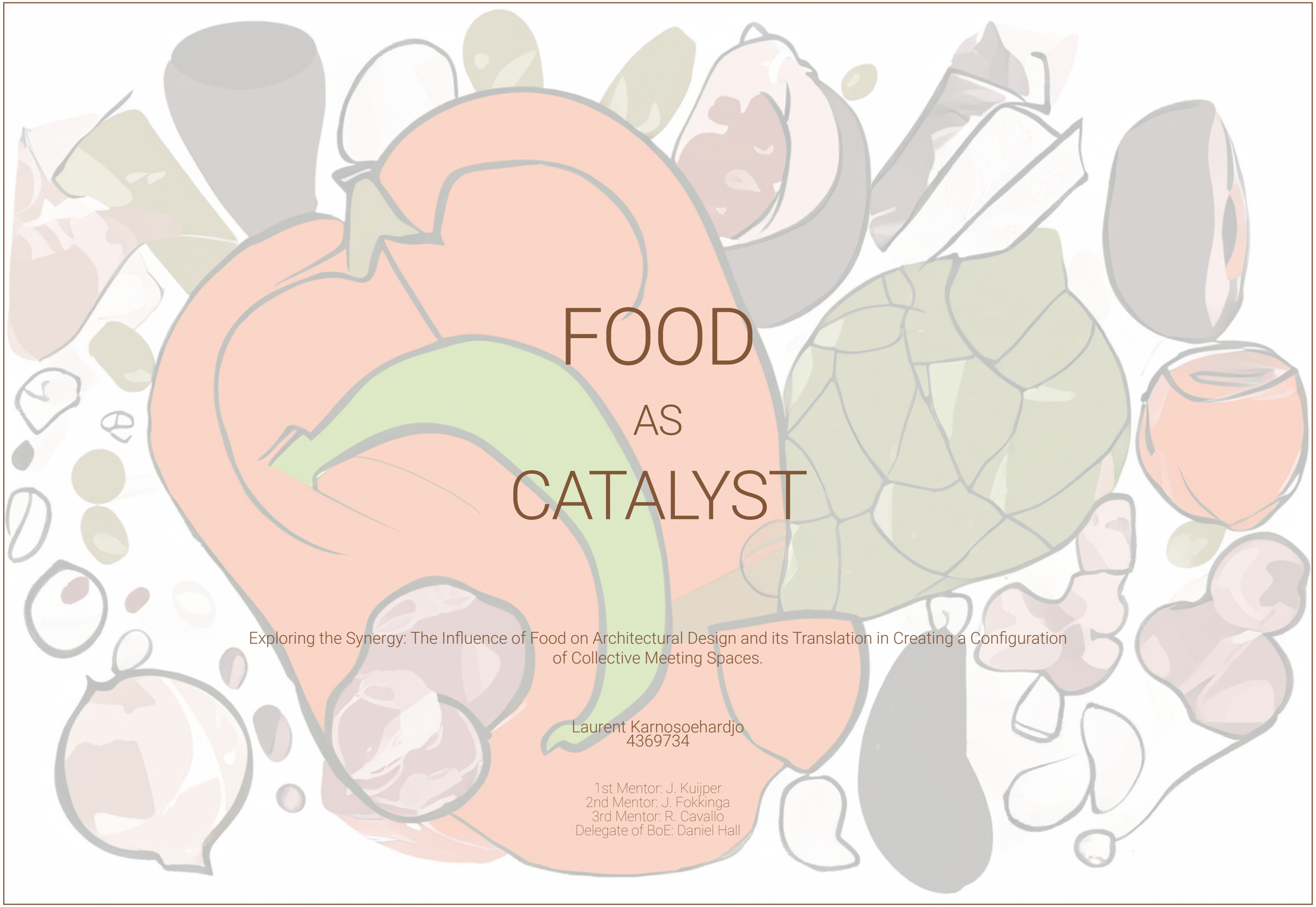


FOOD
AS
CATALYST

Exploring the Synergy: The Influence of Food on Architectural Design and its Translation in Creating a Configuration of Collective Meeting Spaces.

Laurent Karnosoehardjo
4369734

1st Mentor: J. Kuijper
2nd Mentor: J. Fokkinga
3rd Mentor: R. Cavallo
Delegate of BoE: Daniel Hall

Fascination
Research
Design
Scenarios




randstad gezond







Social cohesion ⟷ Community food initiatives ⟷ Food

‘what’

Interaction

Participation ⟷ Social activities

‘where’

Interaction

Participation ⟷ Social activities

‘how’

Interaction

Participation ⟷ Social activities

Social cohesion ⟷ Community food initiatives ⟷ Food

'Desired effect'

Fonseca et al. (2018)

*'The ongoing process of developing the **well-being**, **sense of belonging**, and voluntary **social participation** of the **members of society**, while simultaneously developing communities that tolerate and promote a multiplicity of values and cultures and granting equal rights and opportunities within society.'*

'Mediator'

Marovelli (2019), Hasanov et al. (2019)

Food is a tool that brings people together, but **this does not mean that it always automatically happens** naturally for everyone. For this reason, **community food initiatives** are the critical link to serve as a **mediators** to ensure that it will eventually occur.

'Tool'

Marovelli (2019)

*'Food brings people together and food initiatives go beyond the food by **addressing** the **material** and **affective components** of **cooking and dining together** and by **cultivating collective spaces of encounter**.'*

Anderson (2005)

*'Food can be a **component of an individual's identity** by detailing how rice, for example, is an integral aspect of Japanese culture and society. **This information can be shared**, allowing **conversation** and **participation**, and **ensuring social engagement**.'*

‘In which way are community food initiatives designed to enhance social cohesion?’

Case studies

Food redistribution



Community centres



Community food hub



Case studies

Urban food hub



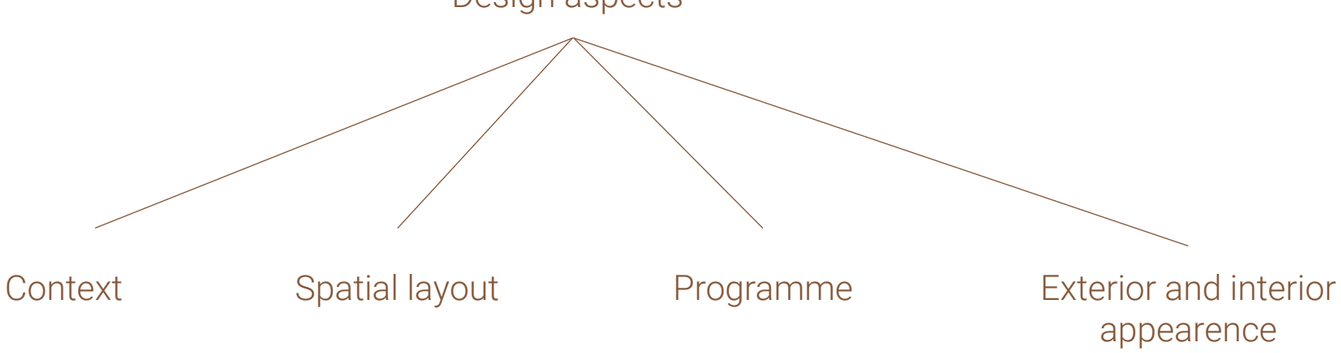
Community food centres



Community food hall



Goals
Organisation
Activities
Design aspects



Context
Spatial layout
Programme
Exterior and interior appearence


Centre
of Londen


Grow
Urban Food System masterplan
Close the loop
Cook
Share
Eat
Learn

Food forests

Urban farm

Social Food Hub

Food waste manage-
ment and Energy &
water recovery

Symbiotic agricul-
tural sytems

Cook

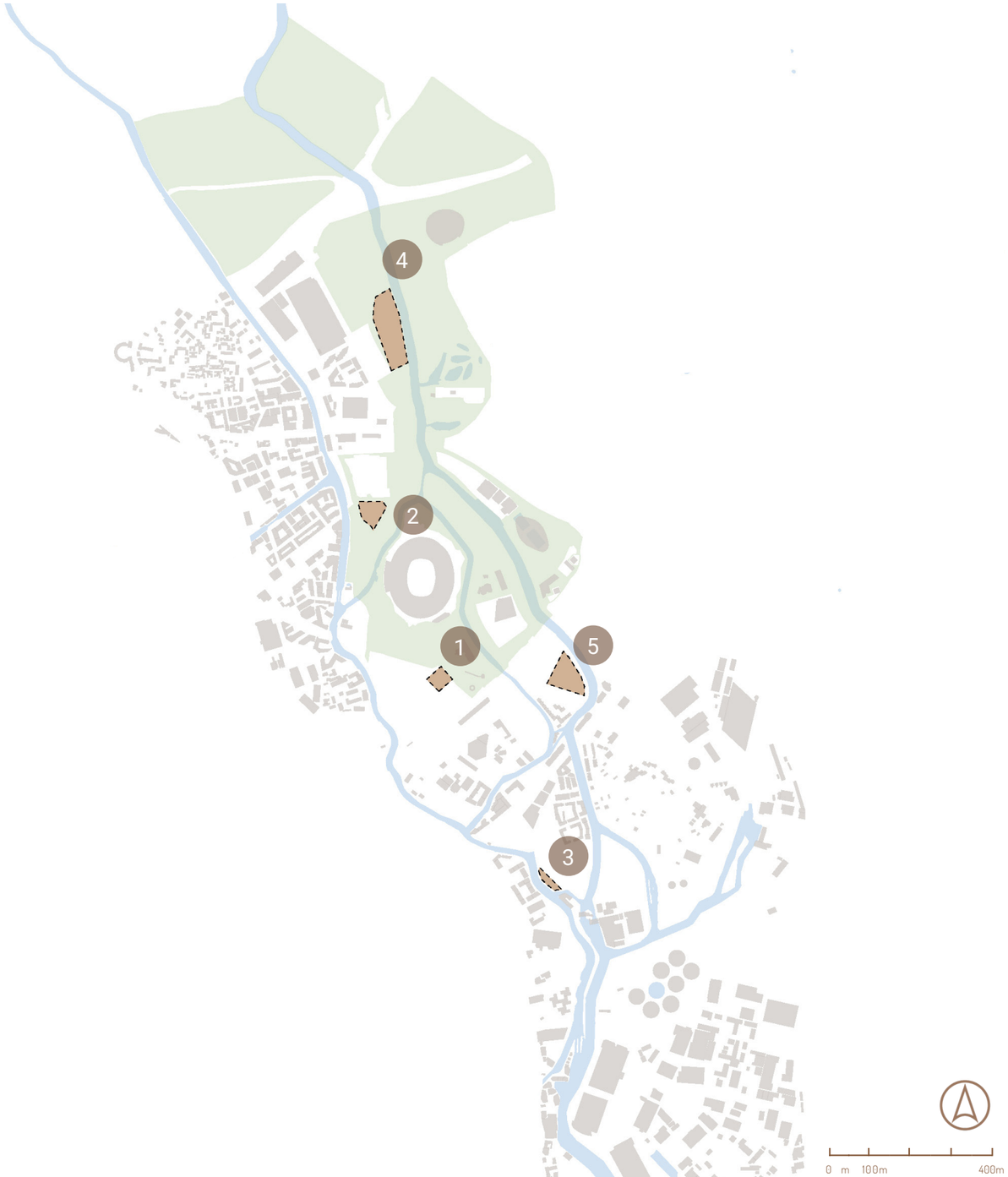
Learn

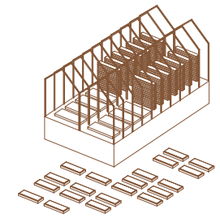
Grow

Eat

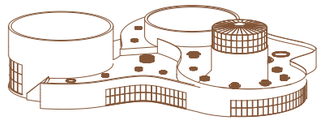
Share

Close the
loop

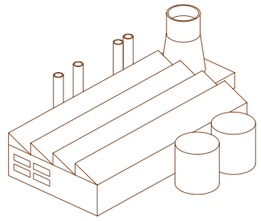




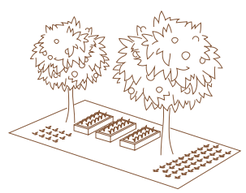
Food farm



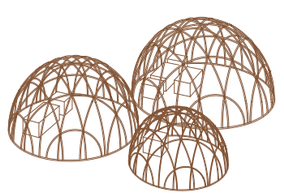
Social food hub



Food waste management and Energy & water recovery

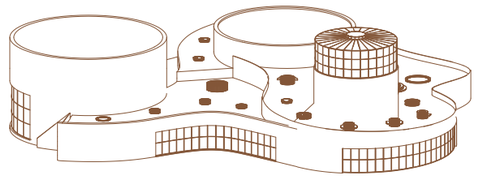


Food forest



Symbiotic agriculture systems

How does the building look like?

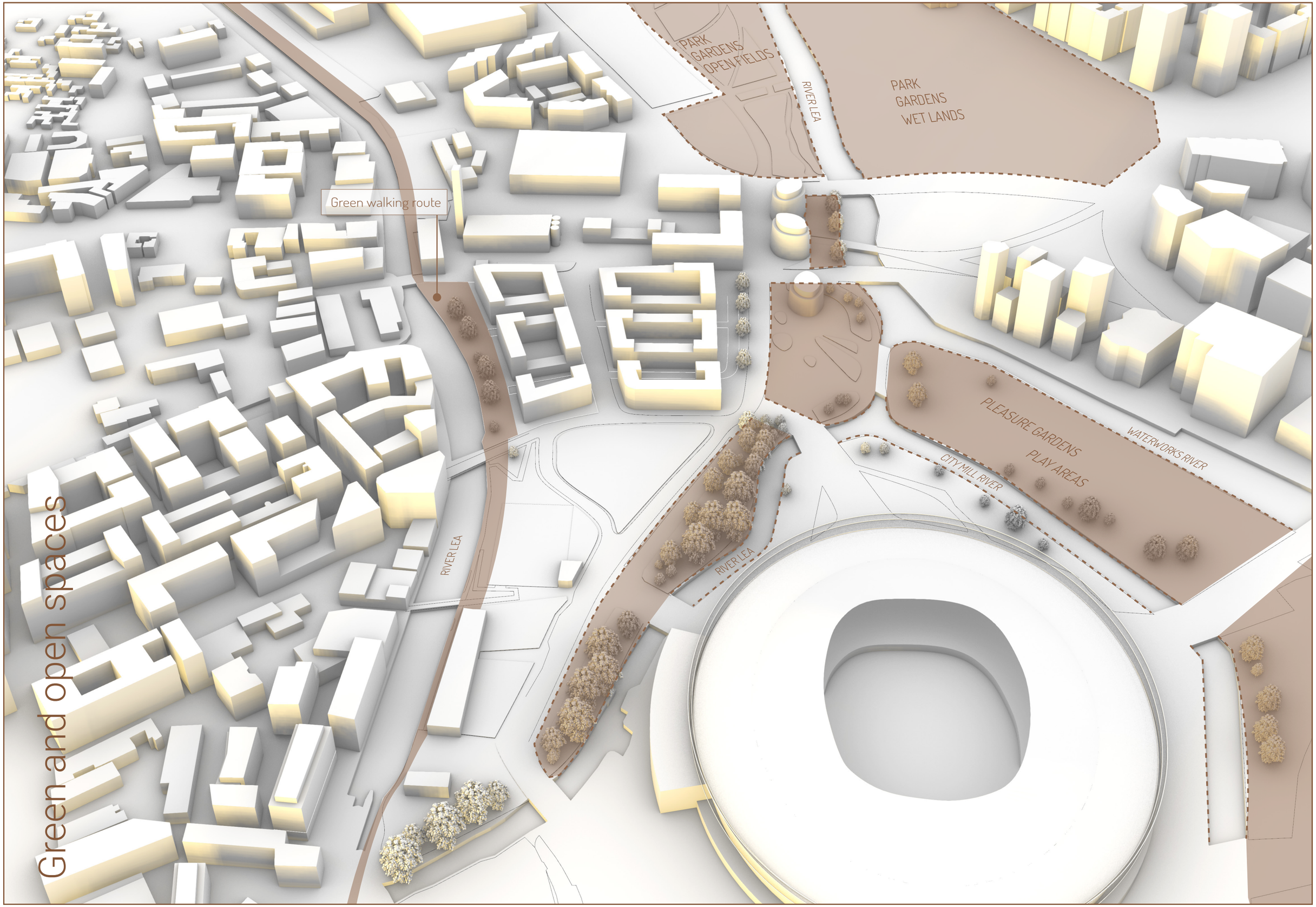


Social food hub


Context
Shape
Design







Green and open spaces

Potentials and newle planned buildings

New residences under construction

Newly planned residences

Newly planned residences

RIVER LEA

Potential active waterfront

Newly planned residences

New residences under construction

New buildings, renovation or transformation

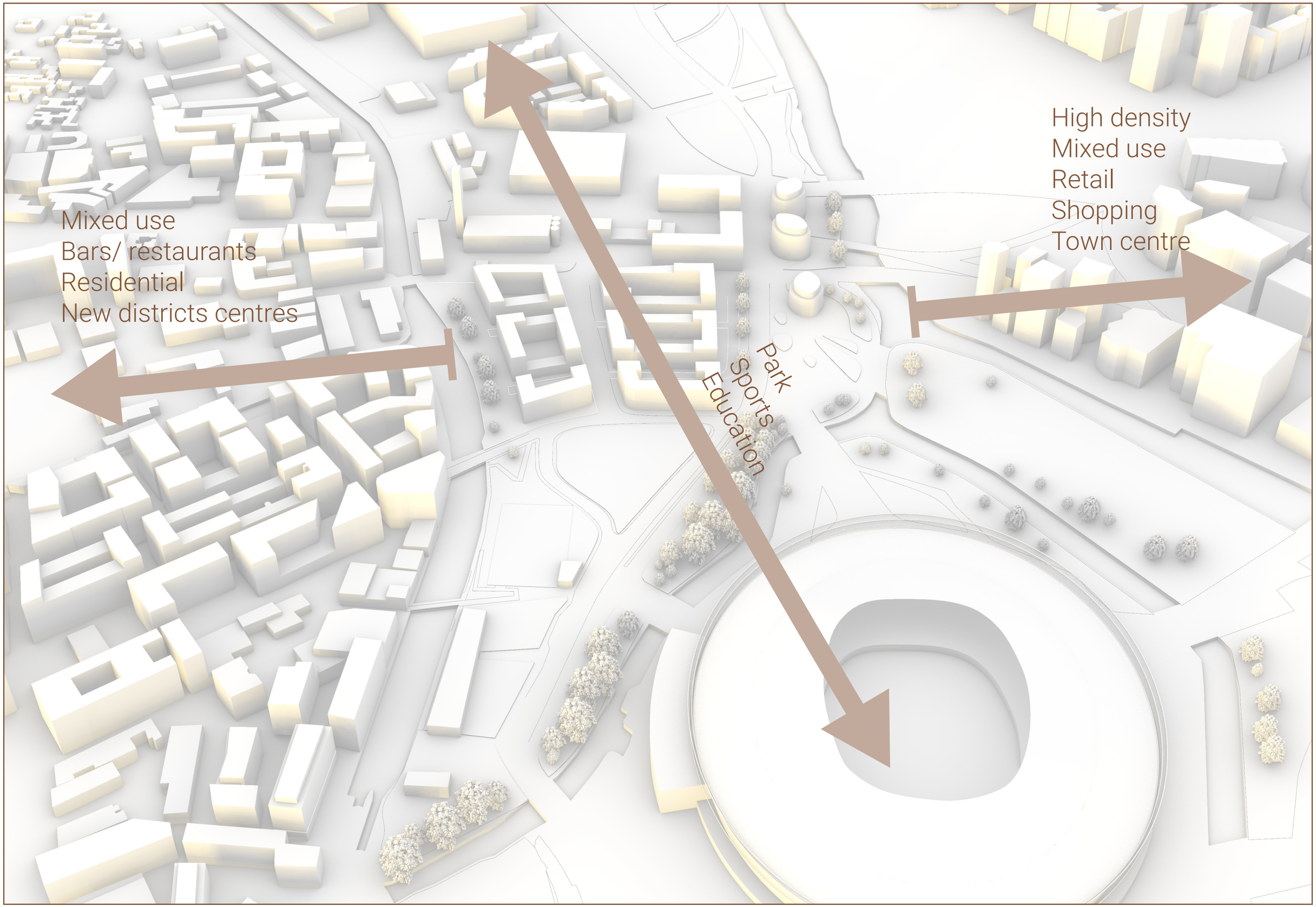
Potentially new residences

RIVER LEA

RIVER LEA

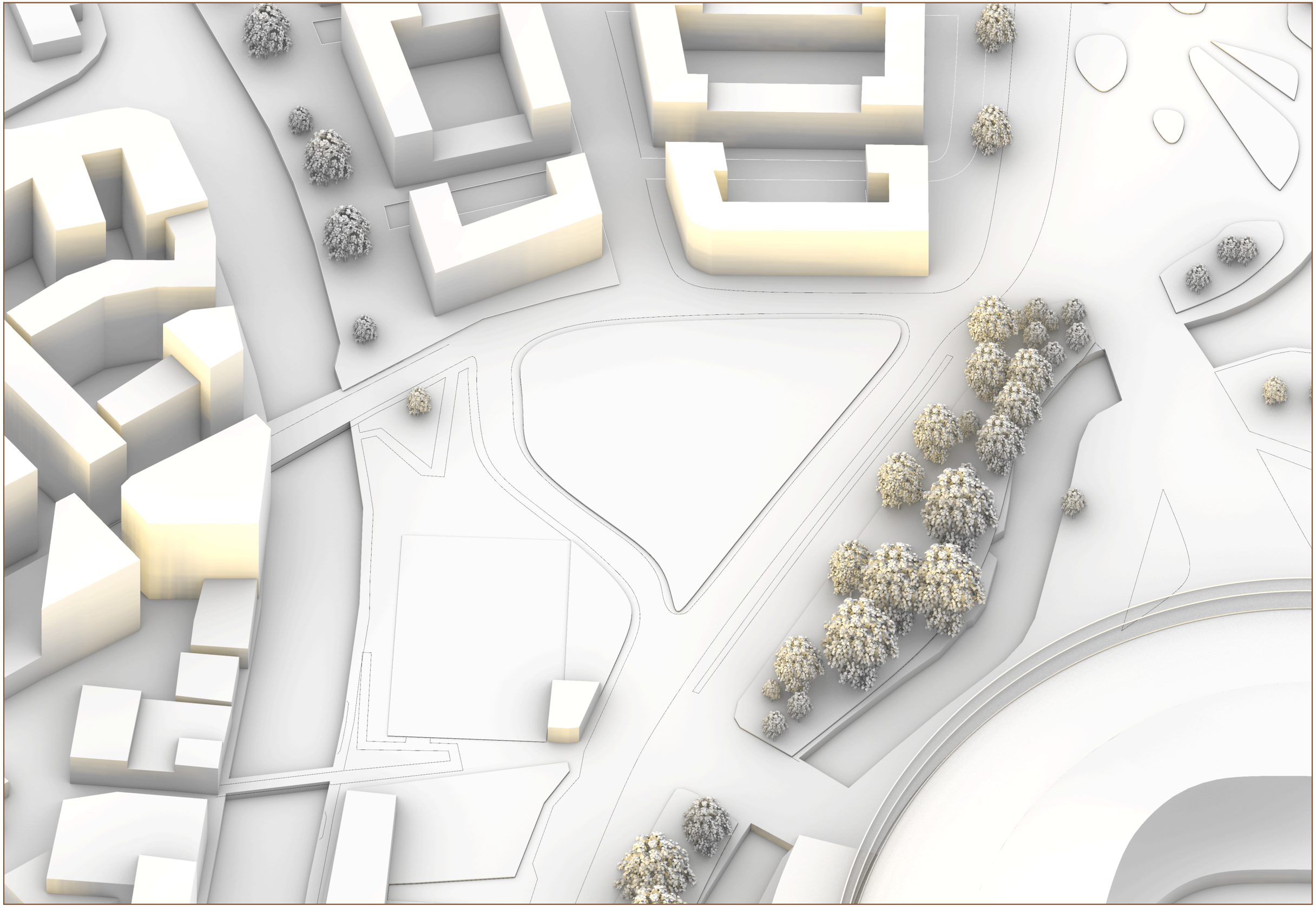
CITY MILL RIVER

WATERWORKS RIVER

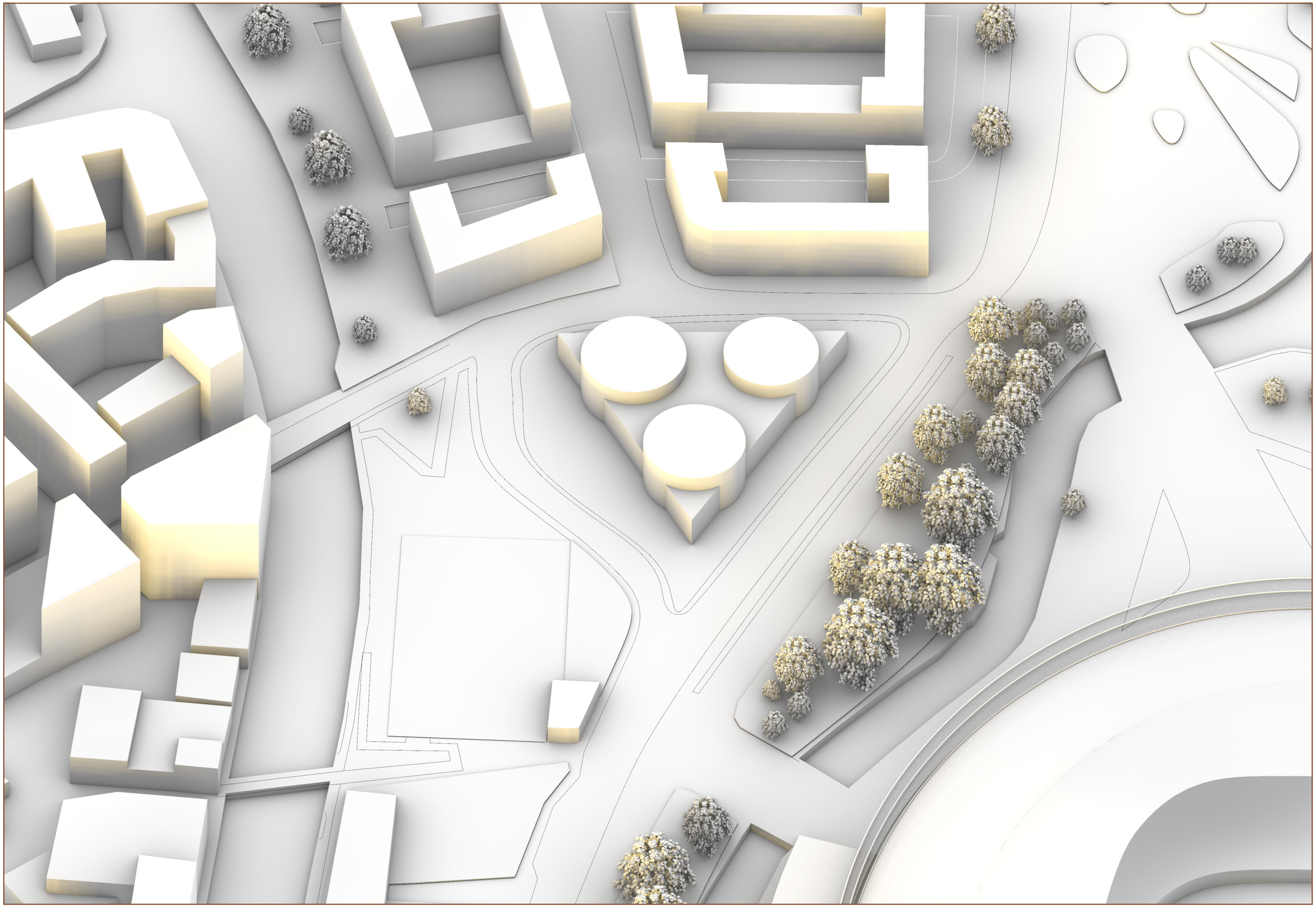

Mixed use
Bars/ restaurants
Residential
New districts centres
Park
Sports
Education
High density
Mixed use
Retail
Shopping
Town centre


Learn
Eat
Share
Cook


Library
Exhibition/entertain-
ment hall
Food hall
Cooking studios

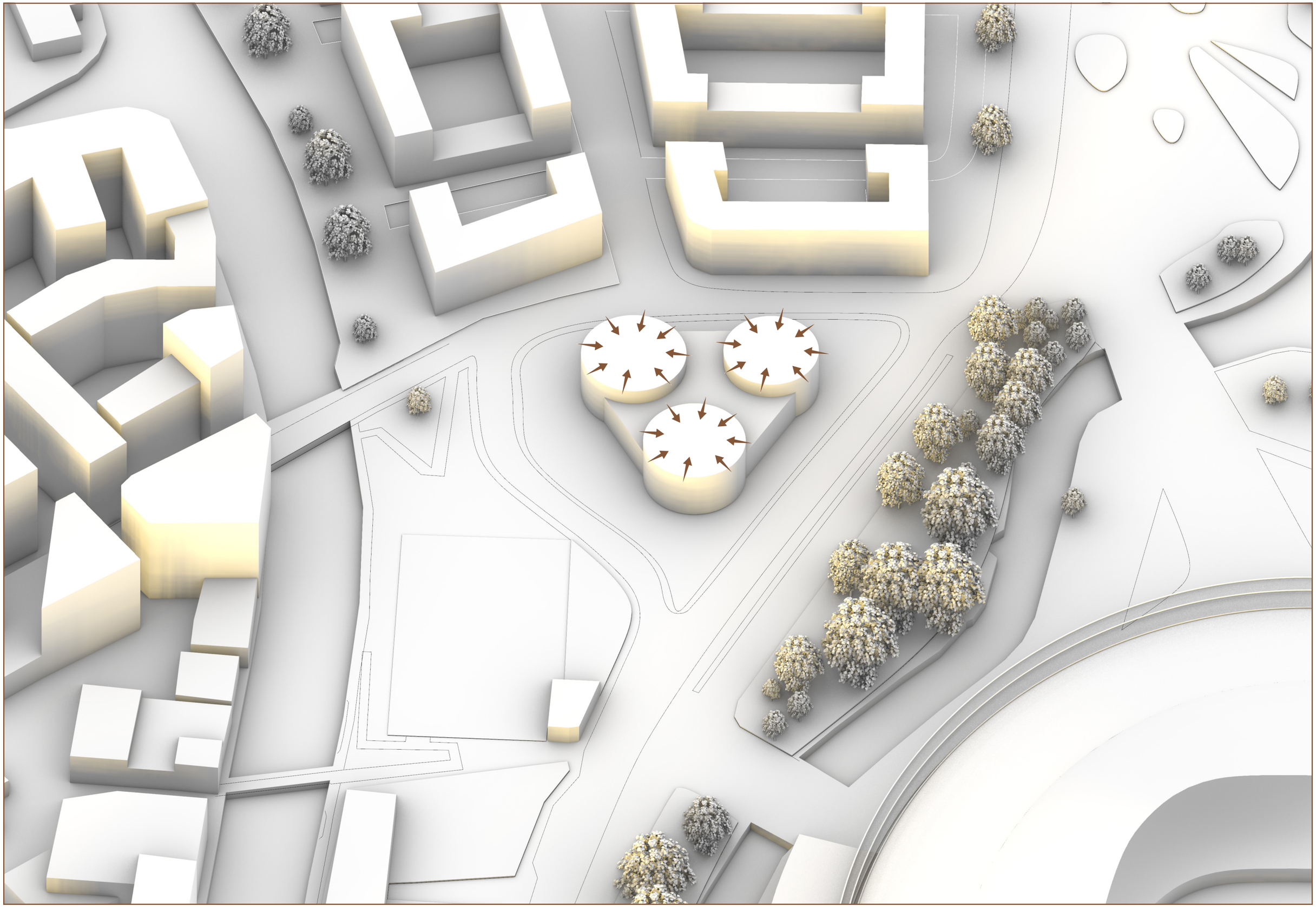


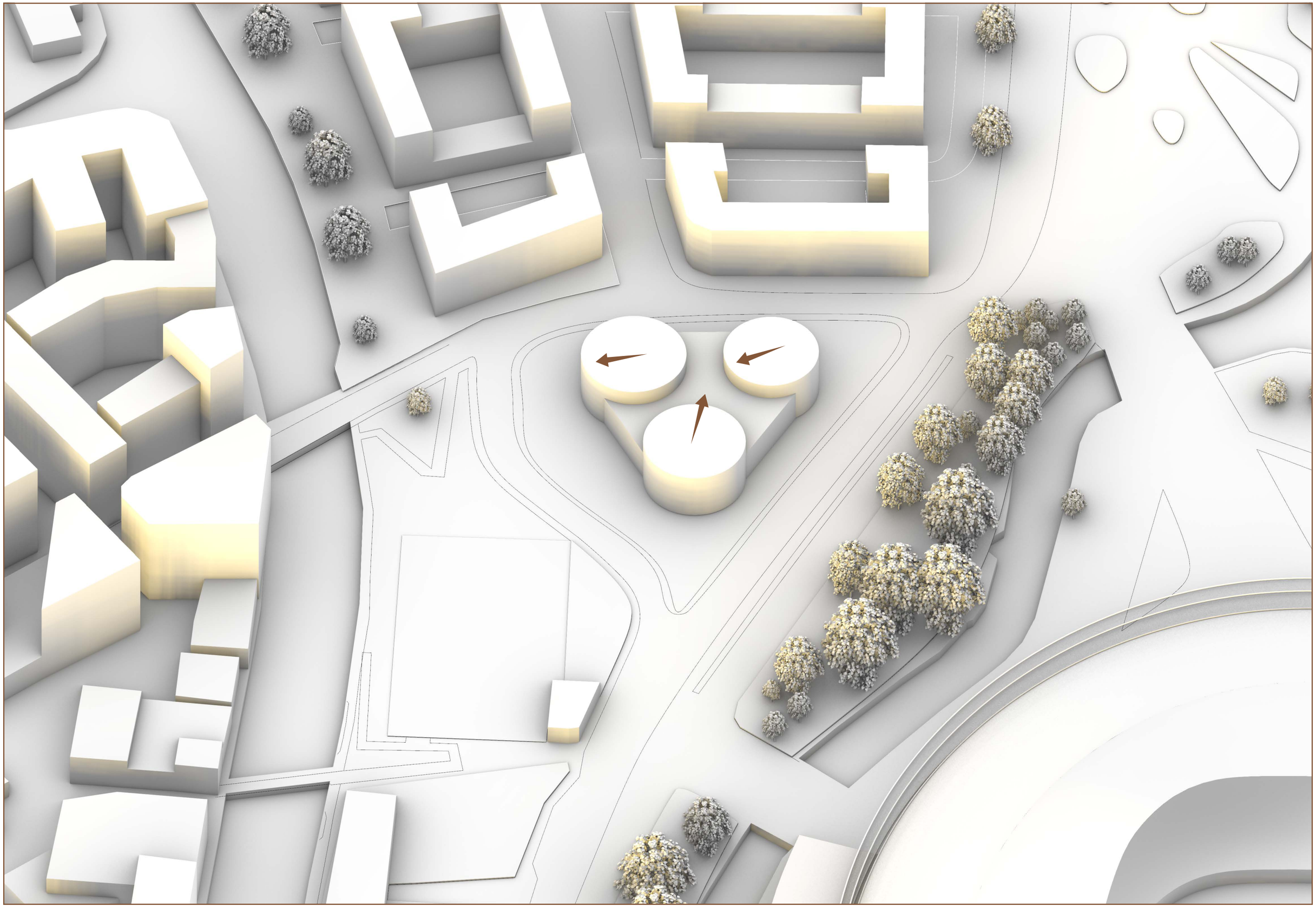






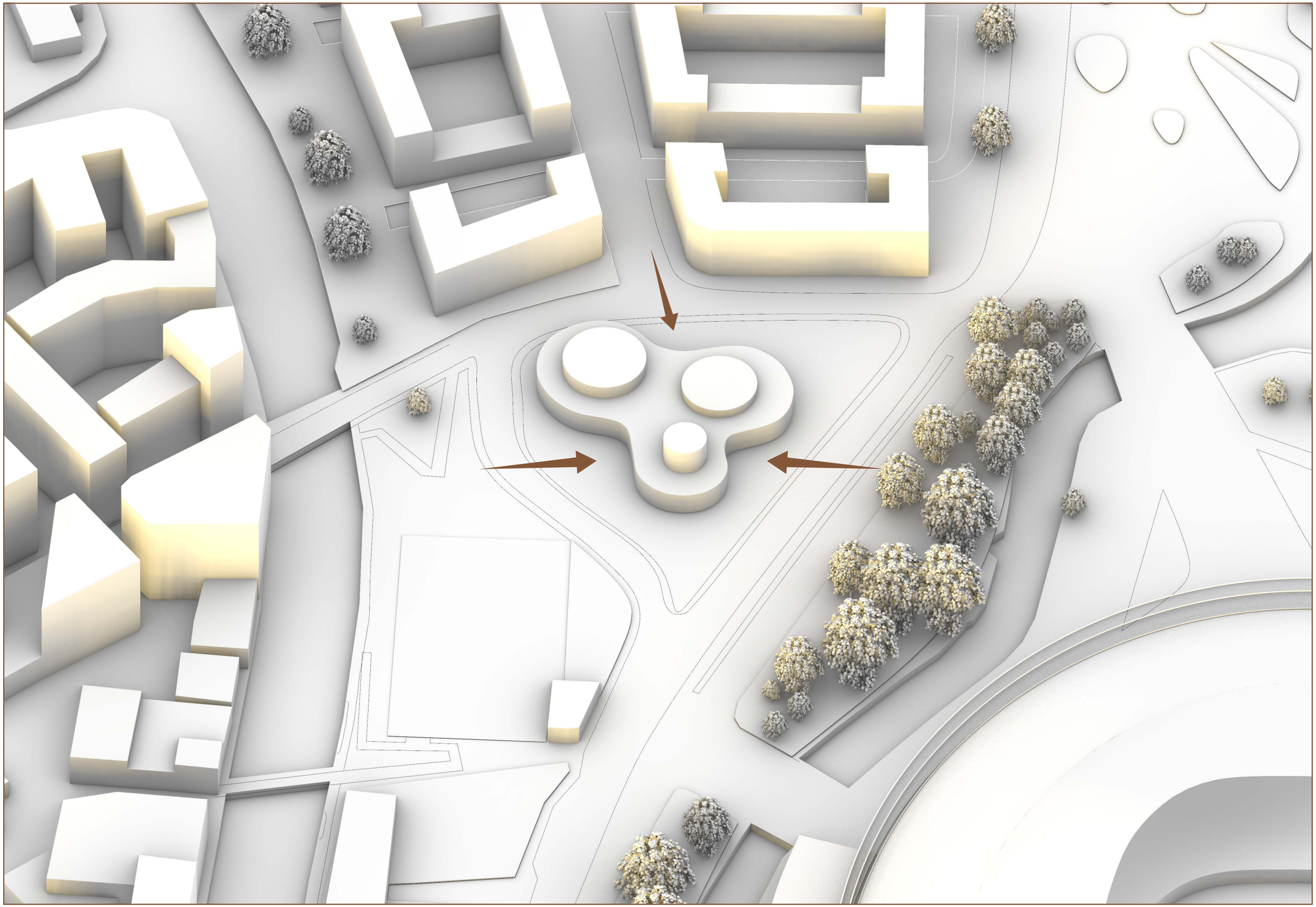


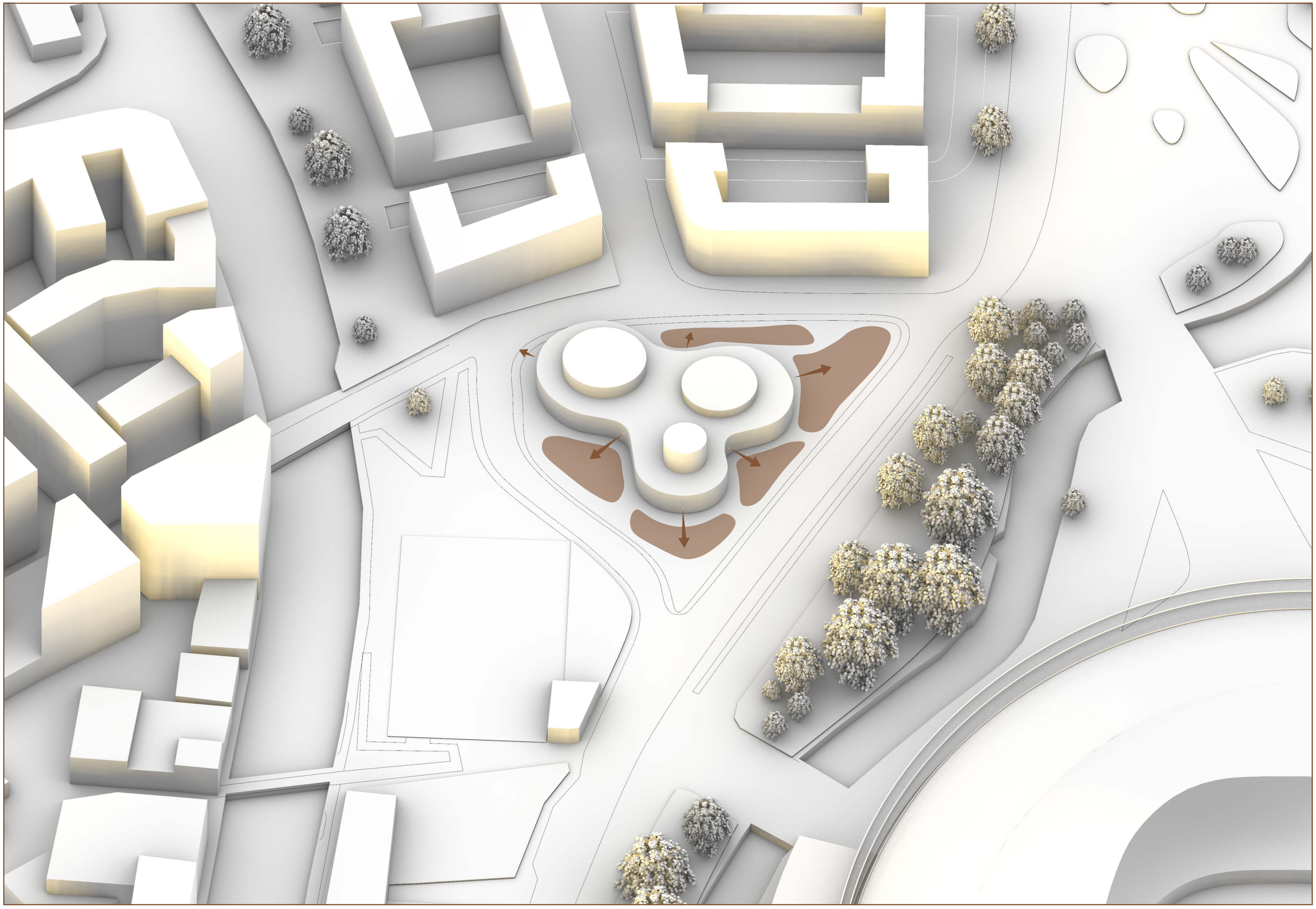


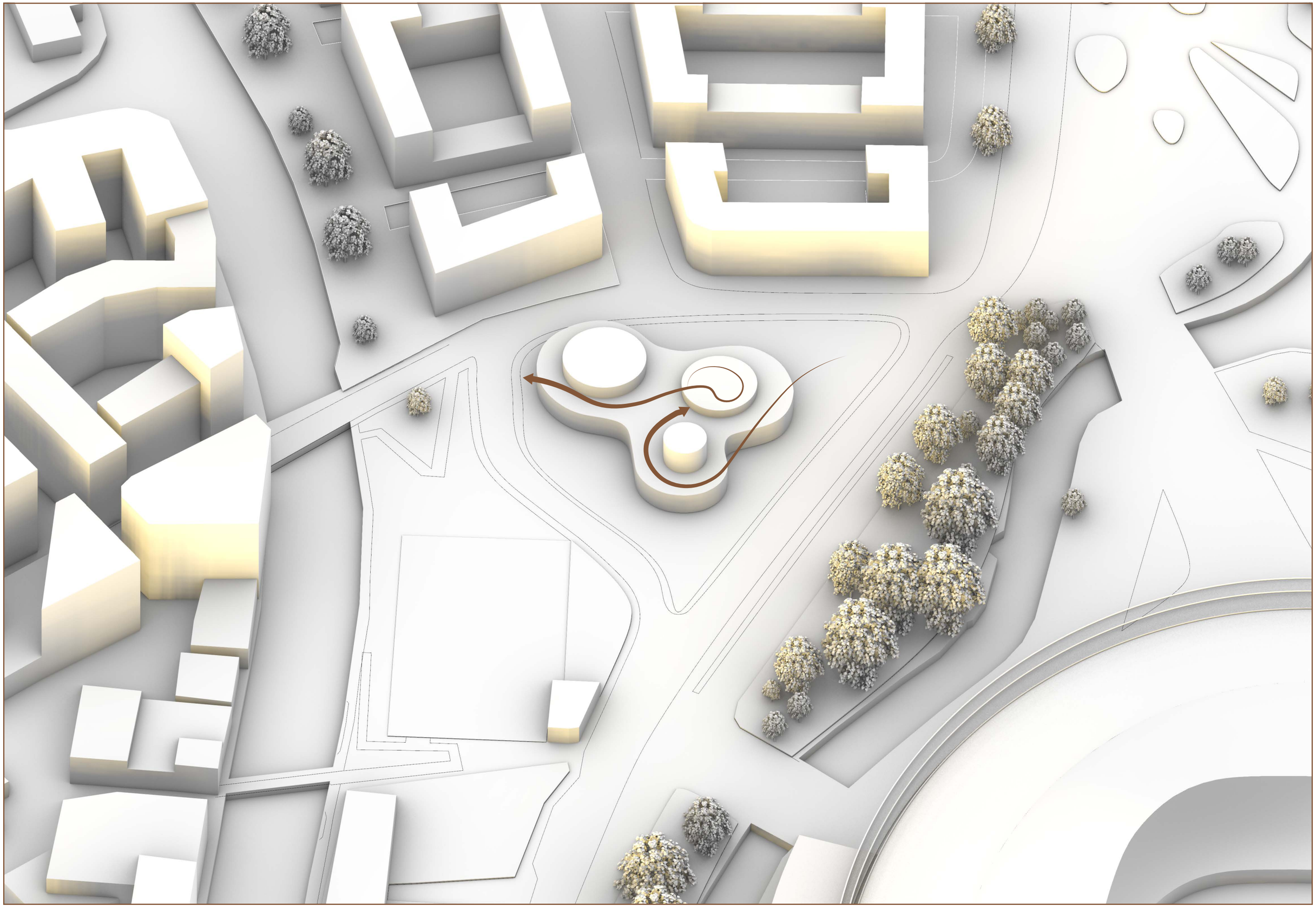


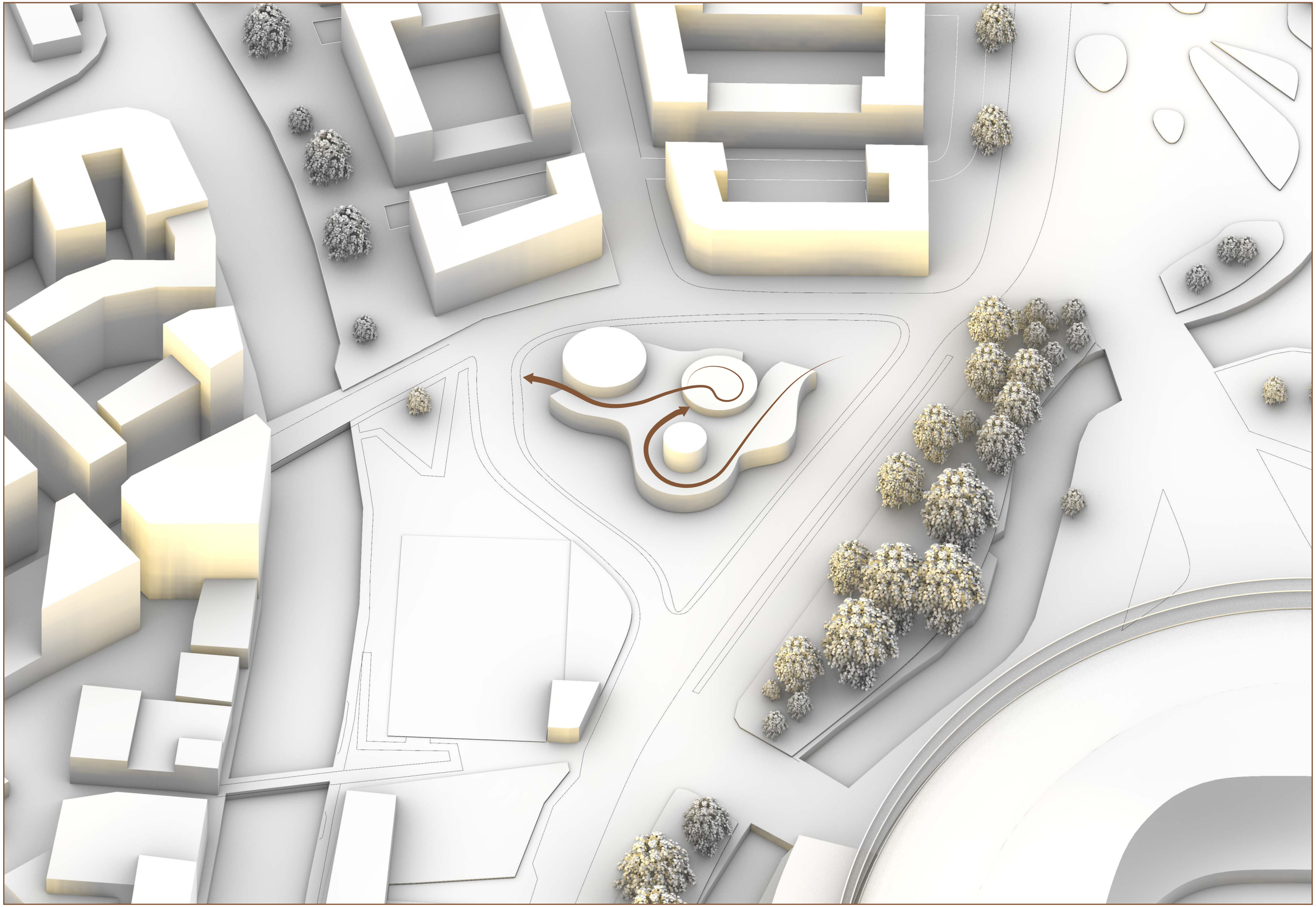






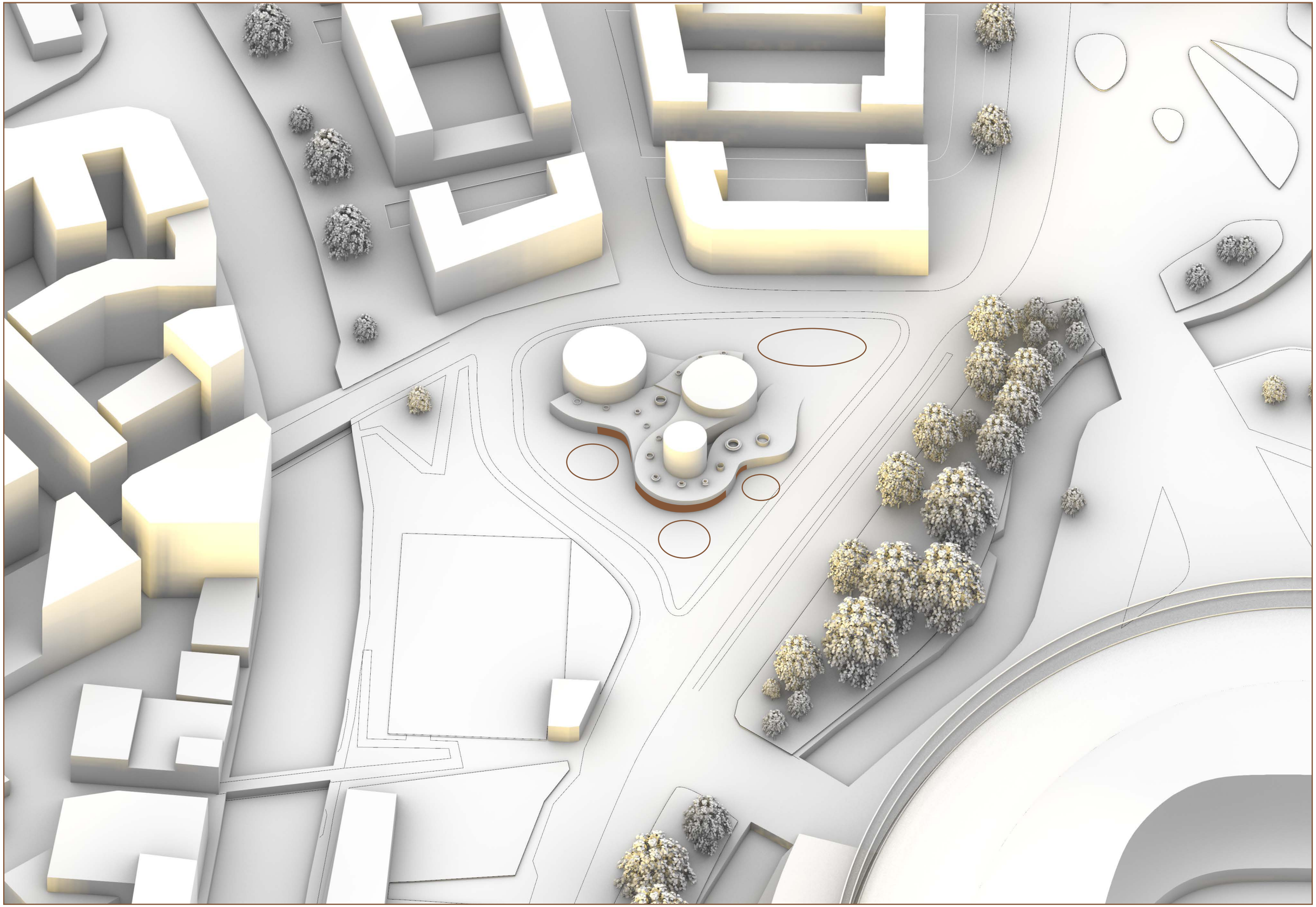


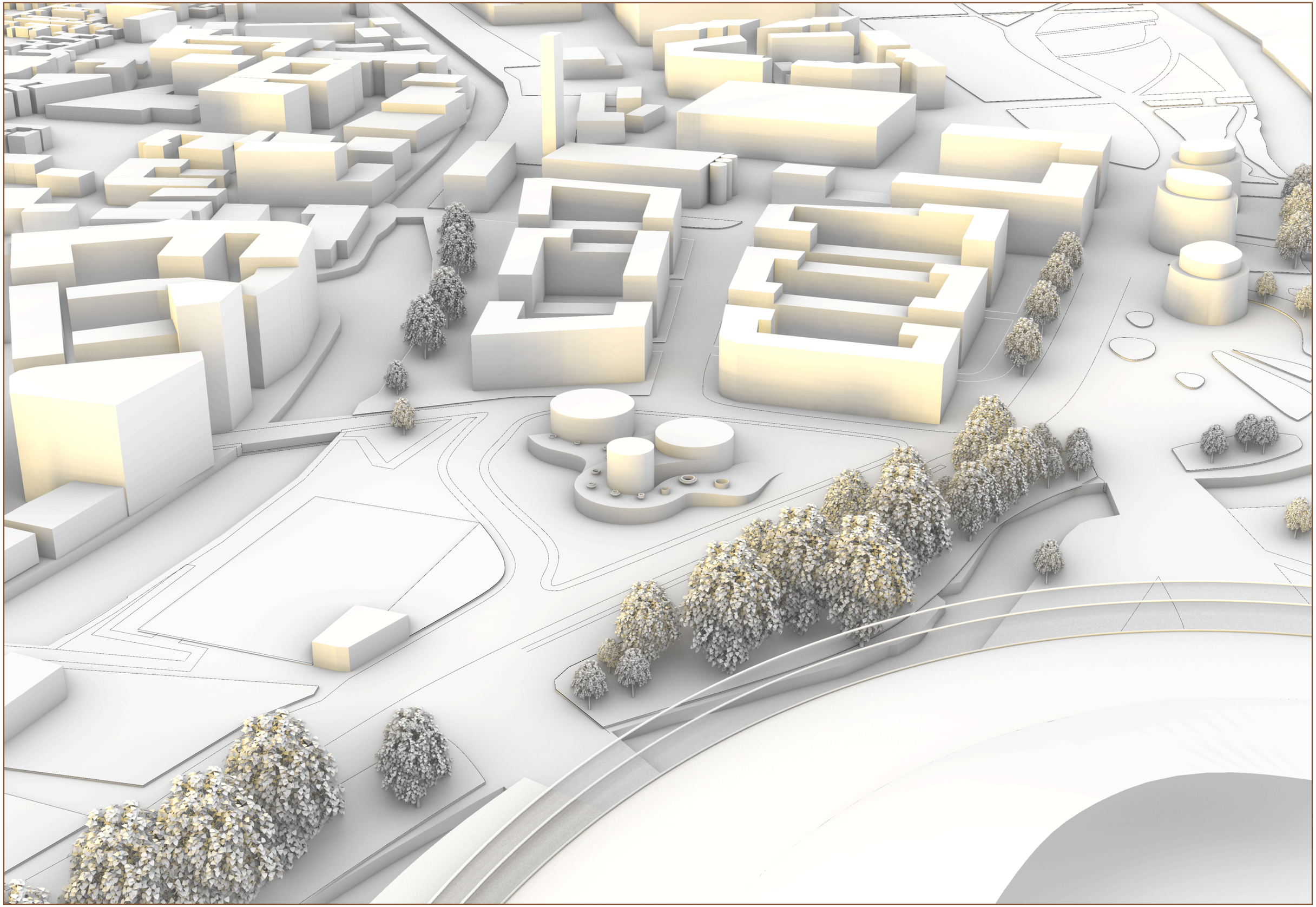


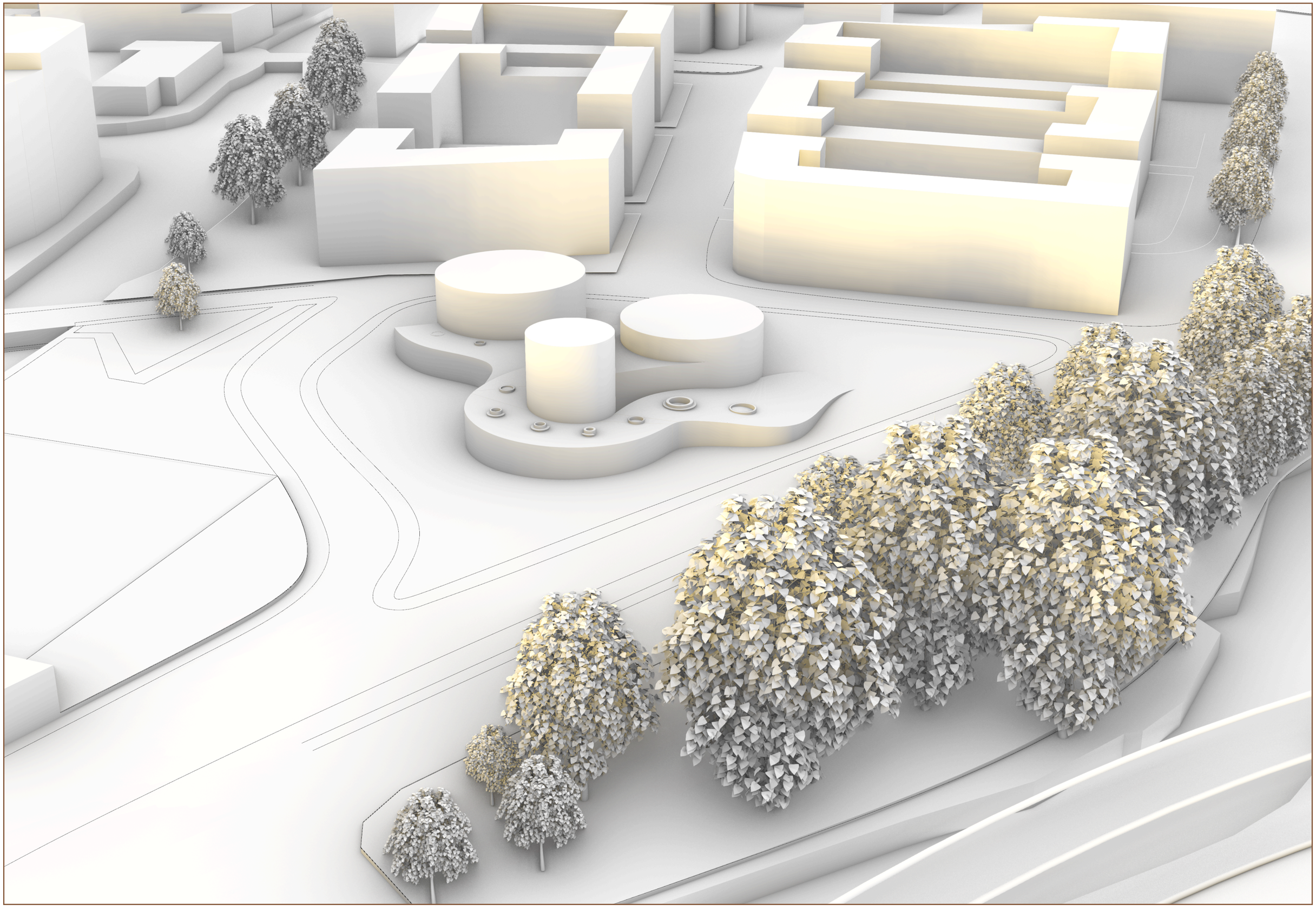


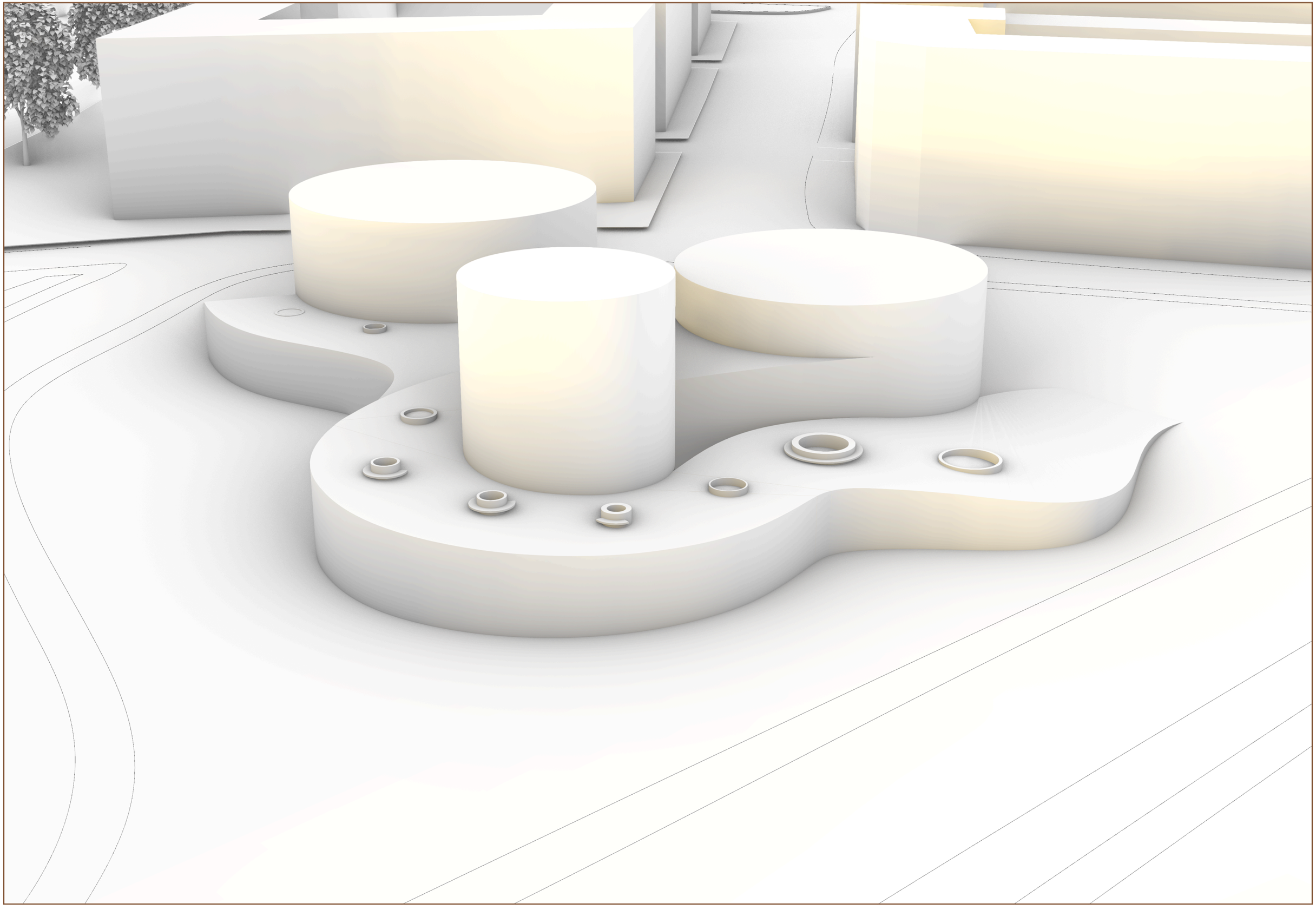


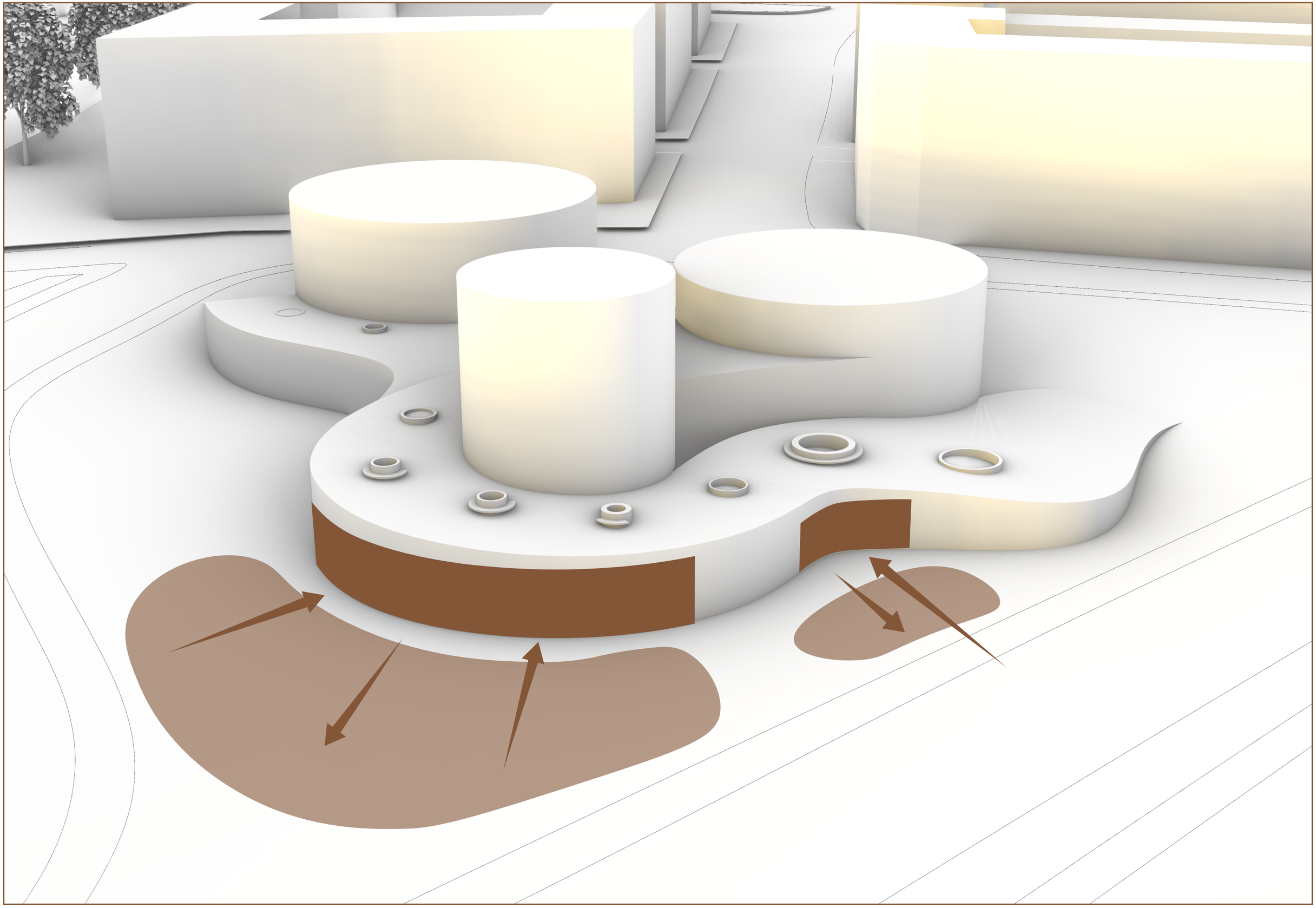


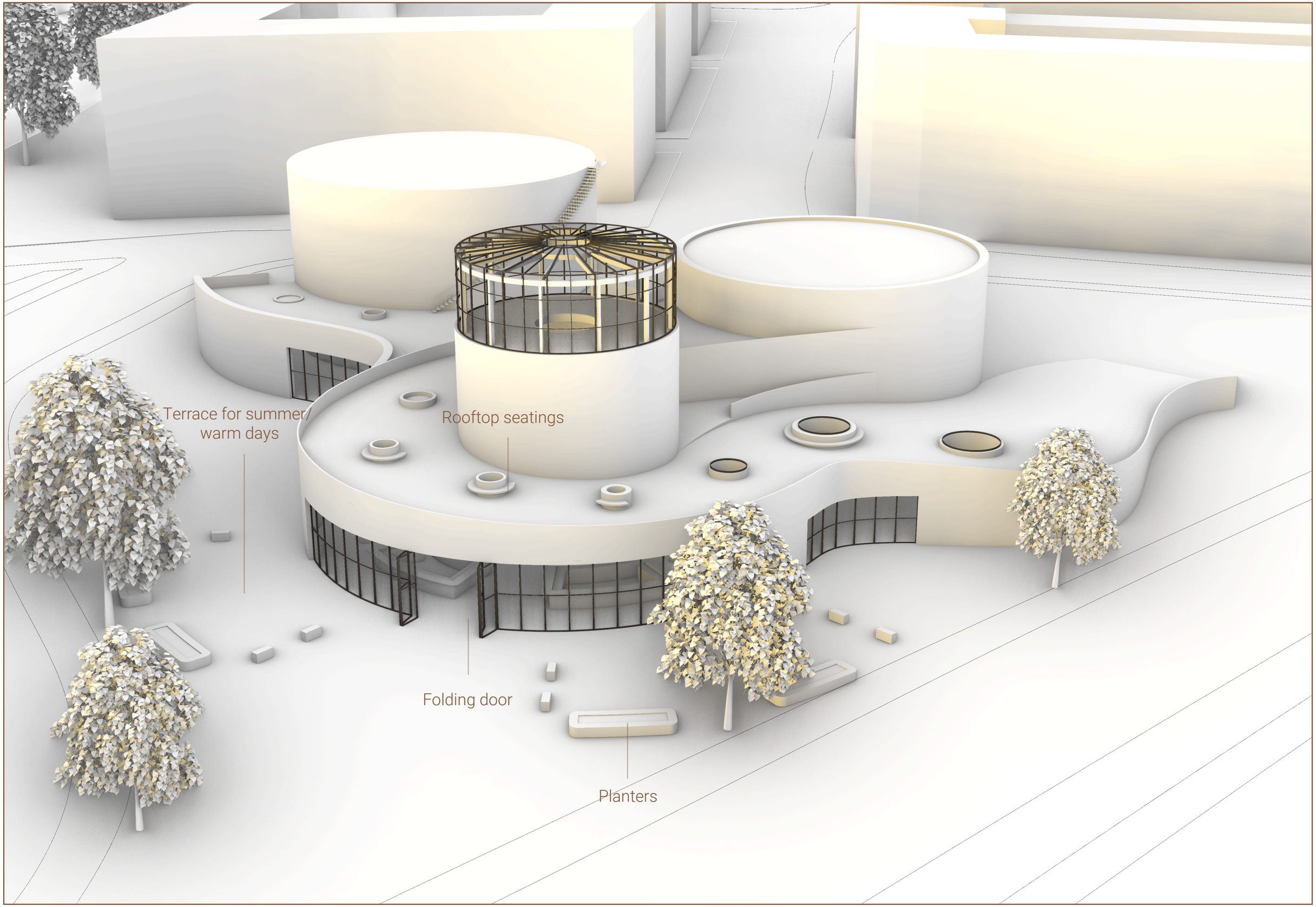


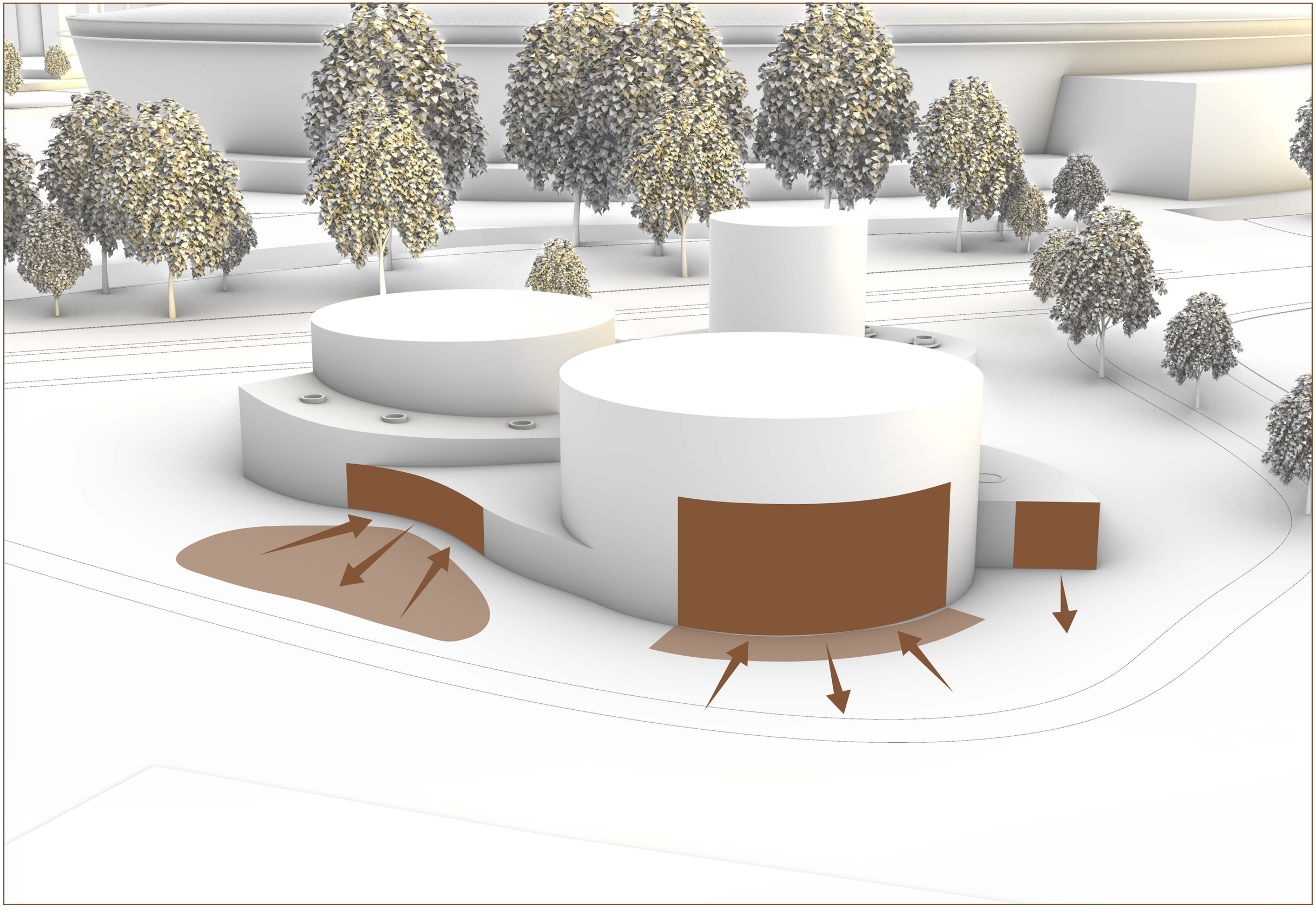




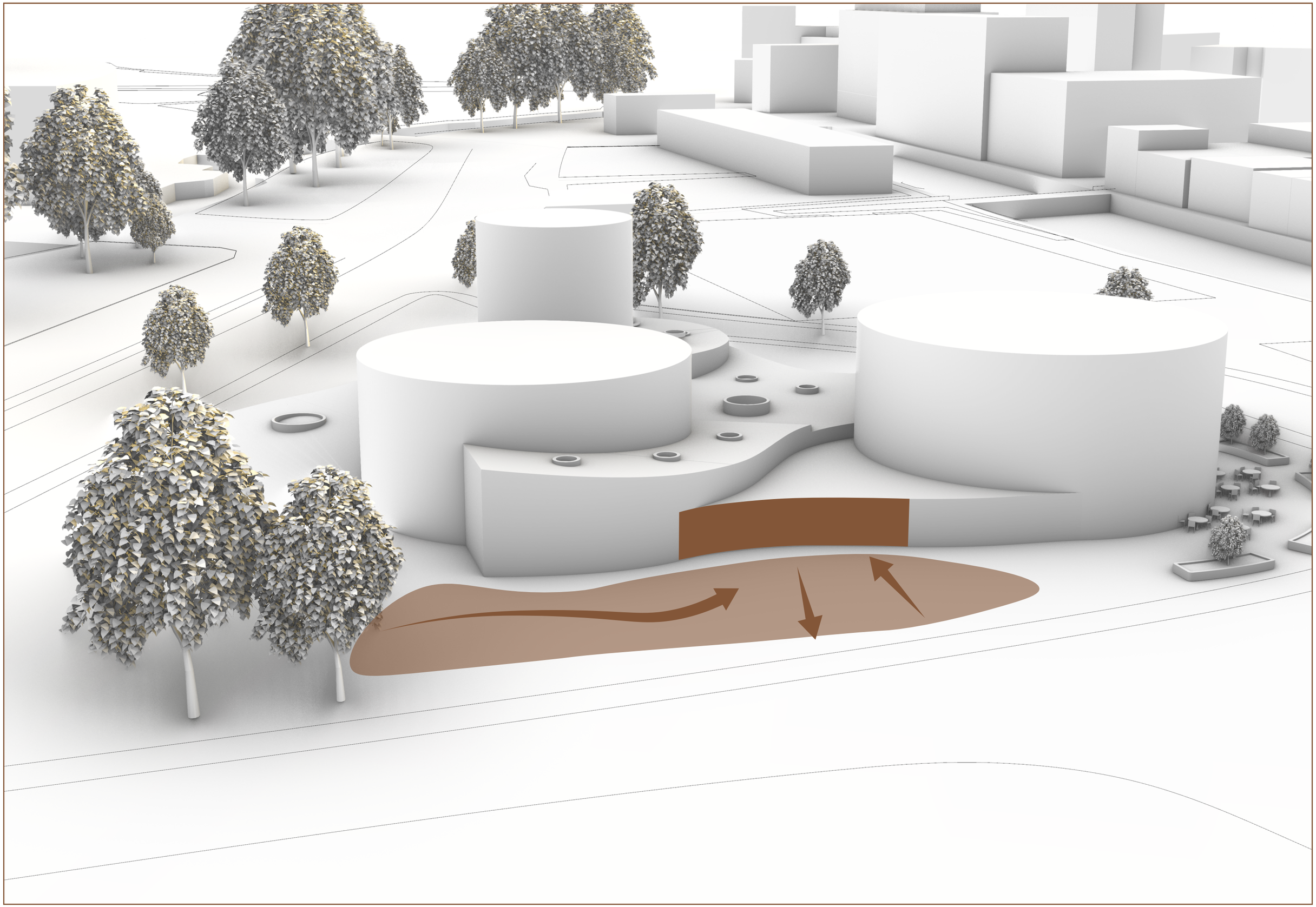


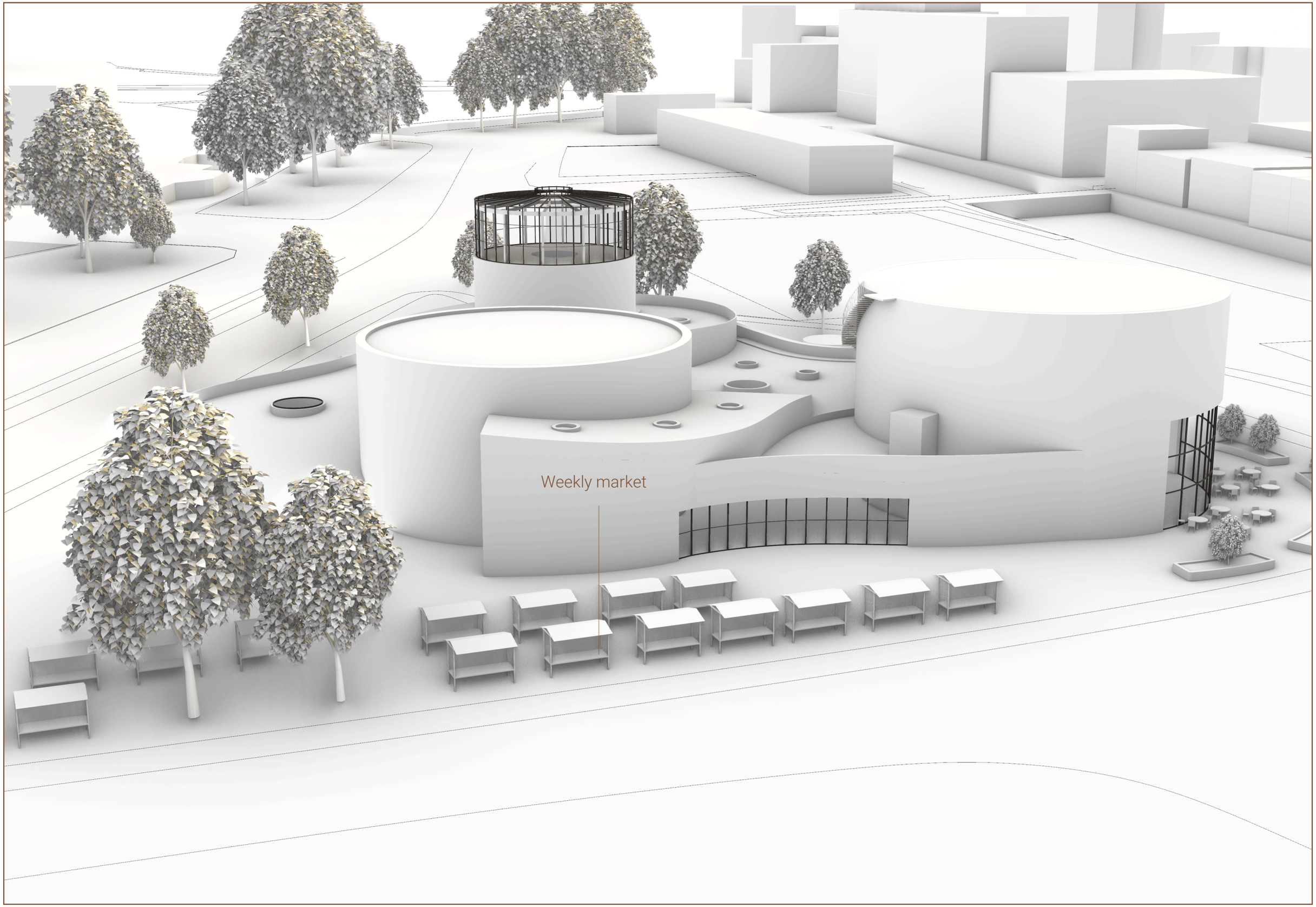


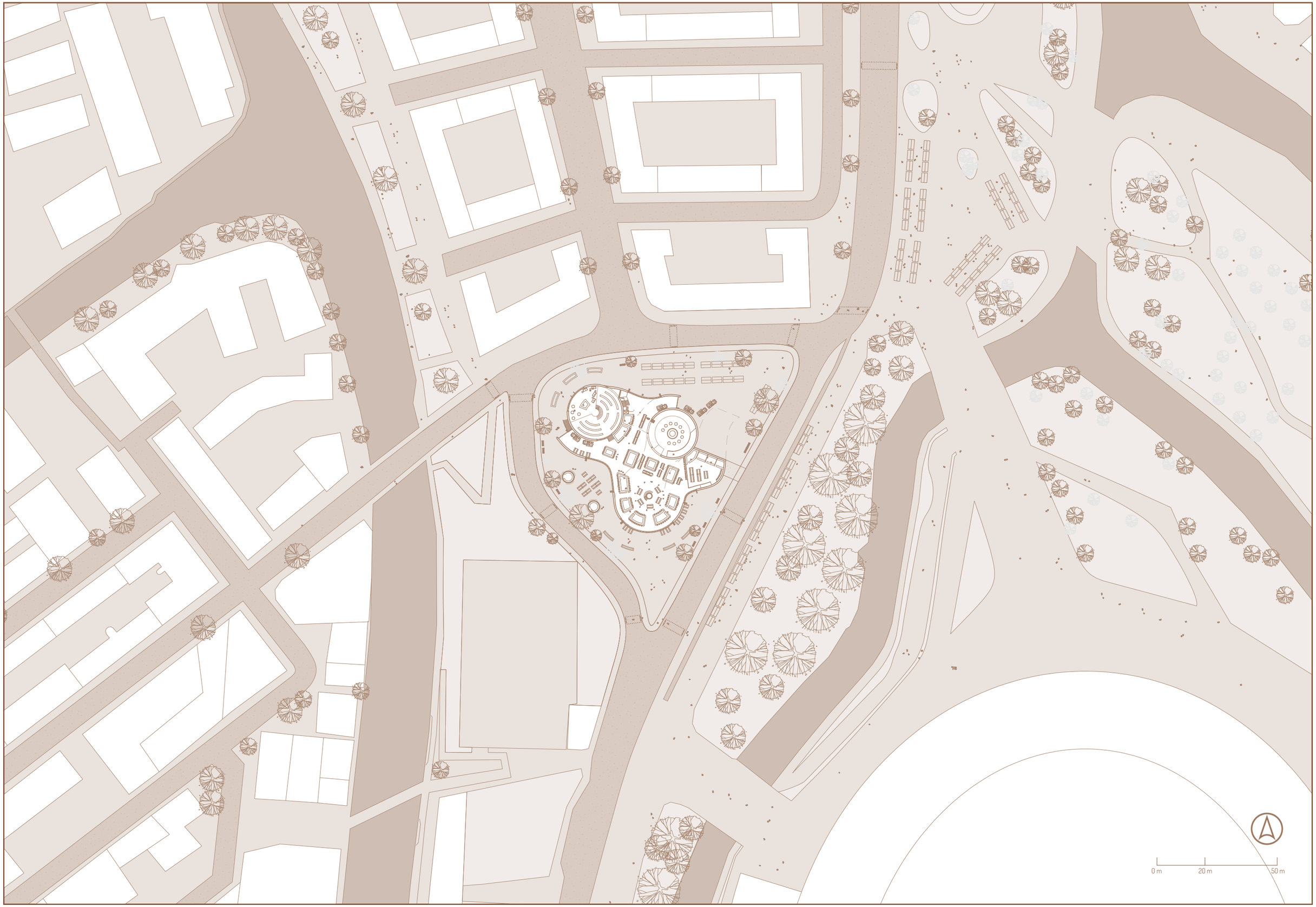

Terrace for summer/
warm days
Rooftop seatings
Folding door
Planters



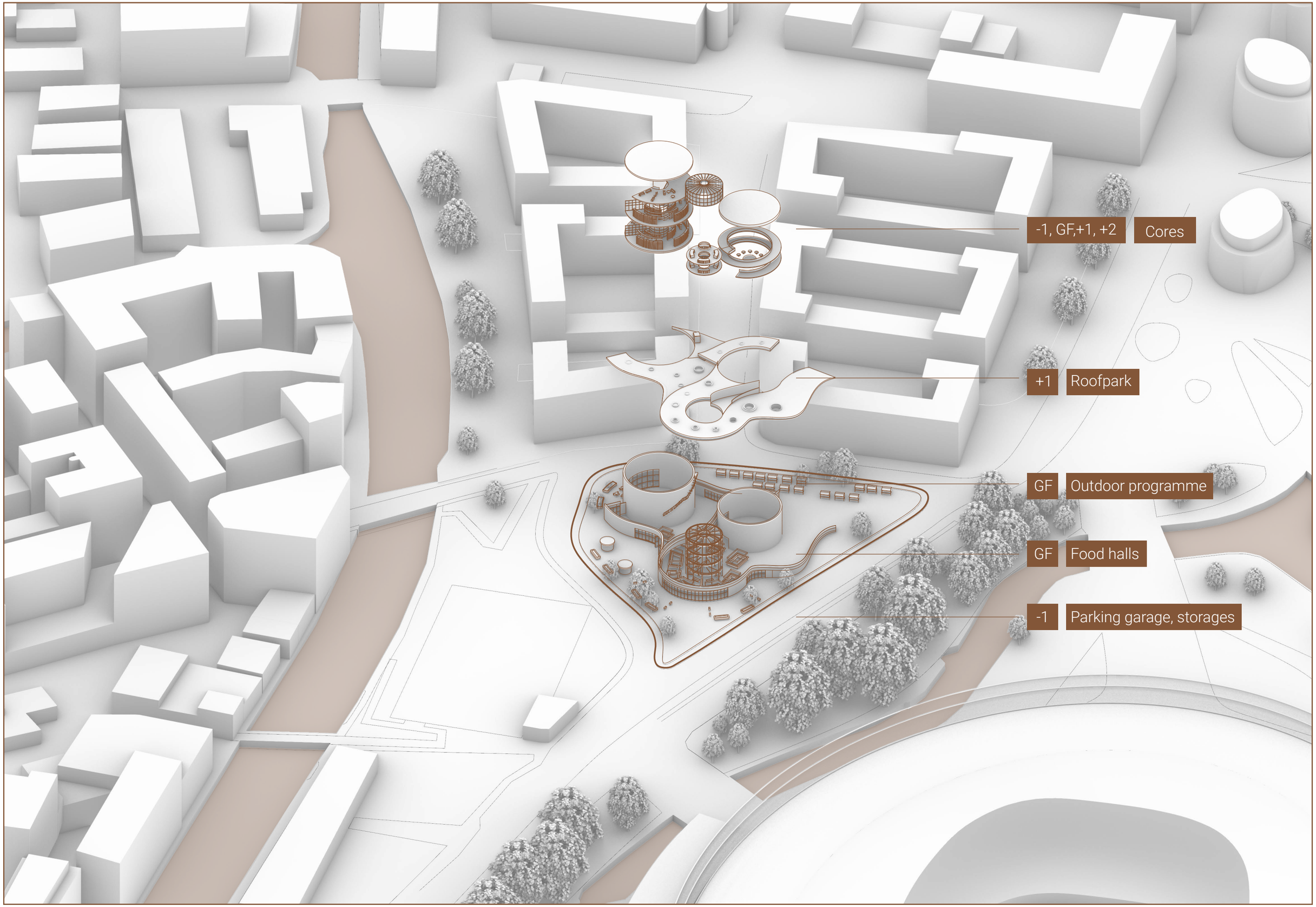

Outdoor cafeteria terrace




Weekly market


0 m
20 m
50 m


0 m
20 m
50 m


-1, GF,+1, +2
Cores
+1
Roofpark
GF
Outdoor programme
GF
Food halls
-1
Parking garage, storages







Building materials

Brick







Building materials and park objects/furniture

Weathered steel





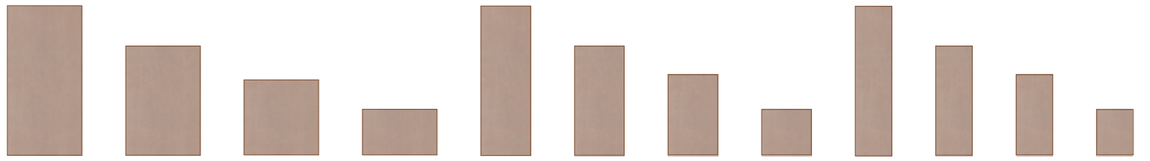


Parkland paths and concourses

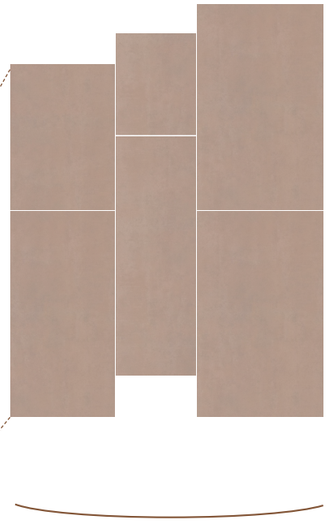
ASP paving (concrete), vegetation, resin bound gravel, asphalt



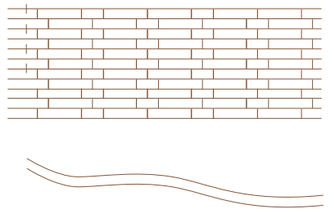
Weathered steel plates measurements



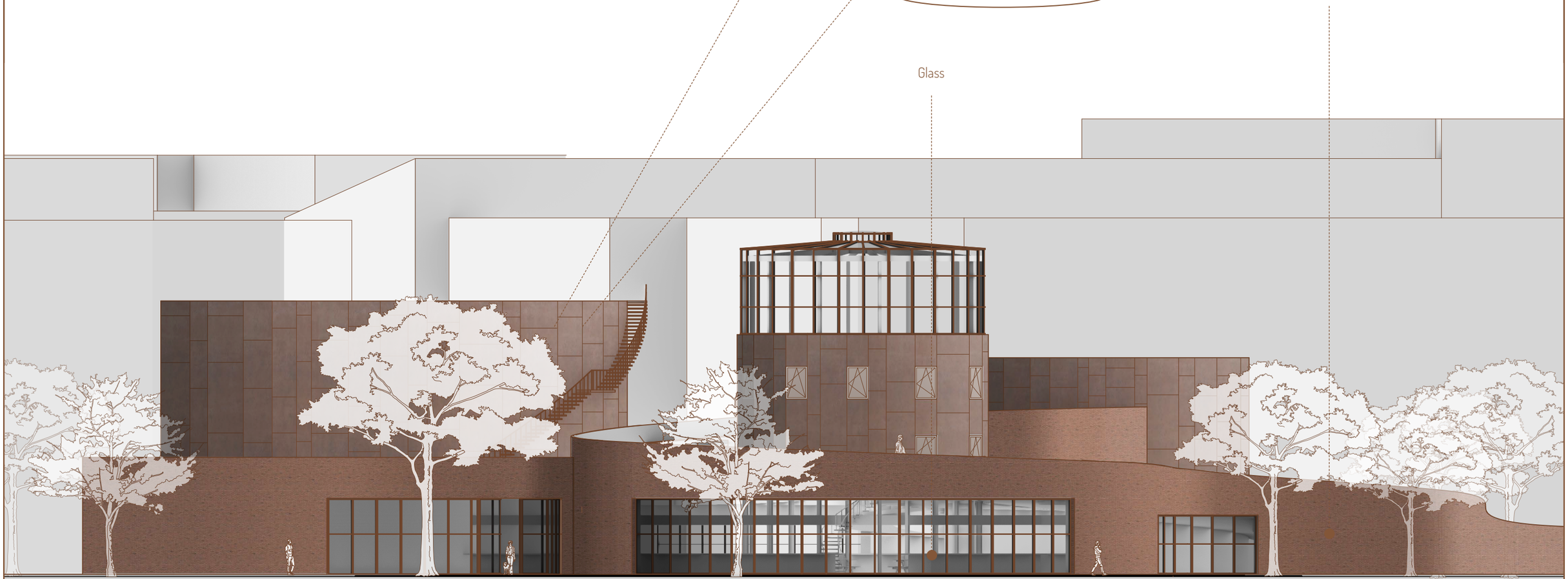
Curved weathered steel



Ketting verband

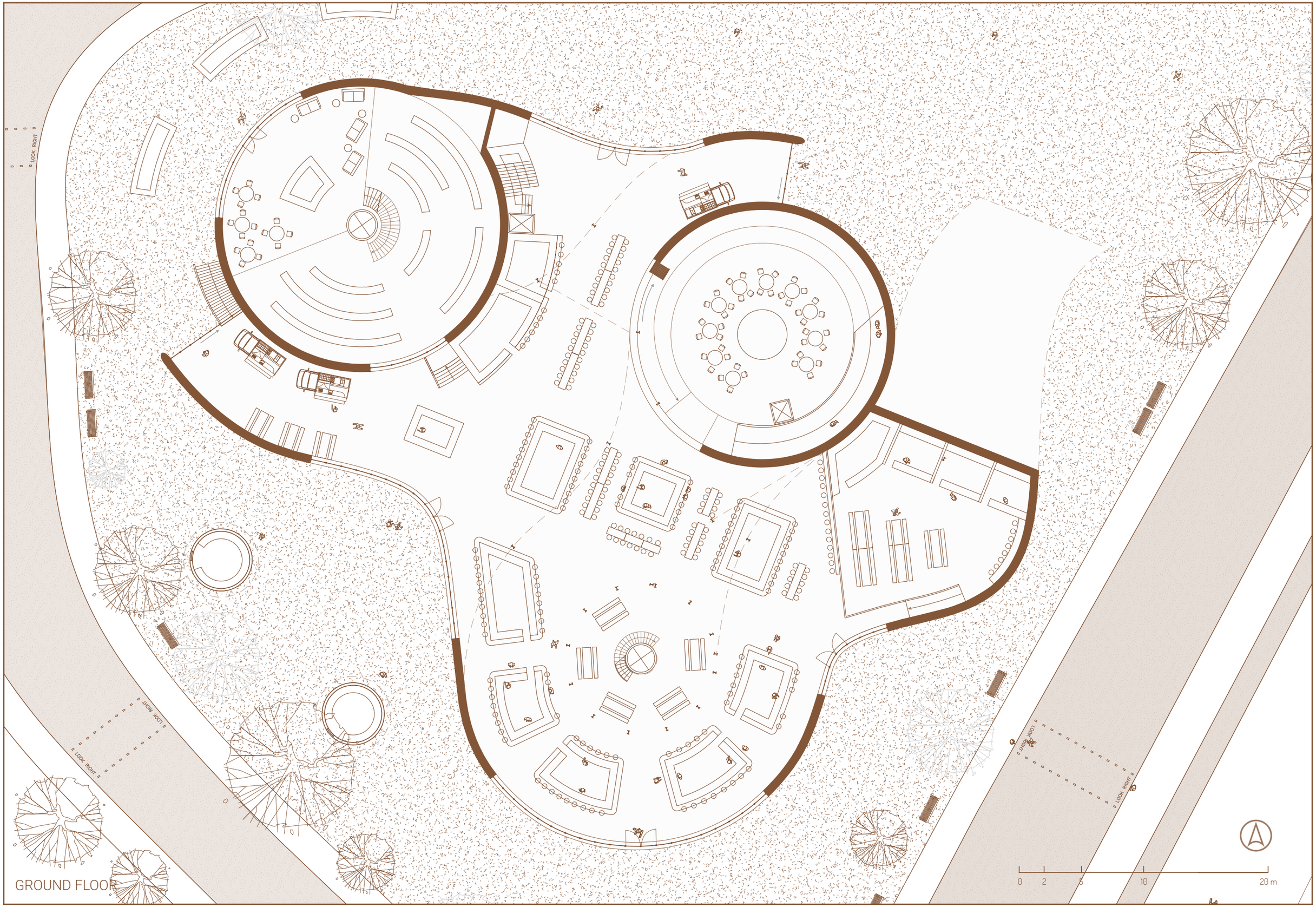


Glass

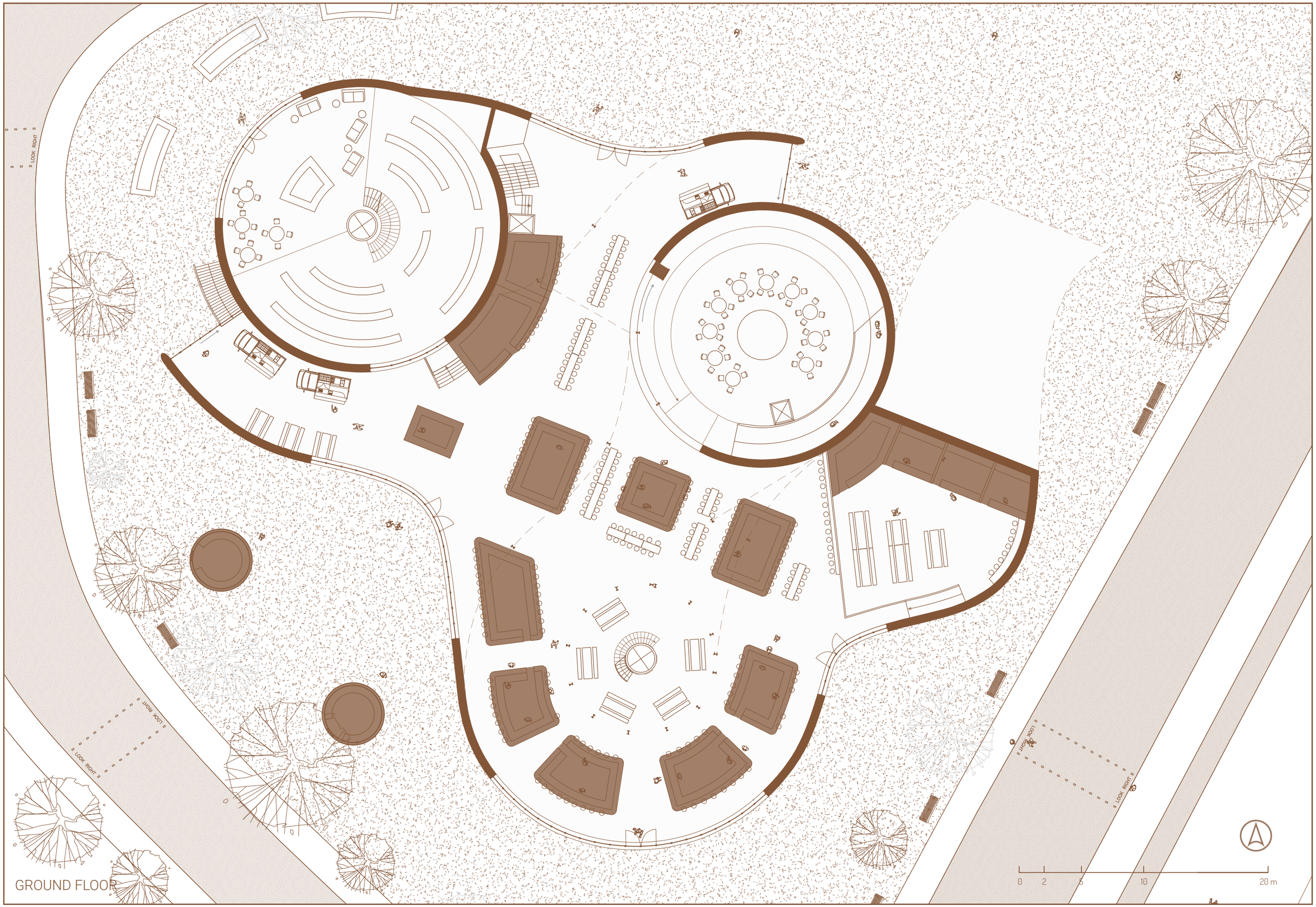


ELEVATION SOUTH

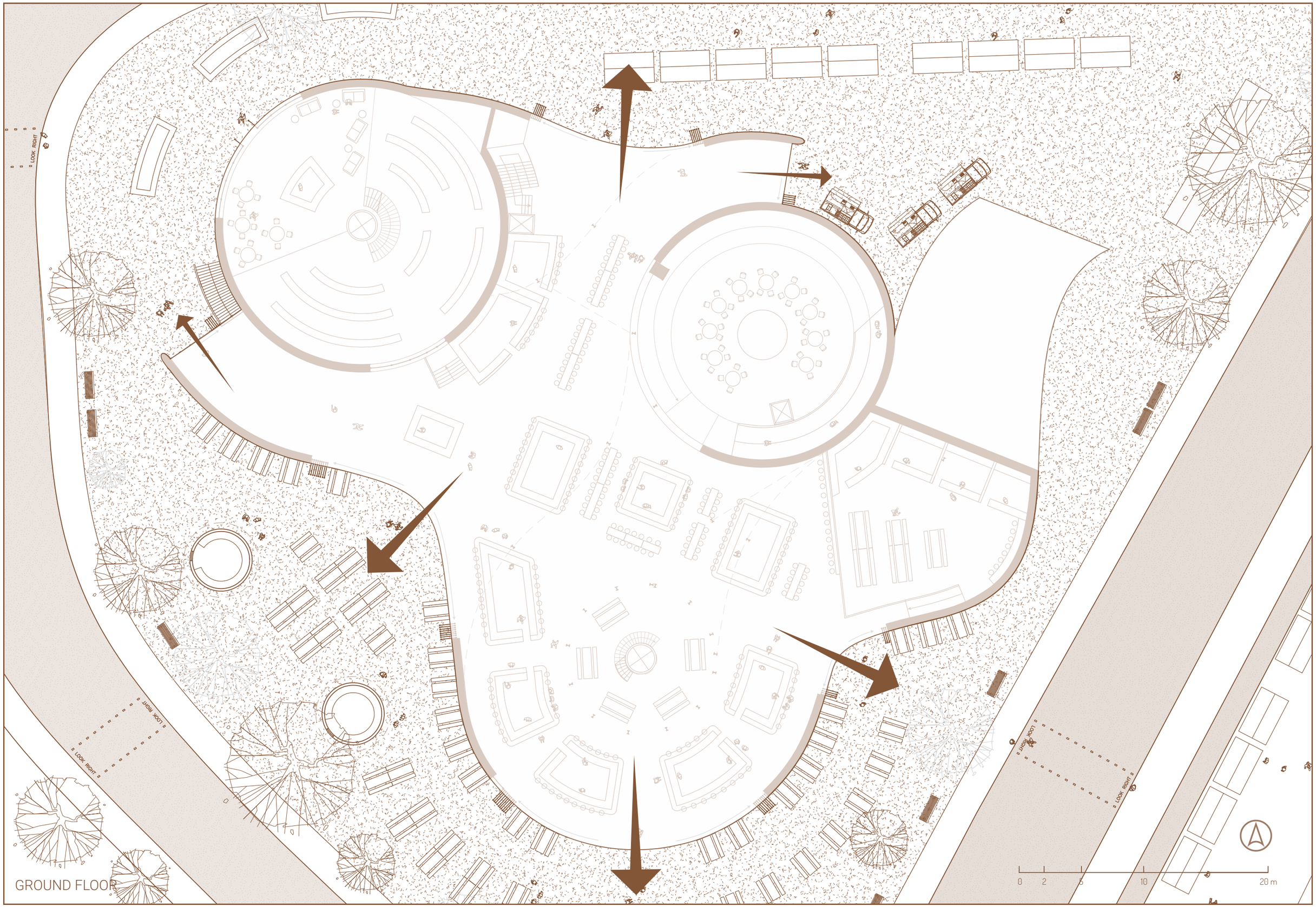
0 2 5 10 20 m



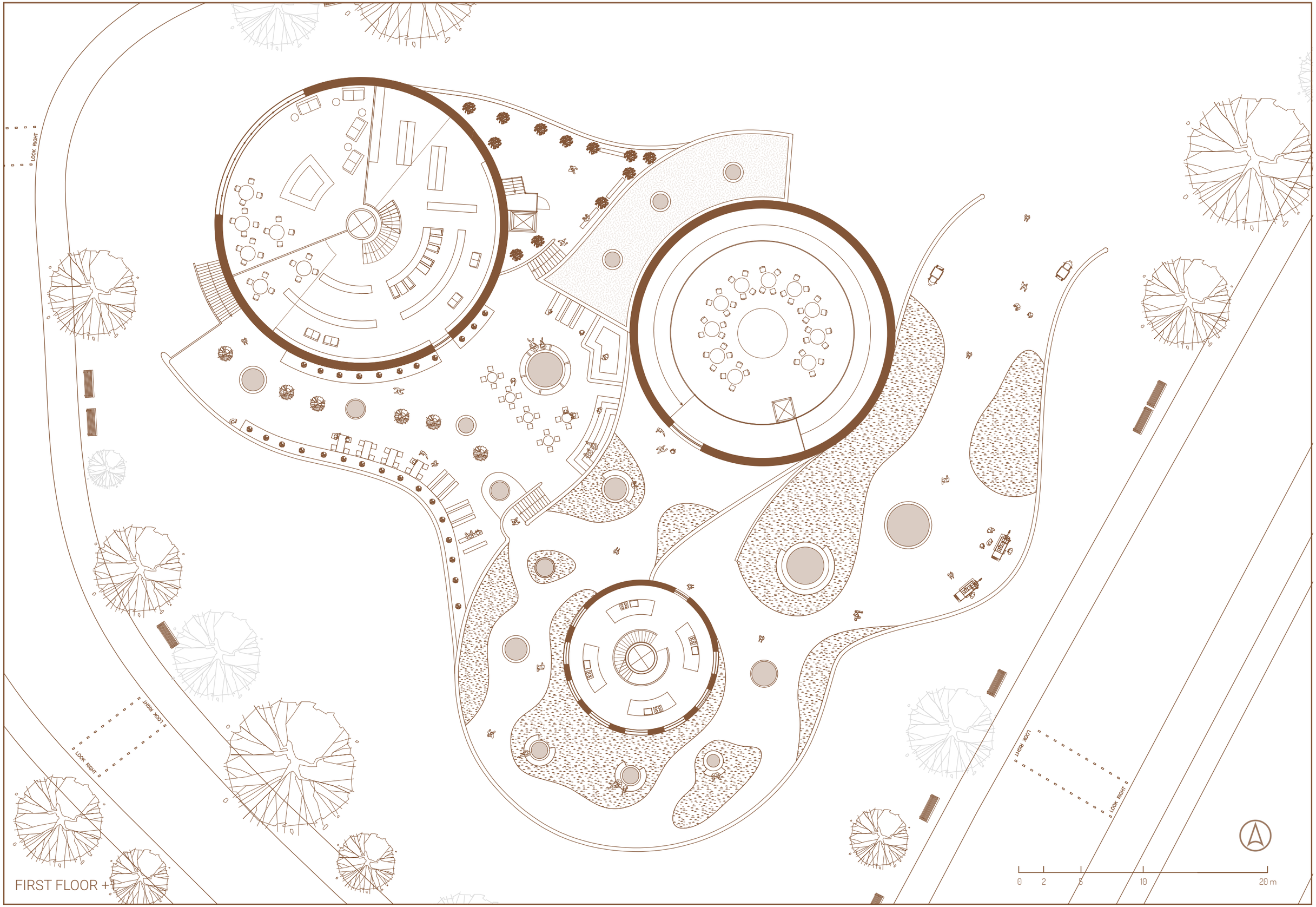
GROUND FLOOR



GROUND FLOOR



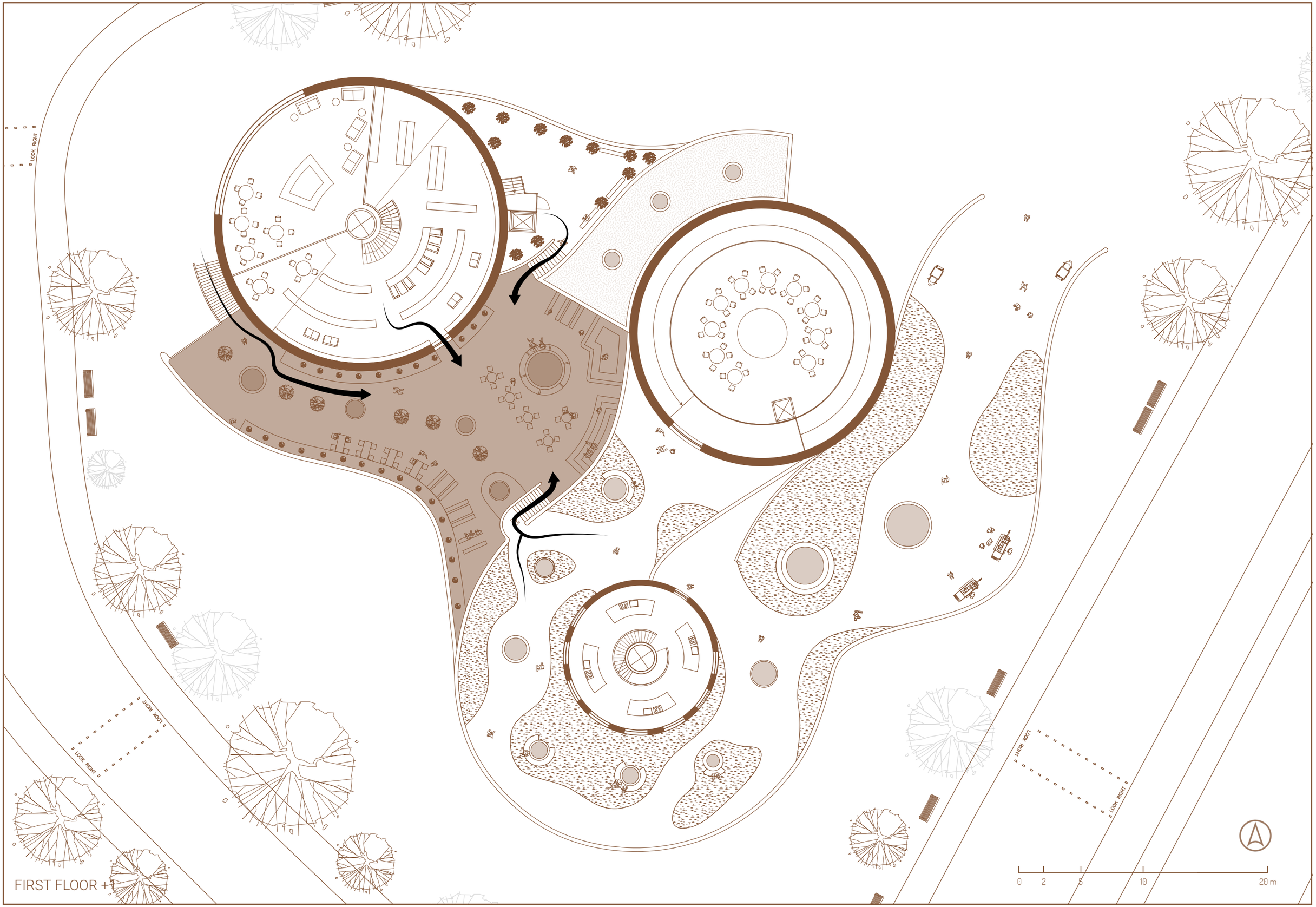
GROUND FLOOR



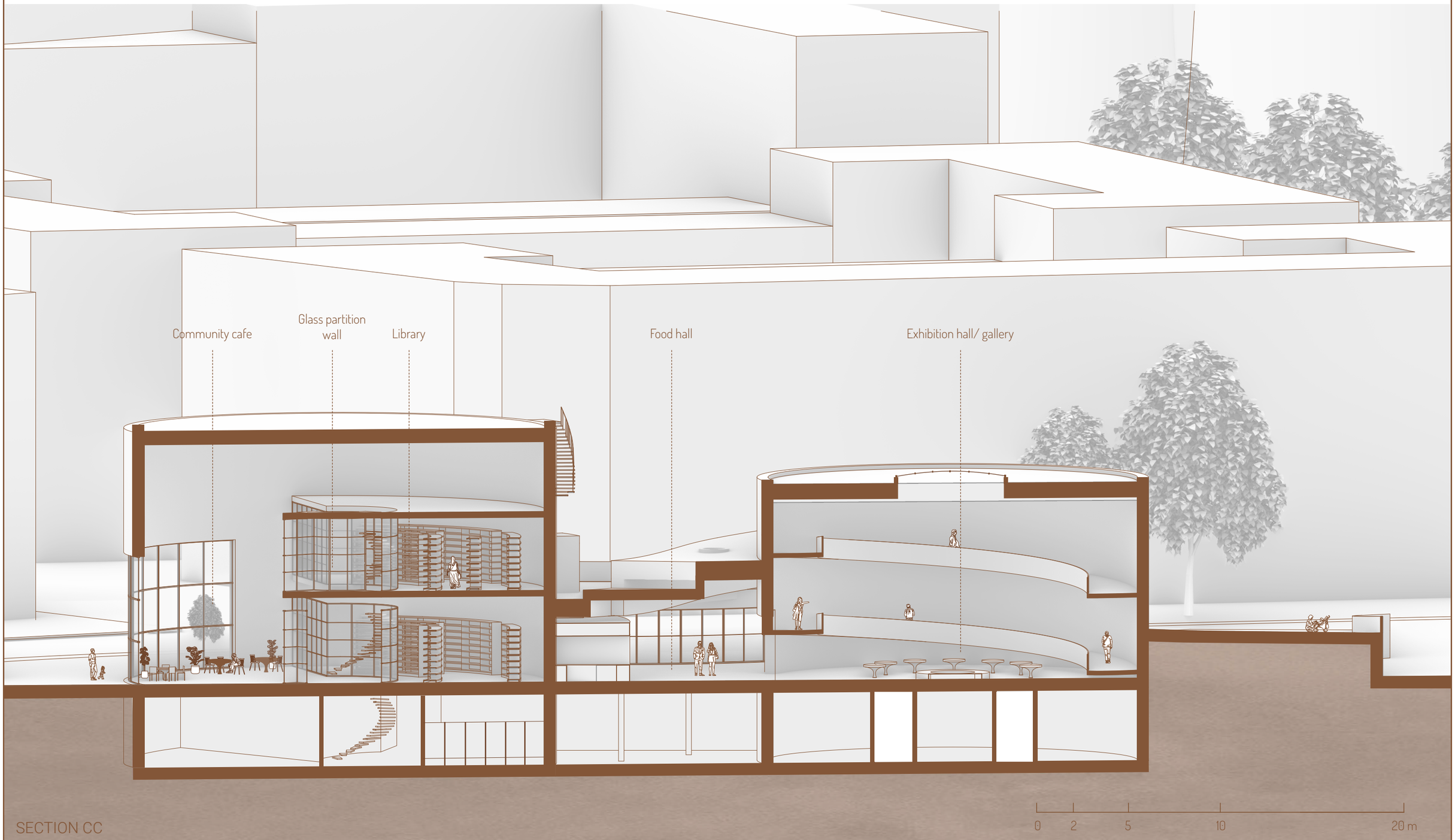
FIRST FLOOR +1



FIRST FLOOR +1



FIRST FLOOR +1


Community cafe
Glass partition wall
Library
Food hall
Exhibition hall/ gallery
SECTION CC
0
2
5
10
20 m

Scenarios

Yirlanie



Elisa



SCENARIO 1

Sebas



Noah



SCENARIO 2

Gitana



Guillaume



SCENARIO 3

SCENARIO 1

Yirlanie

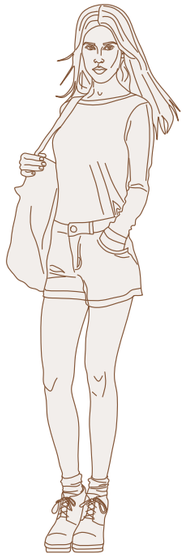
Lives in London

Student at UCL (University College London)

Master's Programme



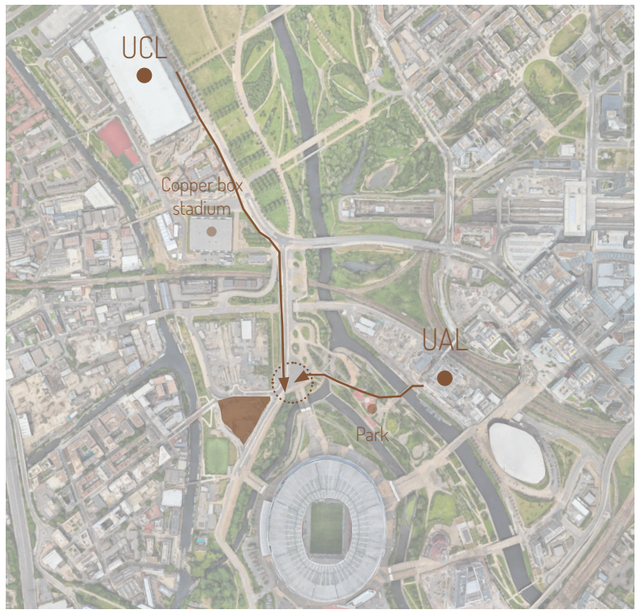
Elisa



Lives in London

Student at UAL (University of the Arts London)

Master's Programme








MARKET HALL QEOP






GOURMET BURGERS
LITTLE ITALY
Sushi
Indian cuisine
PIZZA
PIZZA
BURGER


MARKET HALL QEOP

SCENARIO 2

Sebas

Dutch

Came to London for a football match

Loves football

West Ham United F.C.



Noah

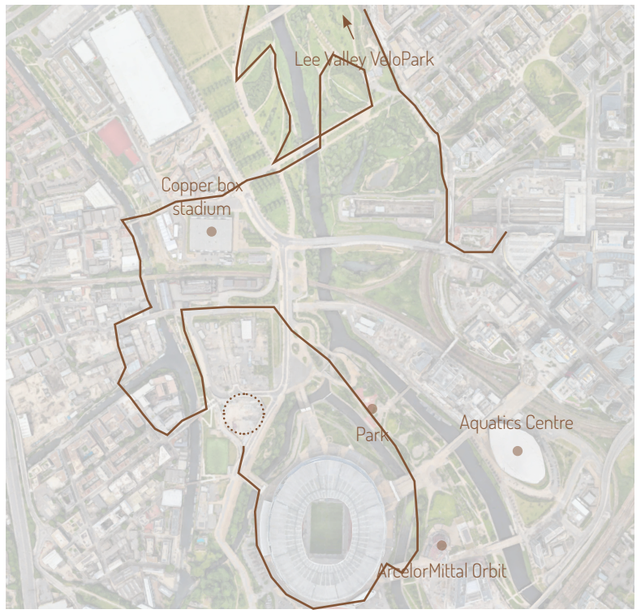


Dutch

Came to London for a football match

Loves football

Tottenham Hotspur








MARKET HALL QEOP


GOURMET BURGERS
LITTLE ITALY
Sushi
Indian cuisine
PIZZA
PIZZA
BURGER


MARKET HALL QEOP


COYI
COYI
COYI
Premier League
E ACADEM
OF
OTBALL
WEST HAM
UNITED
LONDON
OUNDED
IN
189

SCENARIO 3

Gitana

Local

Lives close to the social food hub

Loves gardening and farming

Rents an allotment garden



Guillaume

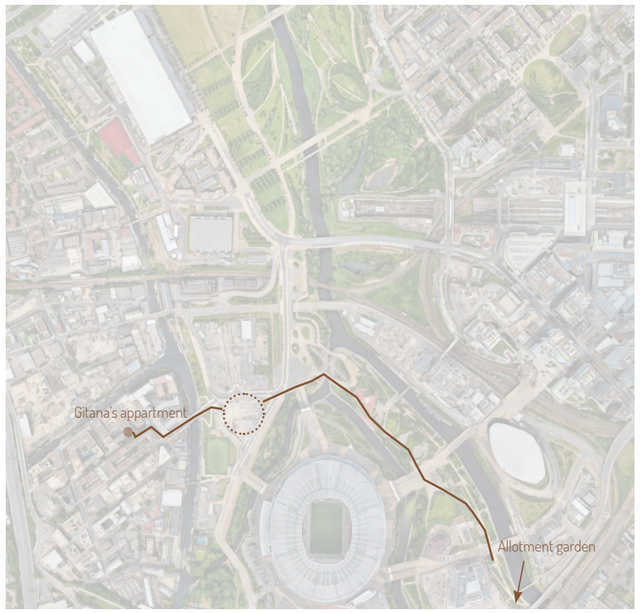


Lives in Islington

Chef

Works at the social food hub

Loves sharing everyting about food












FOOD
LIBRARY







Regeneration and redevelopement

↓

Heavily visited area

↓

Food/ art/ sport communities

Education

Green & open spaces

Very diversified

↓

Social food hub

↓

Connect surrounding neighbourhoods

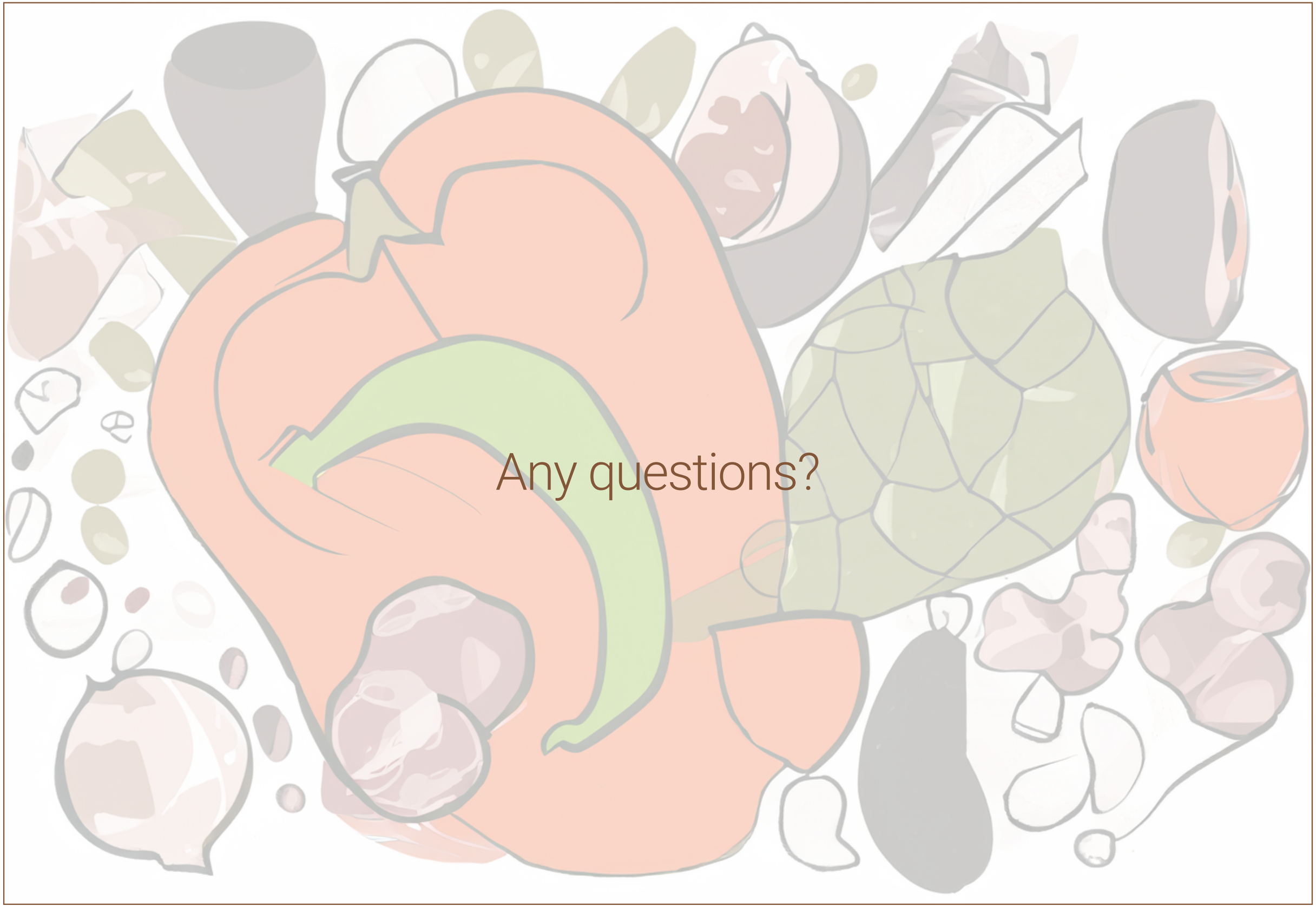
Bringing people together

Expand the food network

Acces to healthy food

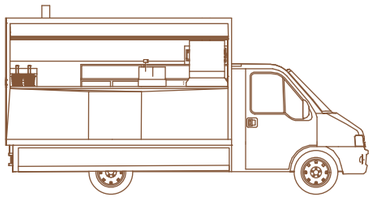
↓

A multipurposed building, which fits within the environment and is a place where you want to spend some time



Any questions?

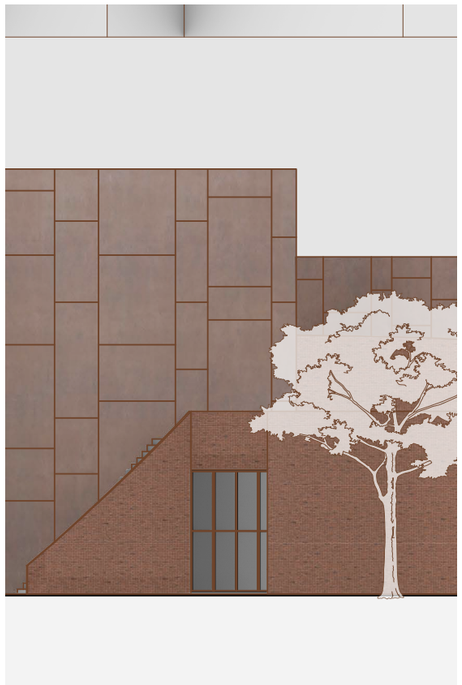
Entrance for:



Foodtruck



People



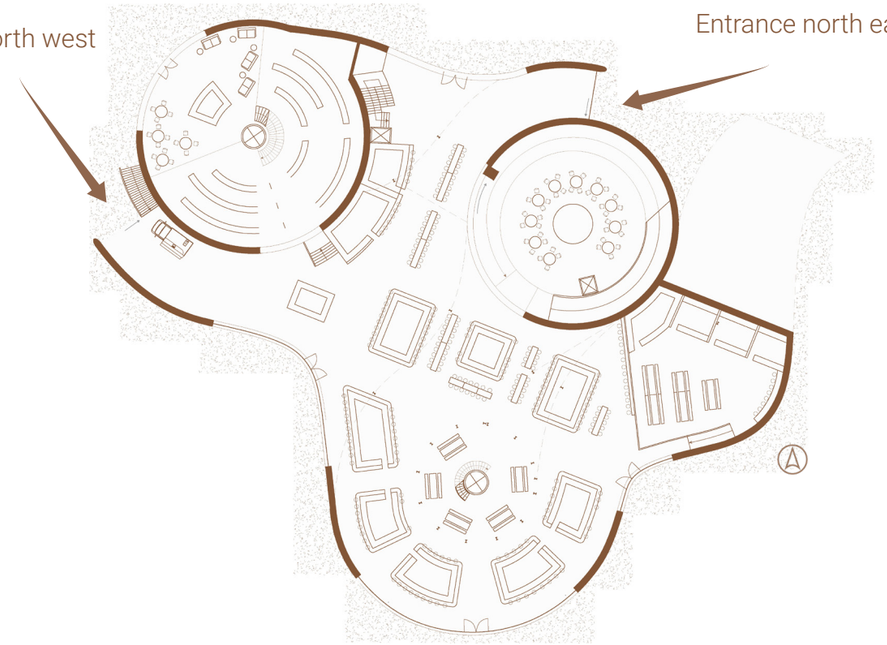
Entrance north west



Entrance north east

Entrance north west

Entrance north east



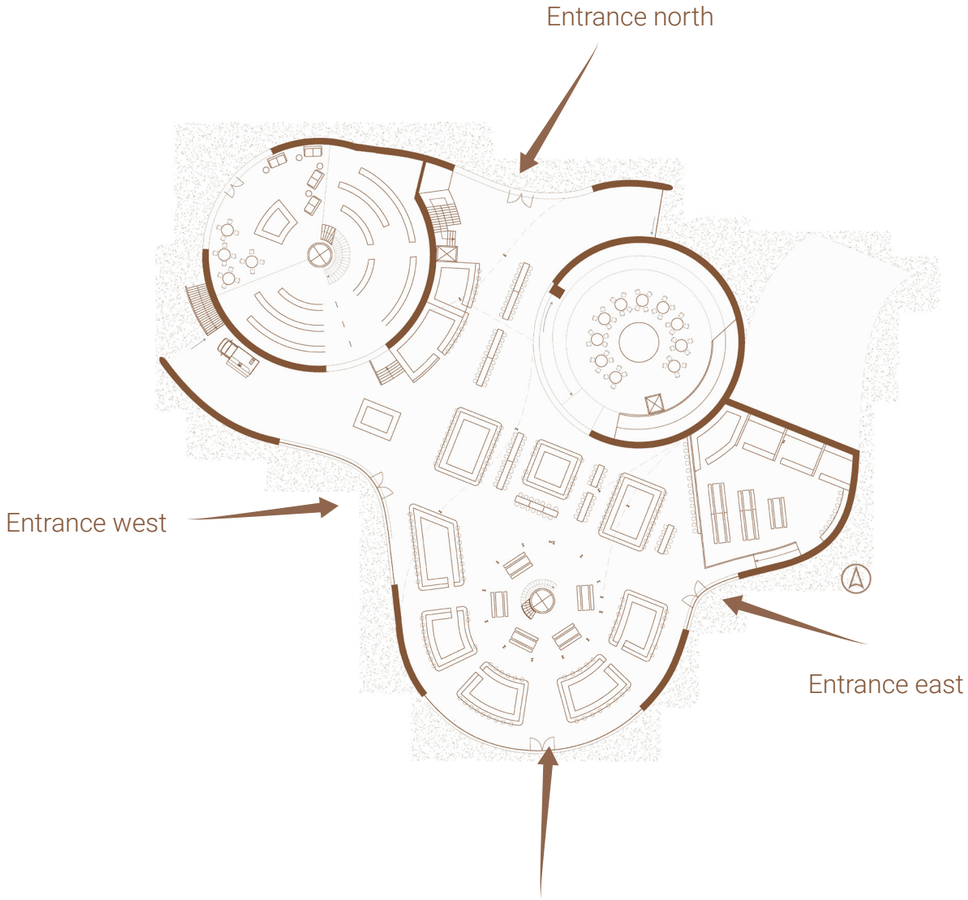
Entrance for:

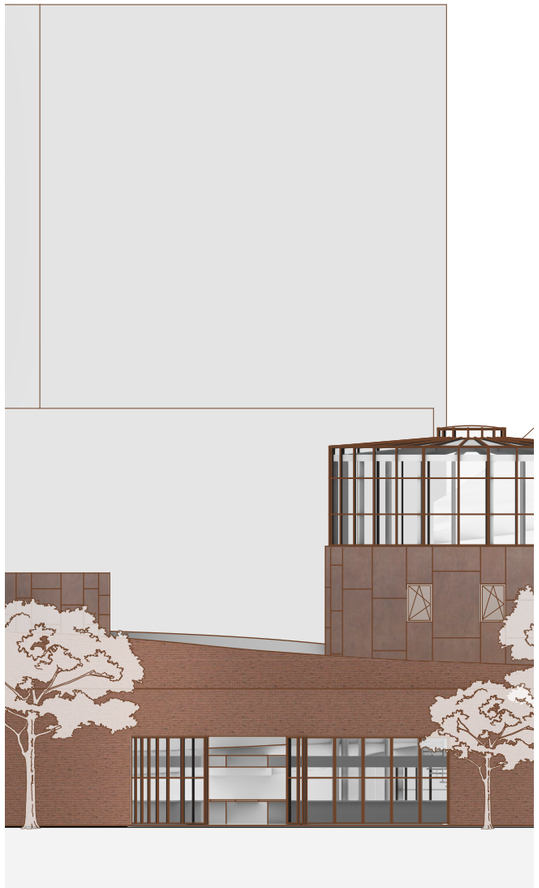


People

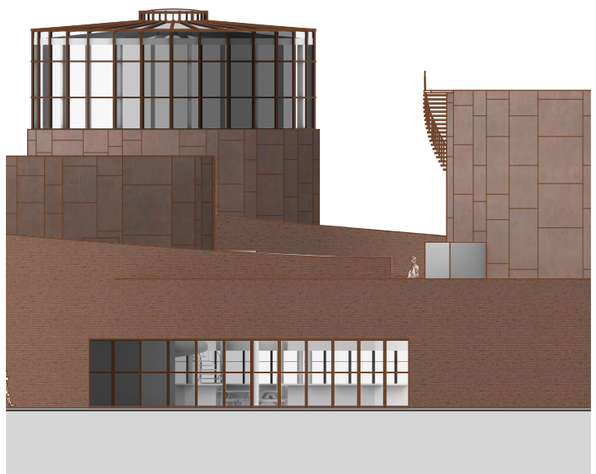
visual qualities

Summer and
winter opening for outdoor events
or terraces





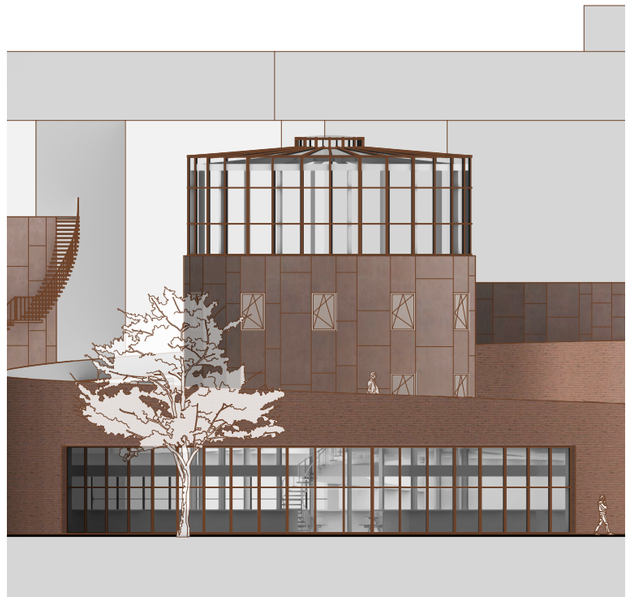
Entrance west



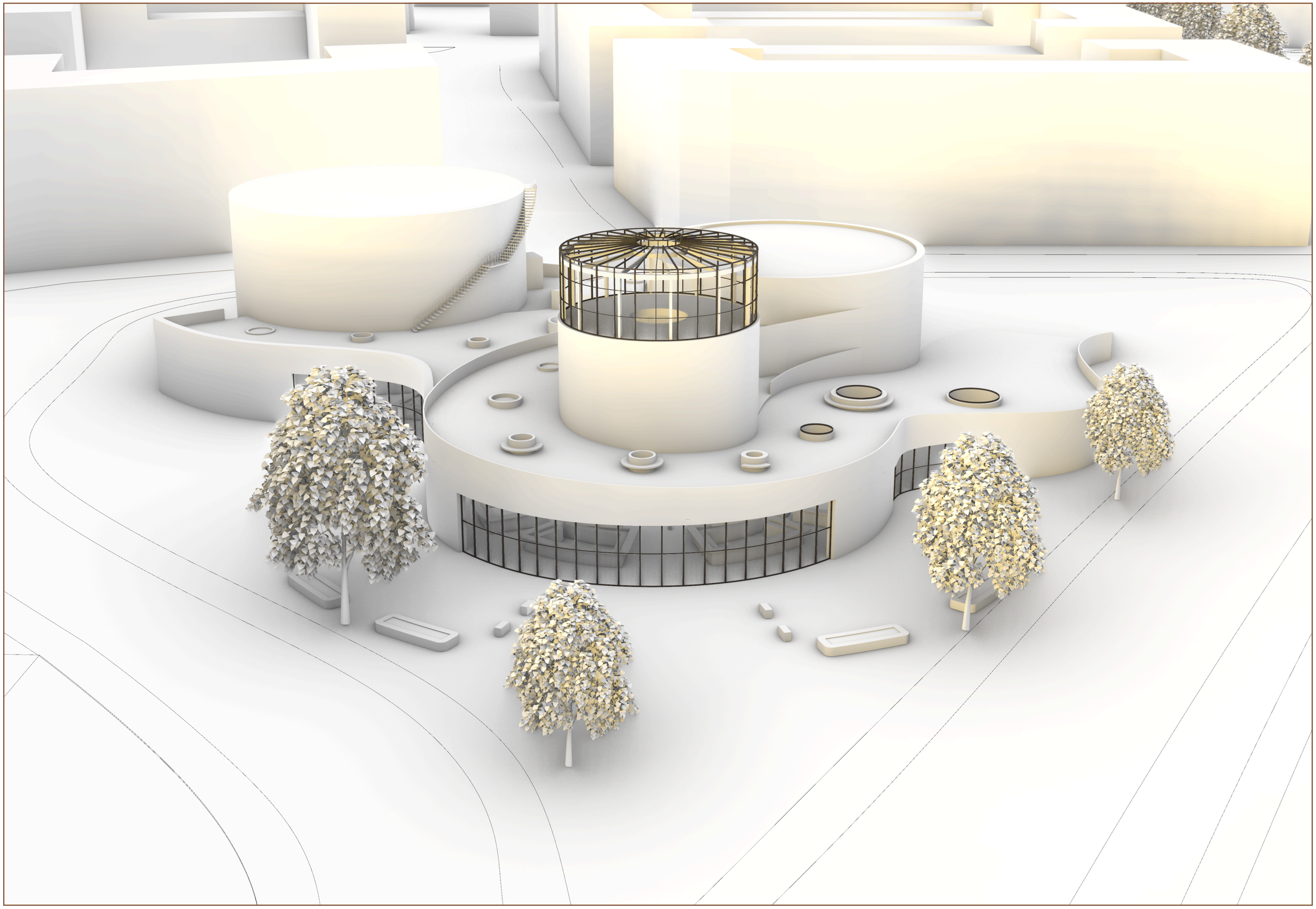
Entrance north



Entrance east



Entrance south



Warehouses

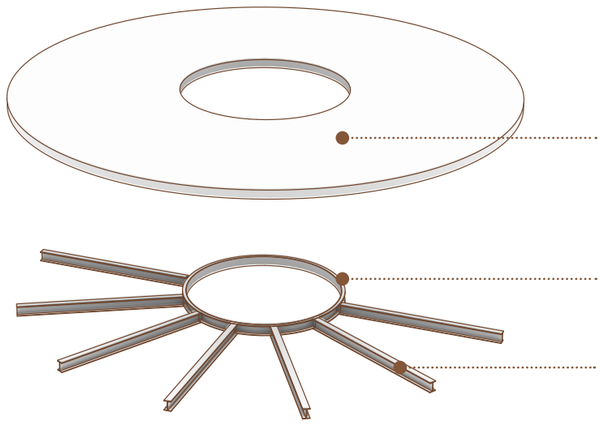
Residences and warehouses

Public buildings

Introduction circular typology

Former industries

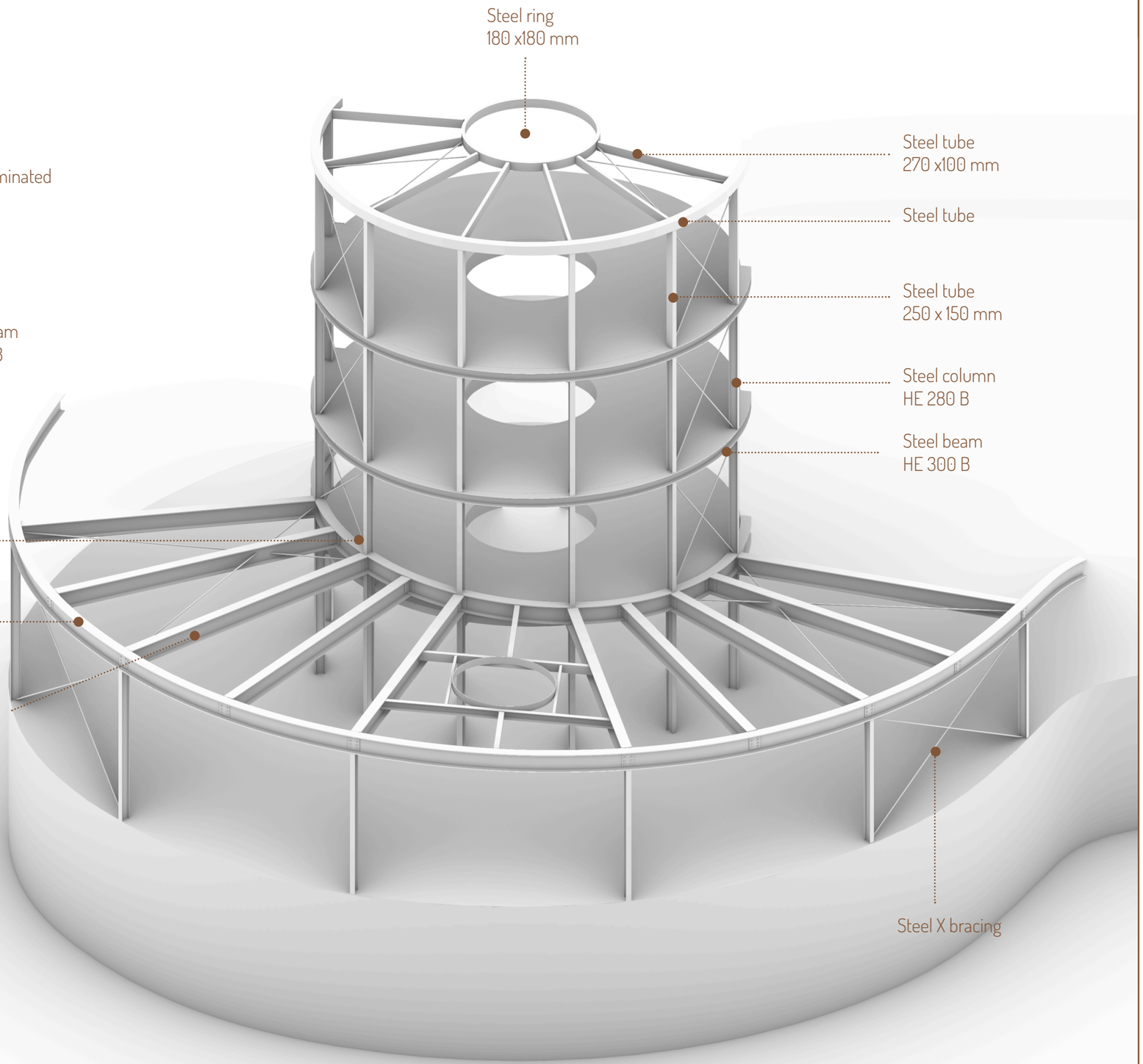
A circular typology is introduced to add variety to the area while also being more consistent with the typology of public buildings.



Cross laminated wood

UPE 240

Steel beam
HE 240 B



Steel ring
180 x180 mm

Steel tube
270 x100 mm

Steel tube

Steel tube
250 x 150 mm

Steel column
HE 280 B

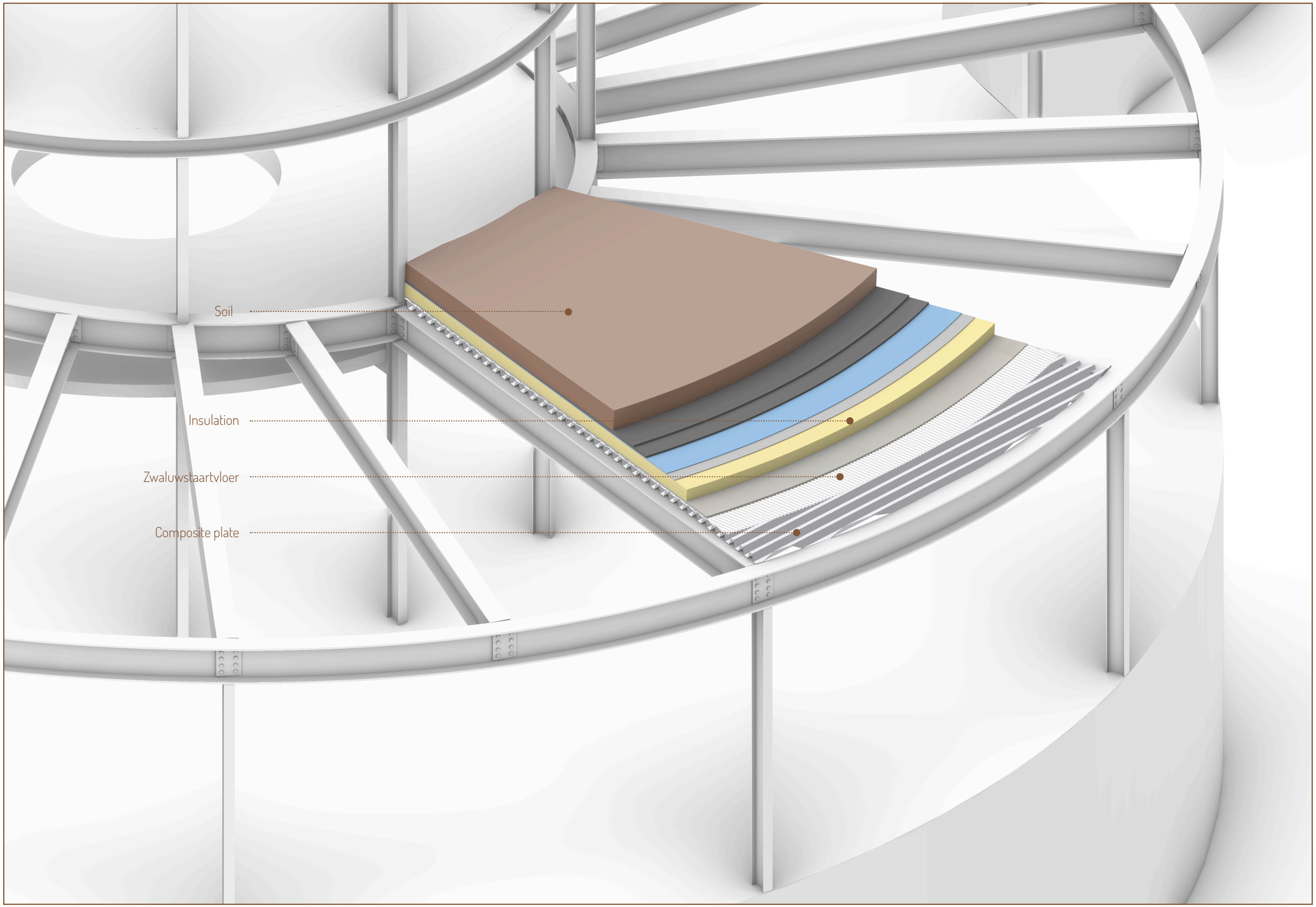
Steel beam
HE 300 B

Steel beam
HE 400 B

Steel beam
HE 400 B

Steel beam
HE 400 B

Steel X bracing


Soil
Insulation
Zwaluwstaartvloer
Composite plate

Solar panels

Green roof

Seasonal garden

Collecting rainwater
for grey water system

Food supply
from urban farm, food forest and surrounding community gardens.

Seasonal greens

Demountable
constructions and interior furniture

Flexibility
in open floorplan

Biodiversity

Green house
for cooking studios

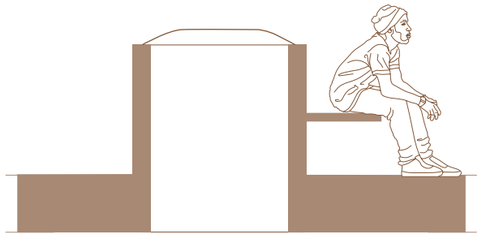
Roof park

Aqua thermal energy for heating and cooling
Heat exchanger

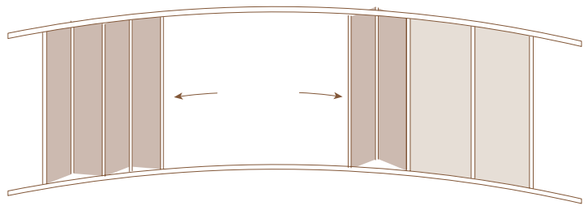
Water storage

Thermal energy from waste water

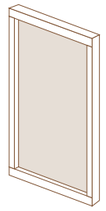
Food waste / food scrape / organic material
will go to the food waste management depot, and energy & water recovery centre.



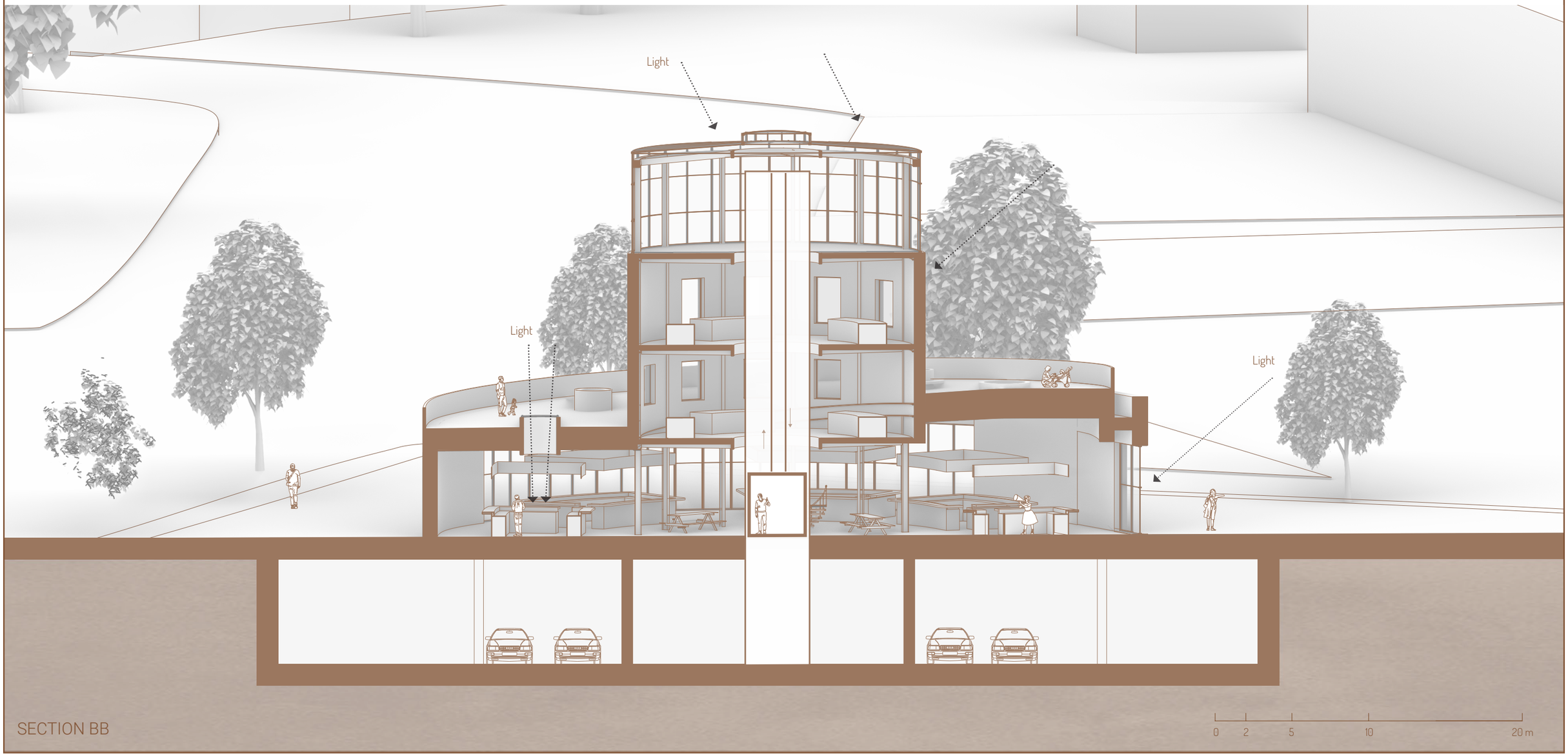
Roof opening



Folding door system



Alluminium windows



SECTION BB