Mixed Use Building

Office + Community Centre, Prague

İdil Küçük

Master Thesis Portfolio

Contents

Assignment of the Diploma Project	1
The Author's Decleration	2
Abstract	3
Analysis	5
Proposal	9
Plans	13
Sections	25
Elevations	29
Visualizations	33
Resources	43

Master Thesis Portfolio

Mixed Use Building Office + Community Centre Prague 4 - Michle

Author: İdil Küçük Supervisors: prof. Dr. Henri Hubertus Achten & Ing. arch. Jiří Pavlíček, Ph.D.

FA ČVUT 15116 Department of Architectural Modelling

2018 - 2019 / Summer Semester

1

Czech Technical University in Prague, Faculty of Architecture

2/ ASSIGNMENT of the diploma project

Mgr. program navazující

Name and Surename: Idil Küçük

Date of Birth: 16.04.1993

Academic Year / Semester: 2019 - Summer Semester

Department Numer / Name: 15116 - Ústav modelového projektování

Diploma Project Tutor: prof. Dr. Henri Hubertus Achten, Ing. arch. Jiří Pavlíček, Ph.D.

Diploma Project Theme:

See the Application Form for DP

Assignment of the Diploma Project:

1/description of the project assignment and the expected solution objective

The project area is in the BB Centrum in Michle, Prague 4. BB Centrum project is still proceeding and the picked site for the project is one of the places that is not designed yet. My solution for the area is to design a mixed use building which will work as an offlice building and also for community.

2/description of the final result, outputs and elaboration scales

Site: 1/1000

Site Landscape: 1/1000 Plan: 1/500 – 1/200

Sections, Elevations 1/500 – 1/200

Visualization

3/list of further agreed-upon parts of the project (model)

To this list further attachments can be added according to necessity.

Scaled Model

Date and Signature of the Student-

Date and Signature of the Diploma Project Tutor

Date and Signature of the Dean of FA CTU

G. J. Lo 19

CZECH TECHNICAL UNIVERSITY IN PRAGUE

FACULTY OF ARCHITECTURE

AUTOR, DIPLOMANT: İDİL KÜÇÜK

AUTHOR OF THE DIPLOMA WORK / DIPLOMA PROJECT: prof. Dr. Henri Hubertus Achten

Academic Year 2018/2019, Spring Semester

TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT:

(IN CZECH LANGUAGE)

TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT: MIXED USE BUILDING IN PRAGUE

(IN ENGLISH LANGUAGE)

LANGUAGE OF THE DIPLOMA WORK / DIPLOMA PROJECT: ENGLISH

Diploma Work / Diploma Project Supervisor Diploma Work / Diploma Project Opponent	Ústav: 15116 Department of Architectural Modelling Supervisor: prof. Dr. Henri Hubertus Achten
Key Words (Czech)	Mixed use, office, community, flexibility, BB Centrum, coworking, public space
Annotation (Czech)	
Annotation (English)	This Master Thesis Project focuses on design of a mixed use building that is consist of office space and community centre by providing interactive and flexible office space, and interaction with the public space.

The Author's Declaration

I declare that I have elaborated the submitted diploma work / diploma project independently and that I have stated all the used information sources in coherence with the "Methodological Instruction for Ethical Preparation of University Final Works".

(The complete text of the methodological instruction is available for download on http://www.fa.cvut.cz/En)

In Prague onSignature of the Diploma Project Author

This document is an essential and obligatory part of the diploma project / portfolio / CD.

2

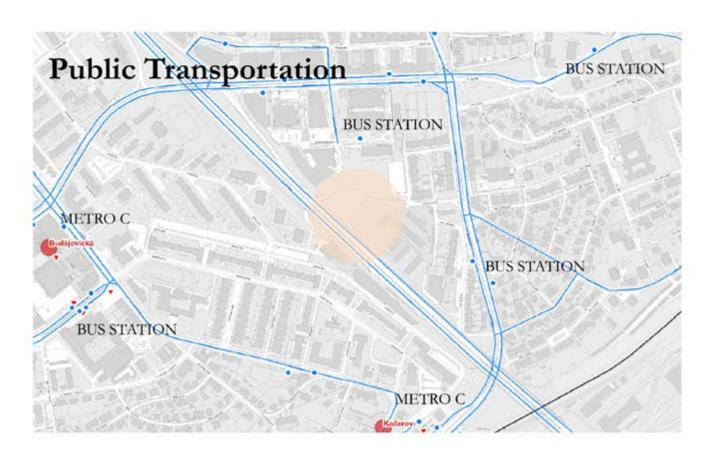
Abstract

Architecture is related to two essencial necesities of life: physical movement and the need for physical shelter, and both focuses on the 2 basic material: space and the body. However in today's life architecture is more than this. Contemporary architecture finds solutions and replies the contemporary needs.

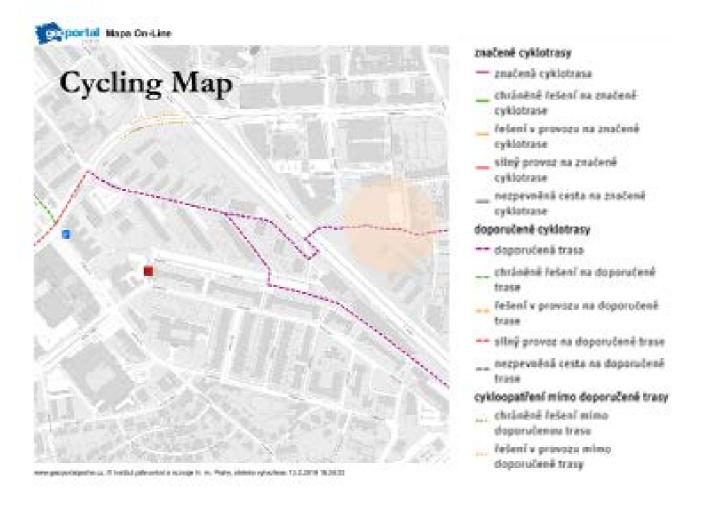
This Master Thesis Project focuses on not only to design meaningful places but also to responds to contemporary needs.

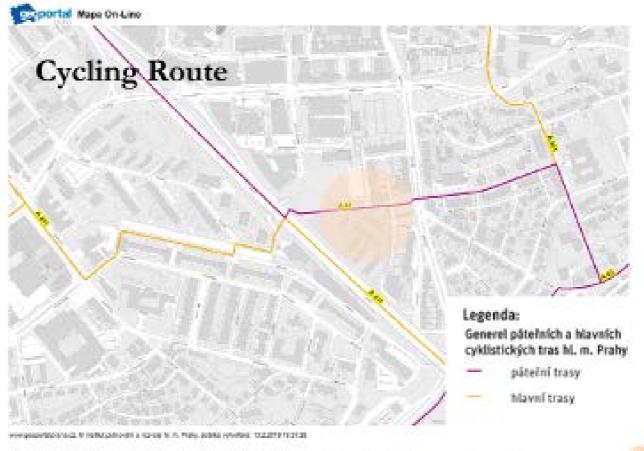
Project Site BB Centrum, Michle





The site has bus stops with bus routes around. There is also Metro C close by the area.

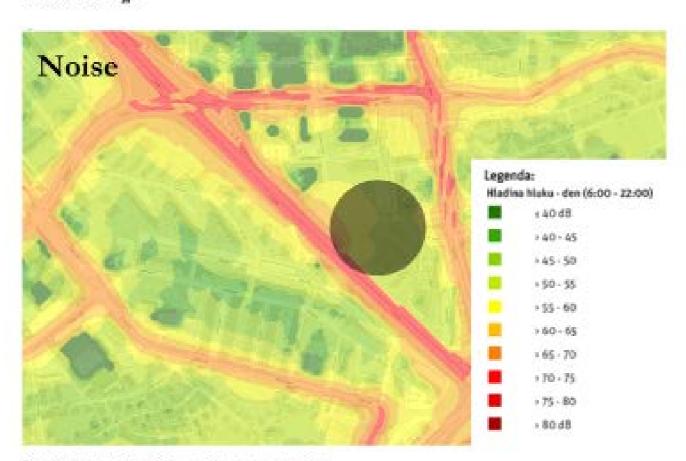




The area is in connection point of the main and branches of routes for cycling.

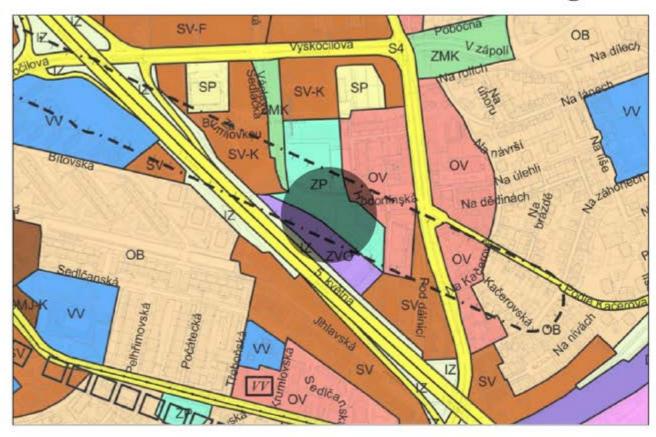
Functions | The state of the s

The site is located on a park and former municipality building, building shops area. Neighbourhood is on north side consist of administrative centres while on the south forming by residential buildings.



Site is close to the highway that causes noise.

Zoning Plan



ZP: Parks, historical gardens, graveyards

ZVO: Other building complexes public facilities

SP: Sports

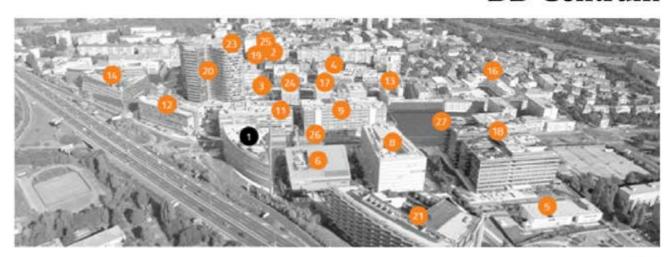
SV-K: Mixed-use

IZ: Green for isolation

ZMK: City and landscape greens

OV: General residential

BB Centrum



Proposal



- Prague 4 is the largest office district in Prague.
- 352 600sqm of area is becoming office spaces between 2018 2020. The 18% of the area is planed in the Prague 4.
- Vacancy rate became 5.3% in 2018 from 6.7% which was in 2017. It is the 3rd lowest district with the vacancy rate in Prague.
- 1st place is Prague 1 with 4.4% and the 2nd place is Prague 8 with 4.9%.

Office



- -Resident zone
- Orum myaliima areat
- -Resilent work space
- Semi enclose
- -Meeting zone

Meeting Workshop

Tiqqusum

Office

-Social zone

Lounge, PingPong,

COHER-163-FIRM

Terrace, Jennis

Community Centre

- Designing a community centre encouraging the movement would

break the borders of the business

- Since the site and the neighbor-

hood is dead during the working

hours, community centre will

bring the people staying home

outside by providing answers to

contemporary needs. It will bring

people together in the means of

place, values, interests, age and

spirituality, since the community

coagulationsseems to be very dif-

ficult in the contemporary urban

centre.

society.

- -Active zone
 - Child cur

Anym, Yoga, Phates

TABLICA

Missio

-Silent zone

Reading coom

Community Centre

Programme of Office Space

Resident zone, Resilent work space, Meeting zone, Social zone

Atrium, Lobby, Terrace, Common Meeting&Social zone, Community centre, Car parking, Cafes, Restaurants

Childcare, Gym, Yoga, Pilates, Dance, Music, Reading room, Conferance, Lecture

General storages, Kitchens, Maintenance rooms

Operation and maintenance space

Flexibility

Offices that are flexible in the means of division which will provide in the future also being open for some other operation inside.

Daylight

Offices that can use the daylight to be more sustainable. For the 4 m high floors, sunlight can reach at about 8 m. Therefore to be able use the natural light will be prioritised to suport energy efficiency in such a building which needs the light as its function primarily requires.



Programme of Community Centre

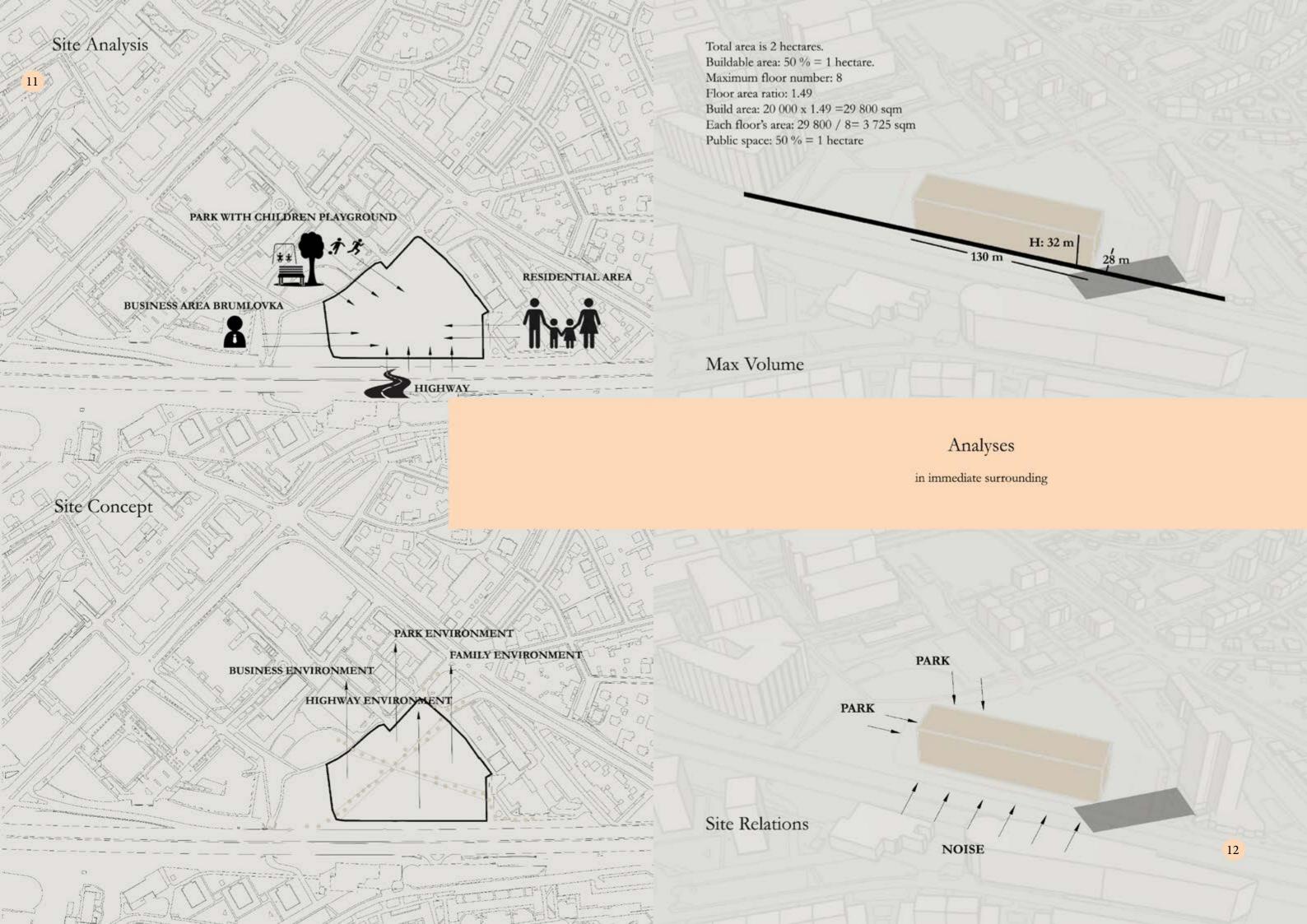
RESEARCHING SHARING

WORKING LEARNING EXCHANGING

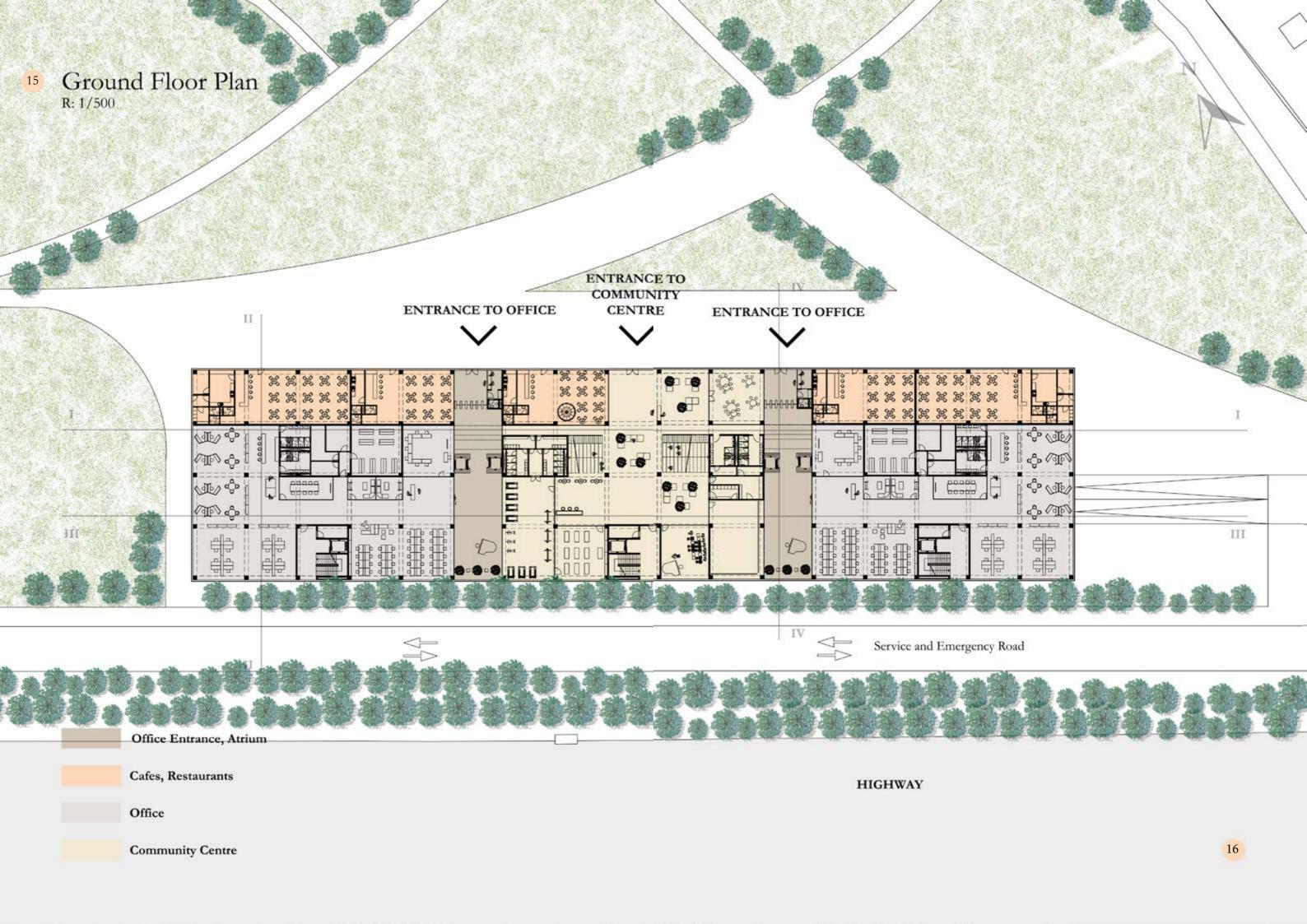
ENJOYING CREATING INSPIRING

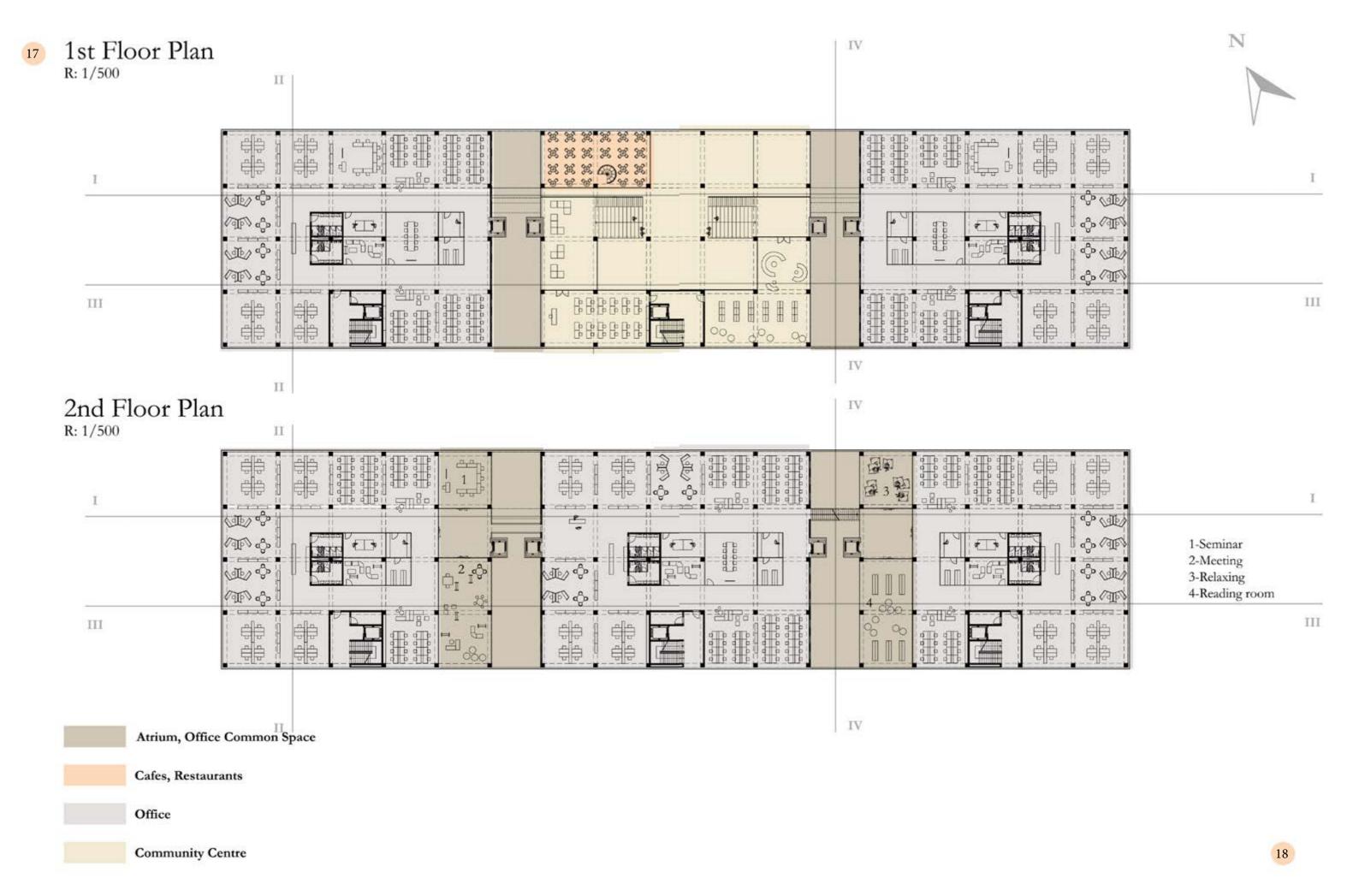
DANCING EXPLORING

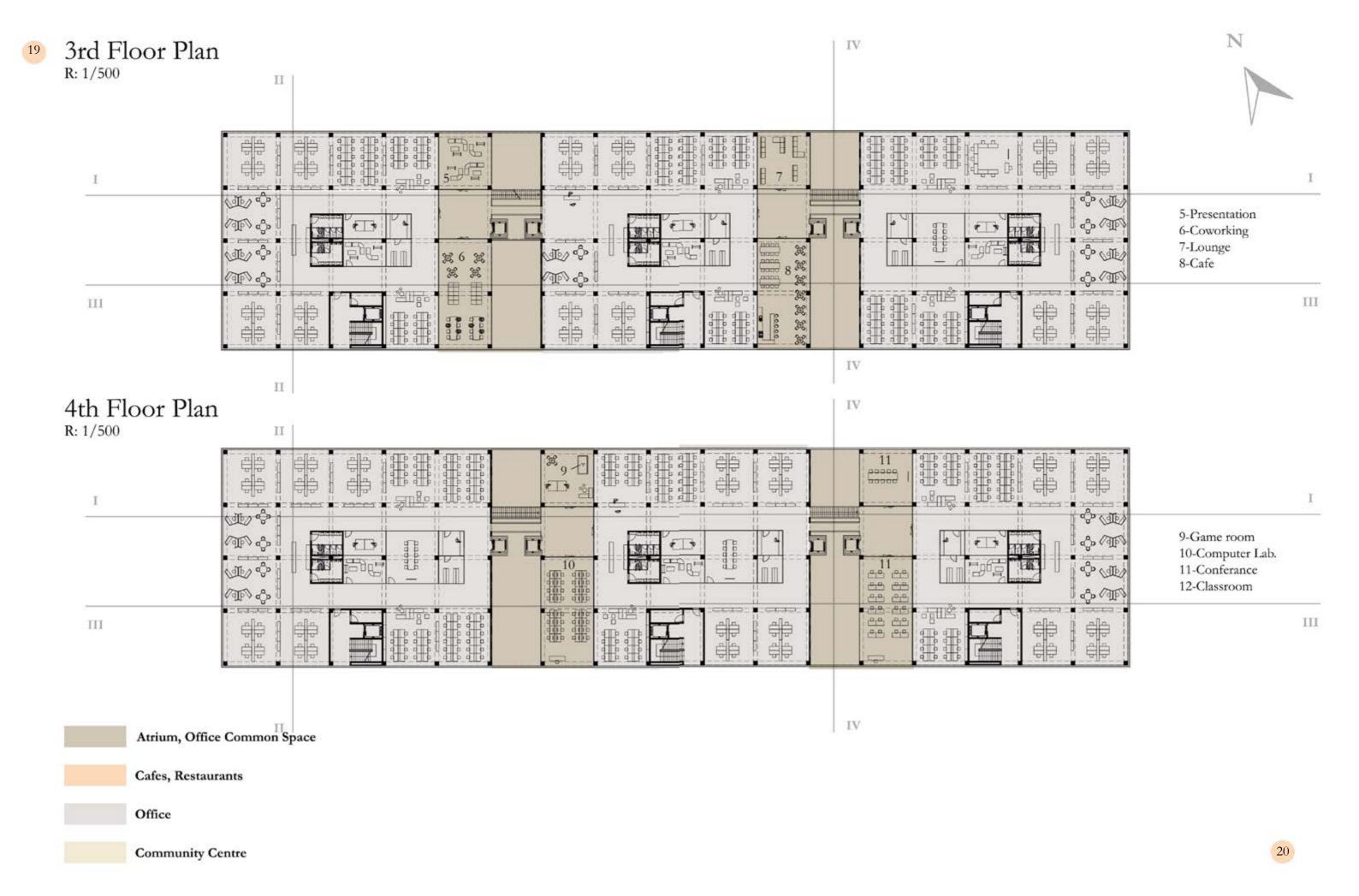
Dues of office owners are including monthly subscribtion for the community centre. Therefore the community centre will improve the value of the office space, while it also adding value to the working atmosphere of the building with its programme.

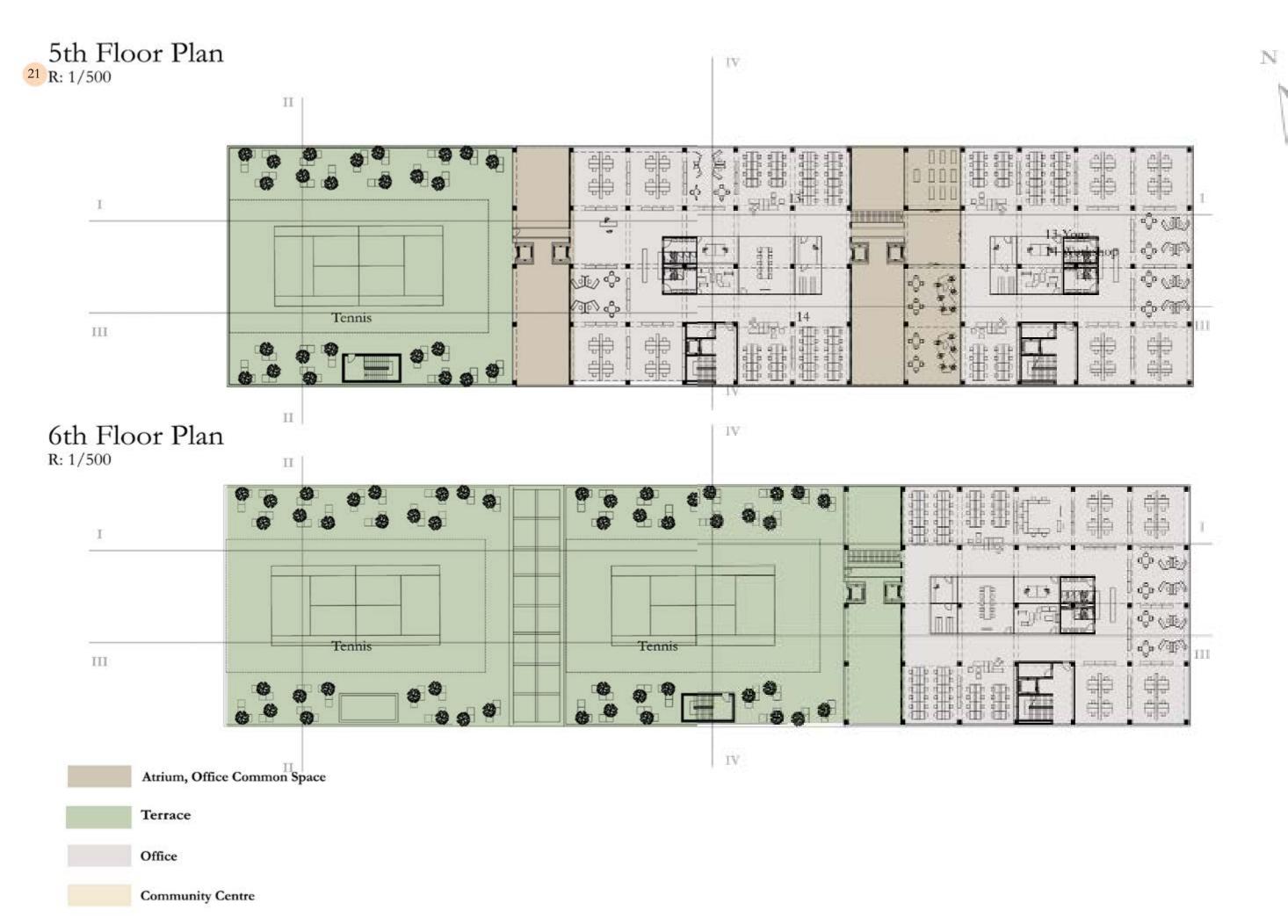






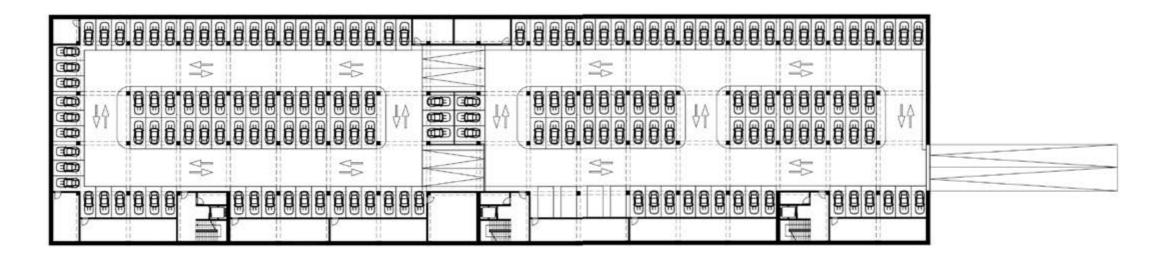


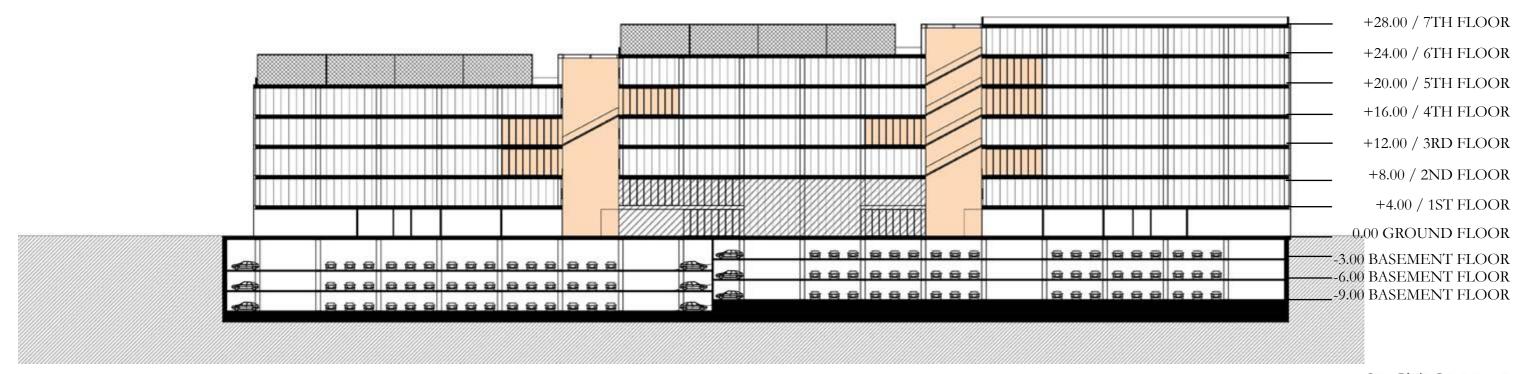




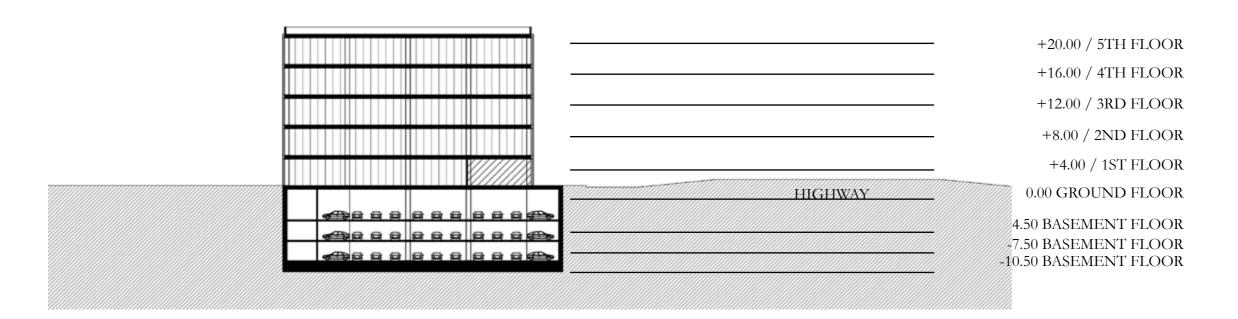
	8.000	.000. ☆	888.	888	.000. ☆			.888	.000 <>>>	.888	999	.888	888 ⇒	.888	98
	.000	000	8 8 8 8 8 8			J∆	₩	'888 .888	'888 .888	1000	₩			999	1
1 1 1 1 1		₽Ą	<u> </u>	9,9,8	VA			20,0,0					10	2/2/3	

Talalalalalalalalalalalalalalalalalalal	↓
	===
	99

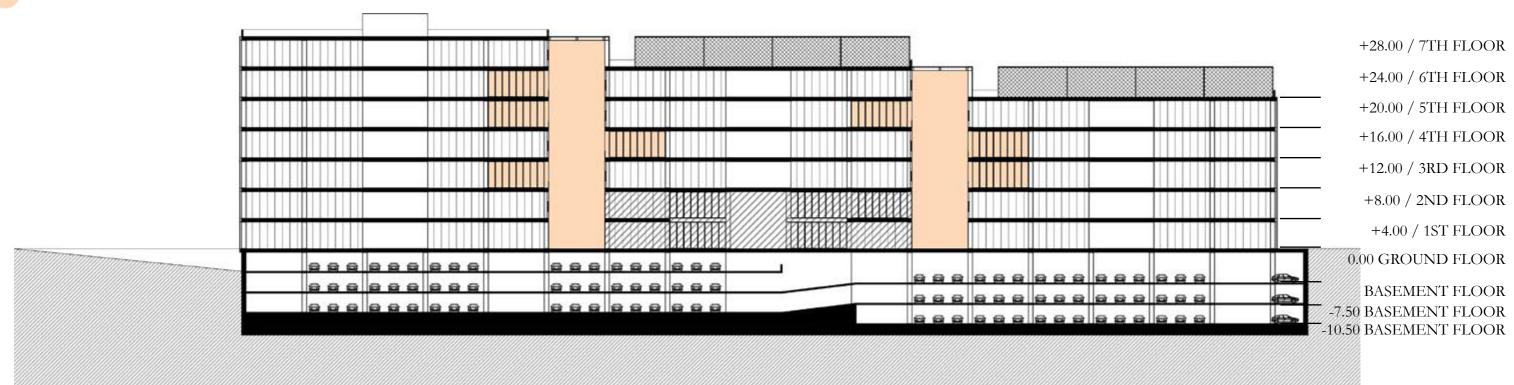




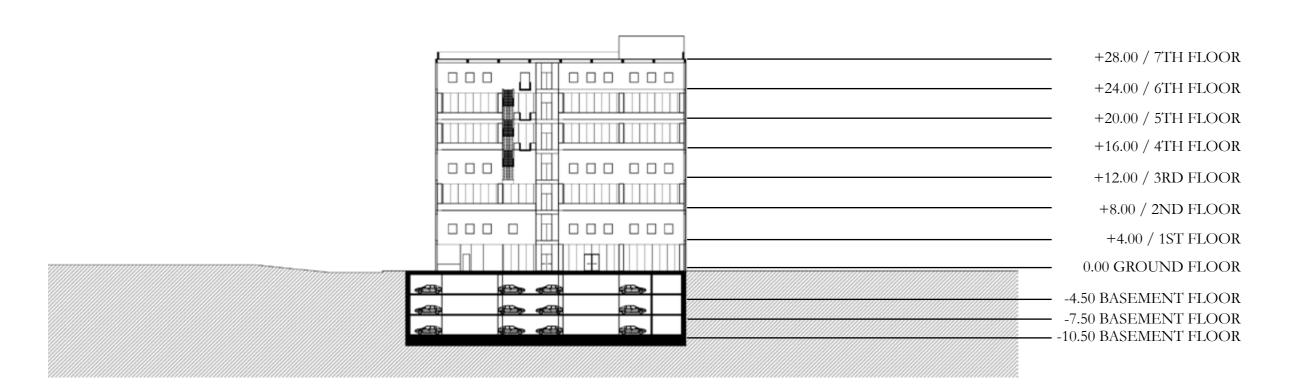
SECTION I - I R: 1/500



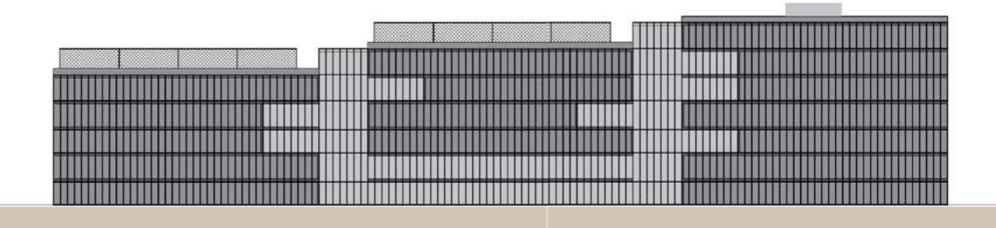
SECTION II - II R: 1/500



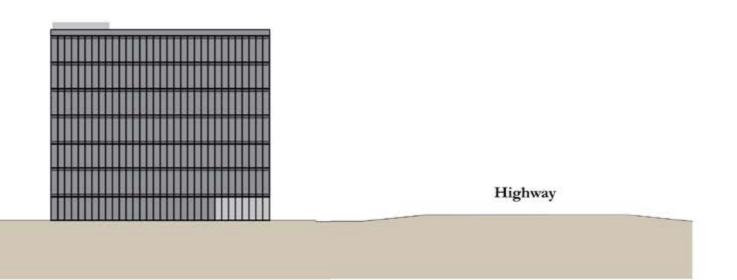
SECTION III - III R: 1/500



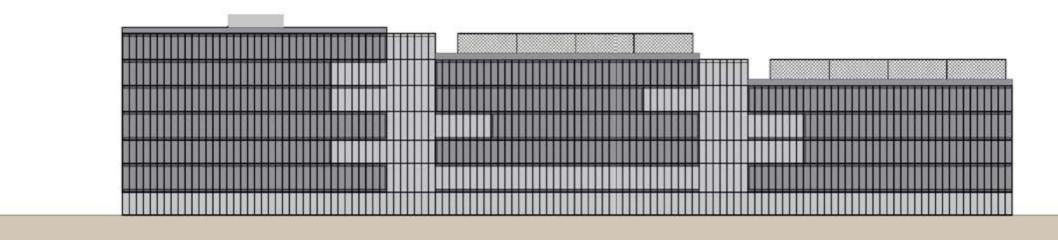
SECTION IV - IV R: 1/500



Southwest Elevation R: 1/500

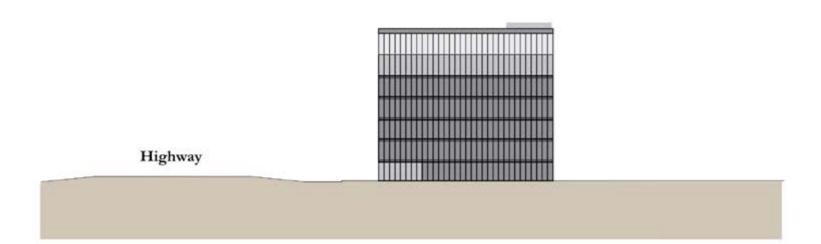


Southeast Elevation R: 1/500

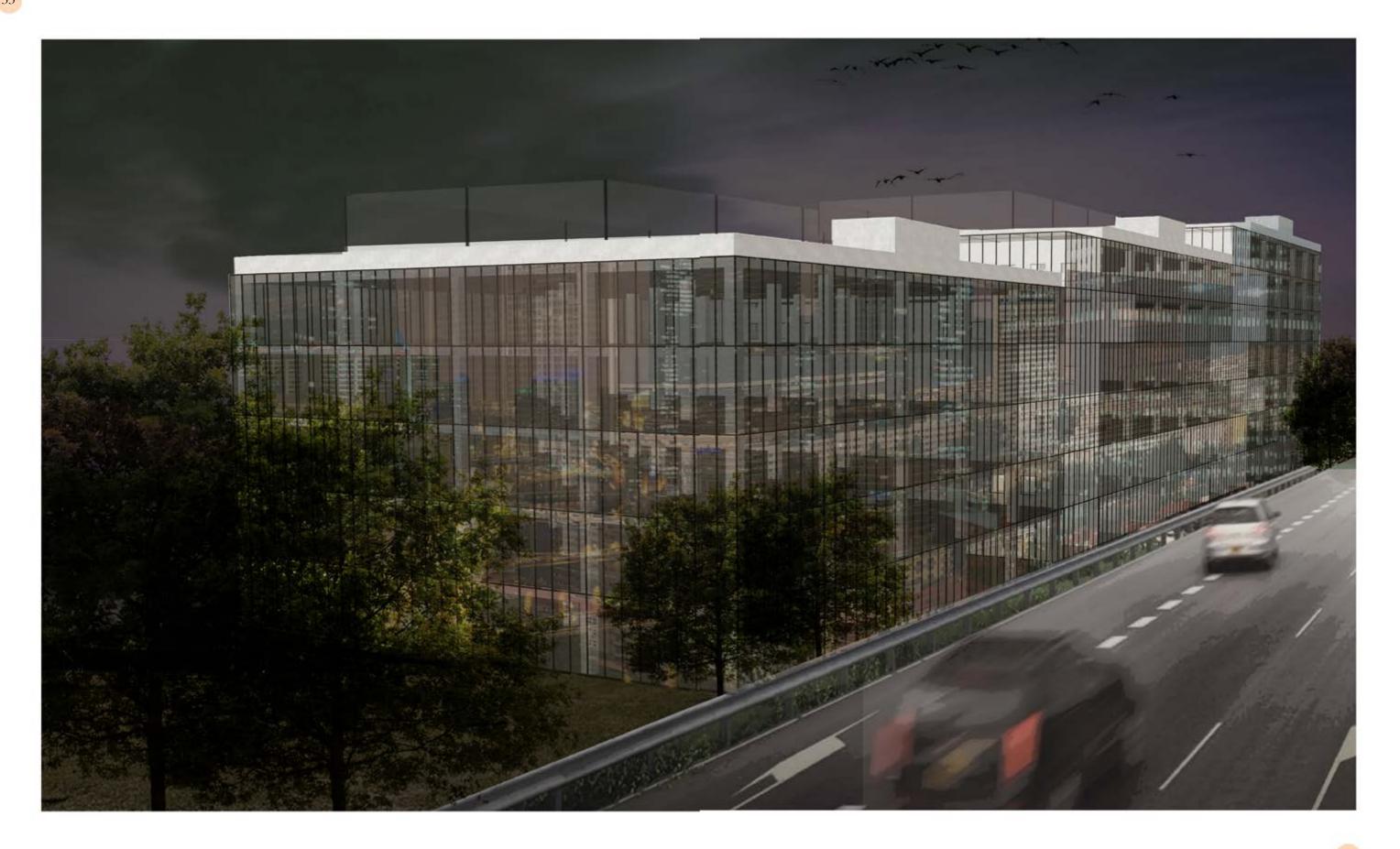


Northeast Elevation

R: 1/500



Northwest Elevation R: 1/500

















43 Resources

```
1 [http://www.urban-hub.com/buildings/mixed-use-build-
ings-for-diversified-sustainable-sites/]
2[https://www.cityofbowie.org/Document-
Center/View/952/A-Brief-History-of-Mixed-Use-Developments---Stephen-Ferrandi-Presentat
ion?bidId=]
3 [https://www.designingbuildings.co.uk/wiki/Mixed_use_development]
4 [https://www.sciencedirect.com/science/article/pii/S1687404814000303]
5 [https://www.kpf.com/stories/mixed-use]
6 [https://cs.wikipedia.org/wiki/Michle]
7[https://giswas1.mepnet.cz/arcgis/rest/directories/arcgisout-
put/TISK/PrintMap_GPServer/_ags_29e744a7f0c34adcbf48747c06ab6c27.pdf]
8 [https://www.dezeen.com]
9 [https://www.azuremagazine.com/article/plyscrapers-timber-towers-green-skyscrapers/]
10 [https://www.havwoods.com.au/rise-of-sustainable-building/]
11 [https://www.archdaily.com]
12 [http://www.plparchitecture.com/oakwood-timber-tower.html]
13 [https://perkinswill.com/work/river-beech-tower]
14 [https://inhabitat.com]
15[https://books.google.cz/books?id=_lmcCQAAQBAJ&pg=PA387&lp-
g=PA387&dq=green+towers+sustainable&source=bl&ots=Zt7GA5d4MI&sig=ACfU3U3ncR-
6cvEzx_V6em5BWEdNw5CHqA&hl=tr&sa=X&ved=2ahUKEwjTz5Tg4rngAhUPfFAKHbXu
Br0Q6AEwDXoECAAQAQ#v=onepage&q=green%20towers%20sustainable&f=false]
16 [https://www.som.com/ideas/research/timber_tower_research_project]
17 [https://www.bbcentrum.cz/en/about-us/bb-centrum/about-bb-centrum]
18 [https://www.breeam.com/]
```

```
19[https://www.researchgate.net/publication/326818196_Sustain-ability_and_the_21st_Century_Vertical_City_A_Review_of_Design_Approaches_of_Tall_Build ings]

20 [https://realitymix.centrum.cz/statistika-nemovitos-ti-graf.php?mesto=19&praha=0&s=byty-pronajem-prumerna-cena-pronajmu-1m2-mesic]

21 [https://www.fosterandpartners.com]
```

23 [https://plan.app.iprpraha.cz/texty/#tcz_cl_157]

22 [http://app.iprpraha.cz/js-api/app/vykresyUP/]

