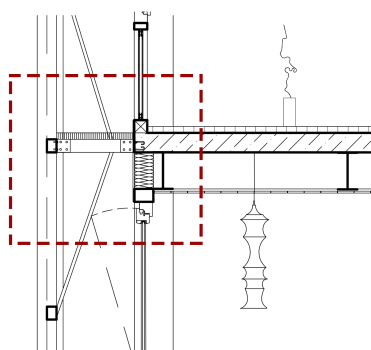
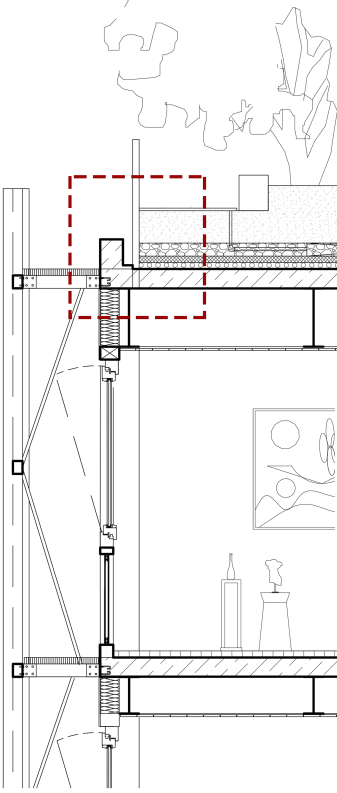
1: 10 ROOT DETAIL



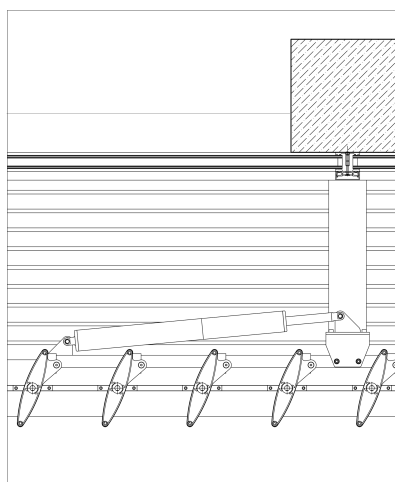
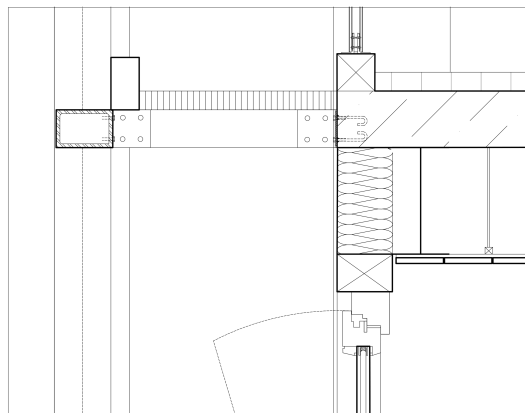
25mm steel plate
 Φ 420/25mm steel tube
20 mm steel plate
400/400/50 mm steel plate



INSIDE - VOID STRUCTURE

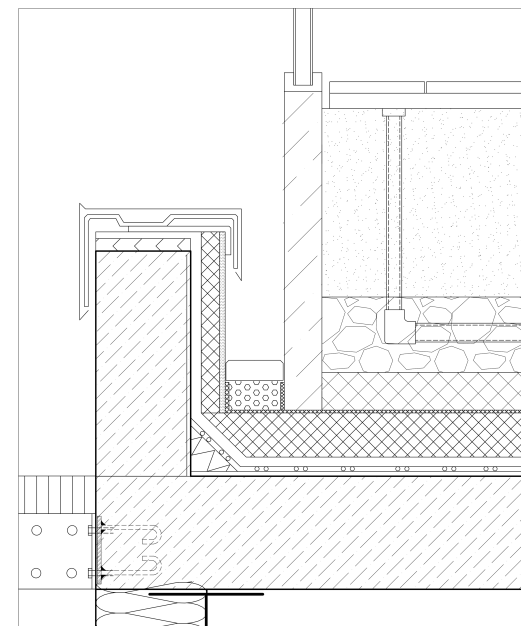


1: 20 FACADE



Building structure
Curtain wall with glazing(Partially openable)
Electronically controlled pneumatic arm
Horizontal fin supports
Perforated aluminum vertical louvers(450mm)

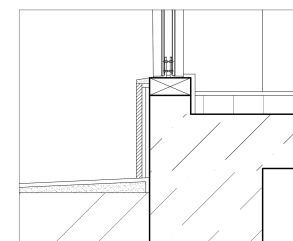
1: 10 ALUMINUM LUVER DETAIL



1: 5 EAVE DETAIL



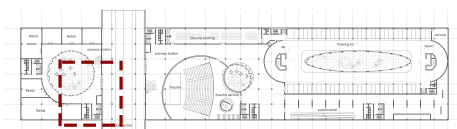
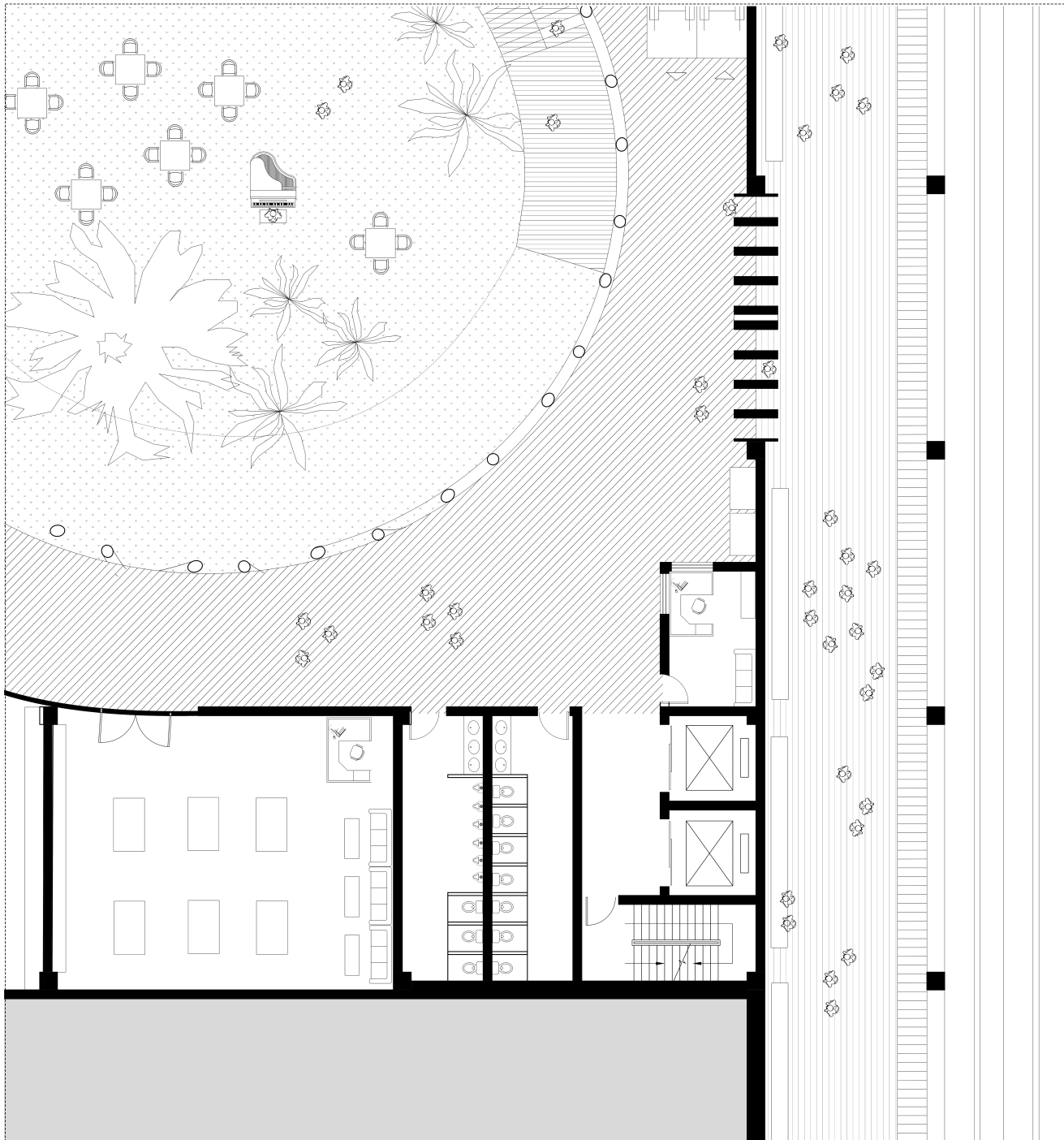
concrete with sloping floor
leveling layer
protective layer
PVC waterproofing
ROOFMATE SL
geotextile filter layer
soil base
slab surface
thermal insulation material
geotextile
grits - drainage layer
lining
Roofmate
wooden washer
overlap



1: 10 Curtain wall foundation

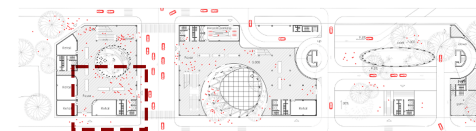
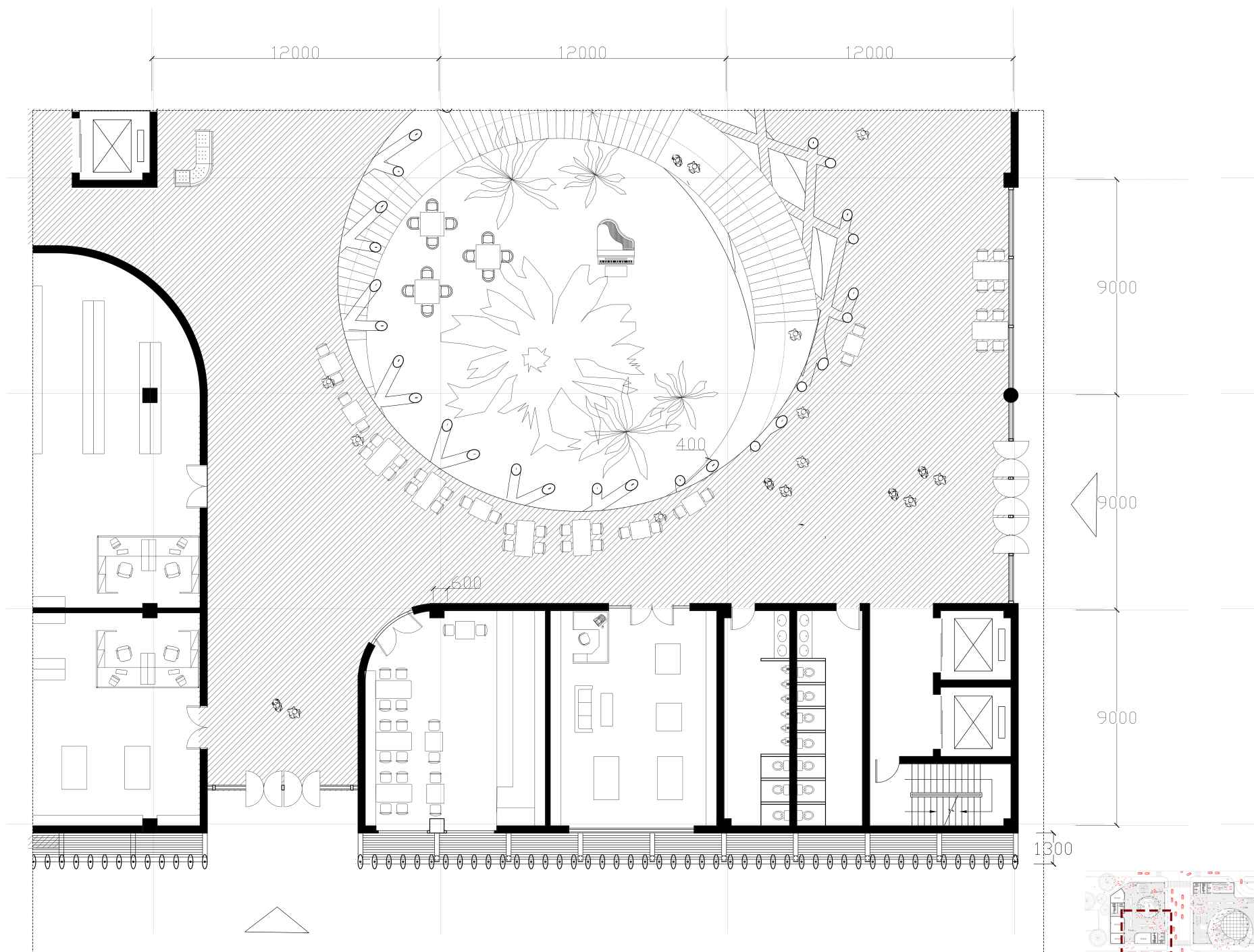


OUTSIDE - FACADE STRUCTURE



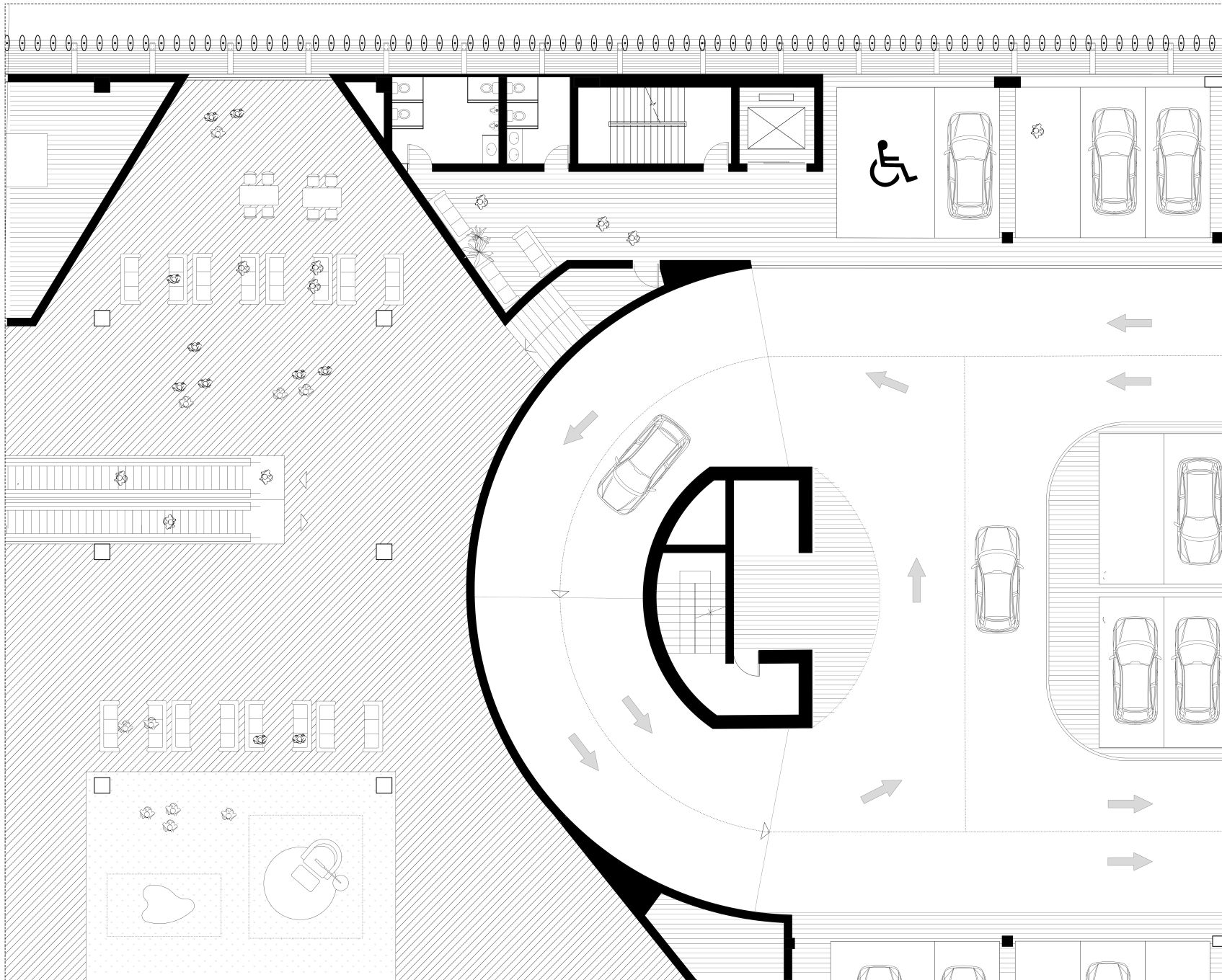
1: 50 PLAN A





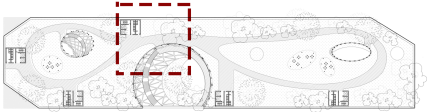
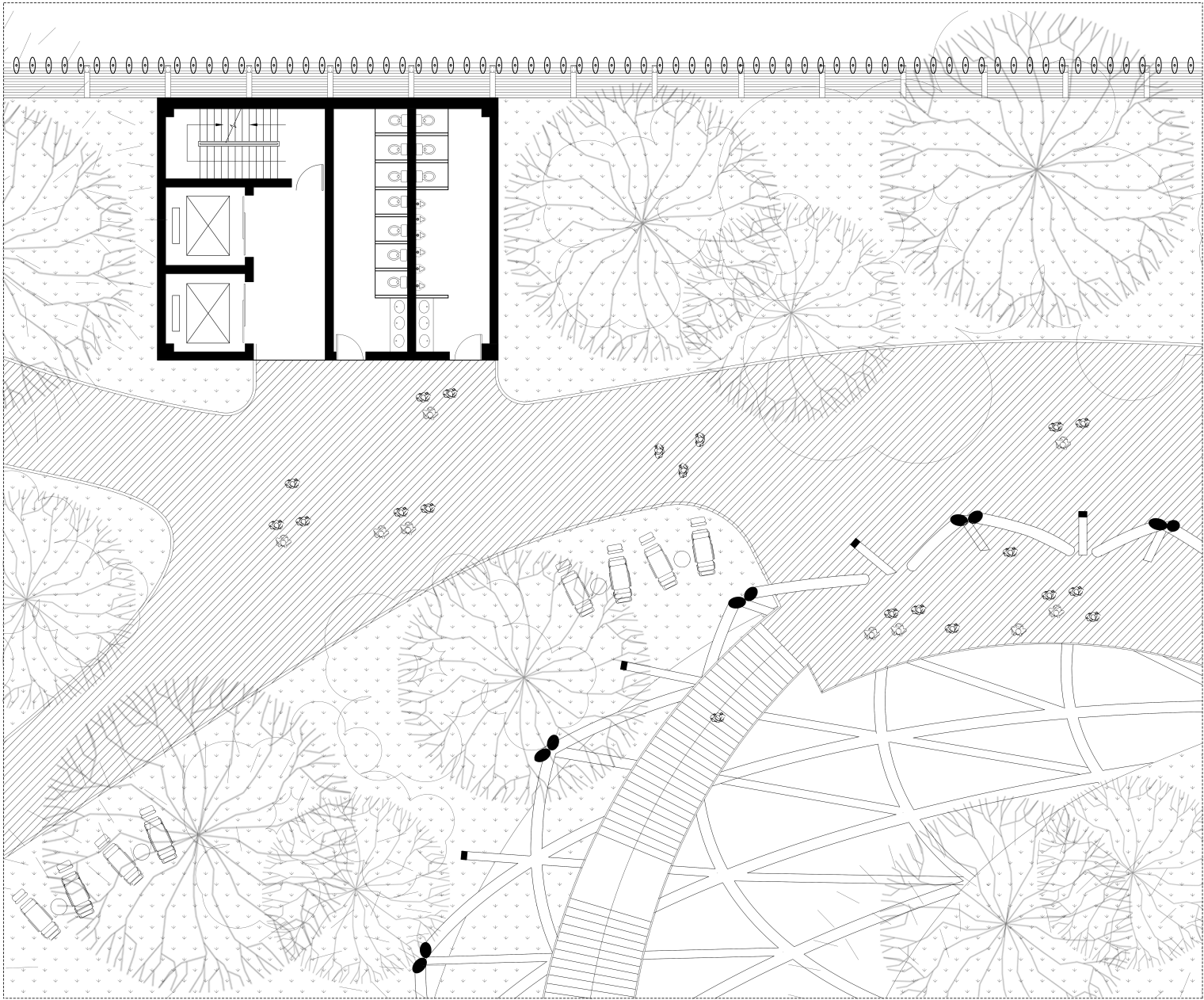
1: 50 PLAN C





1: 50 PLAN D

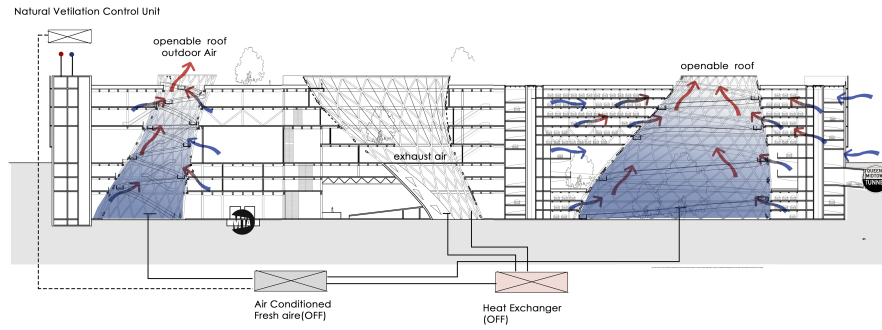




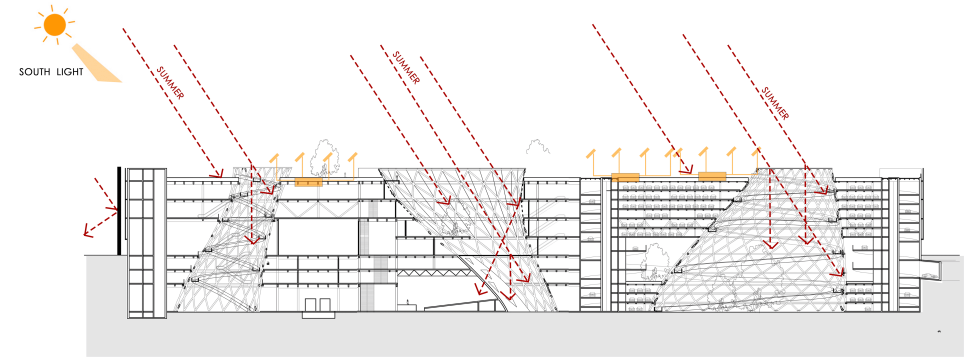
1: 50 PLAN E



SUMMER

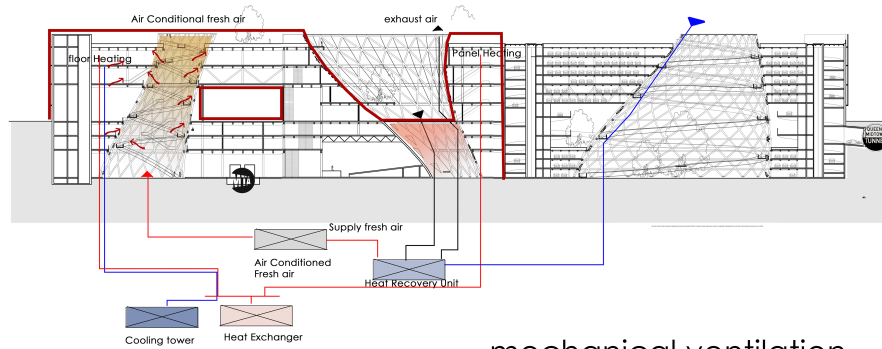


natural ventilation

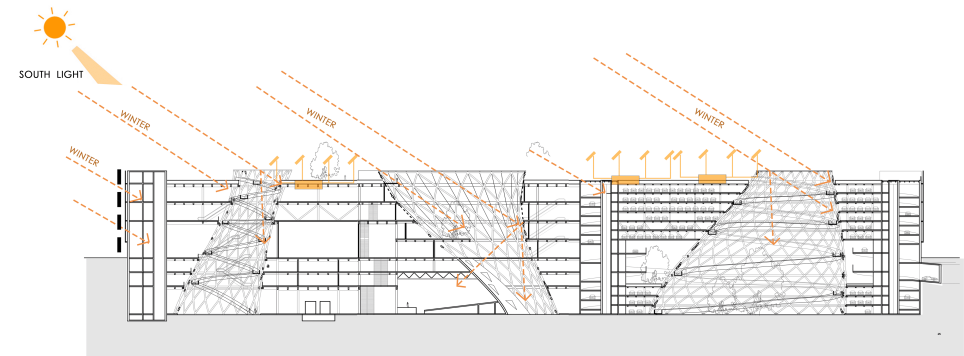


solar protection

WINTER



mechanical ventilation



light penetration