

České vysoké učení technické v Praze, Fakulta architektury 2/ ZADÁNÍ diplomové práce

Mgr. program navazující

jméno a příjmení: Sedláková Kristýna

datum narození: 10.1. 1986

akademický rok / semestr: Zimní Semestr, 2011/12

ústav: Prostorového Plánování

vedoucí diplomové práce: Henry W. A. Hanson IV, RA, RLA, LEED AP

téma diplomové práce:

viz přihláška na DP

Přeměna Rohanského nábřeží – Život u řeky

zadání diplomové práce:

Project Definition / Purpose, Goals, Strategies

The Karlin district of Prague has recently seen rapid change, particularly since the flood of 2002. These changes are cumulative and in the framework of previously existing and new transportation infrastructure. This project seeks to balance and unify the different components of the surroundings and propose a new development between the river and the existing neighborhood. Fundamental to this proposal are considerations of sustainability.

Main Goals

- 1. Eliminate or mitigate barriers in urban fabric
- 2. Open public access to the riverfront as a social and environmental amenity
- Create a new mixed-use, friendly community with enough housing to be a high quality, functional, and sustainable neighborhood that advances the sustainable condition of the area and its surroundings
- 4. Restoring and protecting landscape and natural systems
- 5. Create a riverfront identity that represents a good address in the city

Expected final resolution

- 1. Context Analysis showing the effect of the proposal at a minimum scale of 1:5000
- Site development proposal showing existing urban fabric, proposed new construction, revitalized public spaces at a scale of 1:500
- Sections (minimum of 3) showing the relationship of proposed new development to existing buildings and public spaces at a minimum scale of 1:200.
- 4. Floor plans, all floors, at a minimum scale of 1:200.
- Minimum of 3 visualizations from ground level describing the relationship of public spaces to the existing and proposed buildings.
- Aerial visualization of the proposed development including immediate surroundings.
- Physical model at a minimum scale of 1:1000 showing the proposed new construction and surrounding buildings and public spaces.
- Note: All of the above, except context analysis, shall be populated illustrating the way in which the proposal is expected to perform.
- Diagram(s) of intended urban occupancy
- 10. Diagram(s) of intended urban ecosystem(s).

Datum a podpis studenta 25.9, 2011 Sedicio

Datum a podpis vedoucího DP

Datum a podpis dekana FA ČVUT

registrováno studijním oddělením dne

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2/ ZADÁNÍ diplomové práce

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zadání diplomové práce:

Definice projektu / účel, cíle, strategie

V pražském Karlíně došlo v poslední době k mnoha změnám, zejměna po povodní v roce 2002. Tyto změny jsou komplexní, v rámci již existující i nově vznikající dopravní infrastruktury. Tento projekt se snaží docilit rovnováhy a konečného sjednocení jednotlivých složek prostředí a navrhnout nový vývoj mezi řekou a stávajícím okolí. Základem návrhu jsou aspekty trvale udržitelného rozvoje.

Hlavní cíle

- 1. Překonání, popř. omezení bariér v urbánní struktuře
- 2. Podpora volného veřejného přístupu k řece, propojení s řekou jako se zásadní společenskou a přírodní hodnotou
- Vytvoření nové polyfunkčni, přátelské urbánní struktury s dostatkem bytových jednotek, která bude pro uživatele kvalitním, funkčním sousedstvím a zároveň bude respektovat pravidla udržitelného rozvoje
- 4. Reorganizace a ochrana krajiny a přírodních systémů
- 5. Vytvoření reprezentativní struktury u řeky struktury vhodné pro toto místo

Očekávané závěrečné výstupy práce

- Mapa širších vztahů, která ukazuje vliv návrhu na okolí, min. měřítko 1:5000
- Situace, dúraz na prezentaci oživení veřejných prostranství, měřítko 1:500
- Řezy (minimálně 3), zaměření na prezentaci vztahu mezi návrhem a existující zástavbou a veřejným prostorem, min. měřitko 1:200
- Půdorysy všech podlaží, mín. měřítko 1:200
- 5. Min. 3 vízualizace z úrovně chodce popisující vztah veřejných prostranství a navrhovaných i stávajících budov
- 6. Ptačí vizualizace návrhu včetně nejbližšího okolí
- Fyzický model návrhu a přilehlého okolí, min. měřítko 1:1000
- Pozn.: Všechny výše uvedené výstupy, s výjimkou mapy širších vztahů, musí co nejjasněji prezentovat a definovat návrh, jeho podstatu
- Diagram(y) míry a způsobu užívání navrhované struktury
- 10. Diagram(y) funkce ekosystémů v navrhované struktuře

Datum a podpis studenta

Datum a podpis vedoucího DP

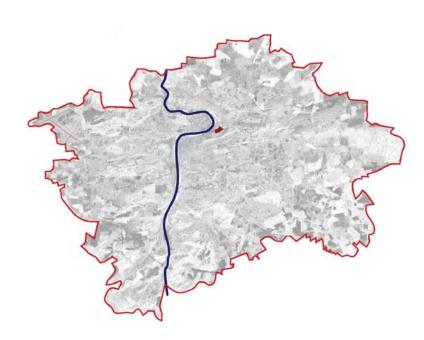
Datum a podpis děkana FA ČVUT

registrováno studijním oddělením dne

INVENTORY I

HISTORY OF ROHAN ISLAND AND MANINY 06 http://www.zastarouprahu.cz/vestnik/3-2010/obalka310.pdf 07 _HISTORY OF GREAT PLANS http://www.fabriky.cz/2007_rustonka/index.htm _TOPOGRAPHY_GEOLOGY 08 http://www.odklepnuto.cz/aukce/5258798/praha-d969-moderne-sidlisko-_THE RIVER DEVELOPMENT _FLOOD PLAINS 09 invalidovna-hotel.html _MICROCLIMATE _TERRITORIAL SYSTEM OF ECO-STABILITY http://ametc.architektonicke-modely.cz/povodnove-modely-ntm.html 11 _UNDERGROUND NET _PUBLIC TRANSPORT AND PARKING http://www.stavebni-forum.cz/cs/article/10577/invalidovna-provzdy-zmare-12 _DAILY RECREATION _SIGHTS AND CULTURE _CHARACTERISTIC PARTS OF THE CITY 13 http://www.e-architekt.cz/print.php?Pld=280 http://wgp.urm.cz/app/tms/aplk/arcgis_api/uap/index.html http://mapy.geology.cz/website/geoinfo/viewer2.htm ANALYSIS I http://www.euroagentur.com/cz/praha-pocasi http://web.natur.cuni.cz/geografie/vzgr/monografie/modelling/model-_AREA VALUES _AREA PROBLEMS ling_hosek.pdf tomcat.cenia.cz/eia/download.jsp?view=eia_cr&id=PHA203&file... http://www.prague-travel.name/mhd-praha-jizdni-rady-idos/ INVENTORY II http://maps.google.cz/ http://amapy.centrum.cz/ _WATER AND WASTE MANAGEMENT 16 http://www.mapy.cz/ _ECOSYSTEMS 17 http://wgp.urm.cz/tms/internet/vykresy_up/index.php?client_type=gis_ _FUNCTIONS OF THE PARTERRE _CONDITIONS OF SPACES 18 hr1&strange_opener=0&client_lang=cz_win 19 http://www.praha.czso.cz/ _MASTER PLAN 20 _URBAN OCCUPANCY ANALYSIS II _PLACE VALUES _SWOT ANALYSIS 24 _PLACE PROBLEMS 25 CONCEPT 26 DESIGN I _FUNCTIONS 28 _SITE PLAN 29 32 _CONTEXT ANALYSIS _SECTION AA _URBAN OCCUPANCY _SECTION BB 34 _ECOSYSTEMS _SECTION CC 36 DESIGN II SELECTED BLOCK

REFERENCES





HISTORY OF ROHAN ISLAND AND MANINY

The area, which is now called Rohan Island, is not the original island of that name, nor the island itself anymore. It is a large part of the Karlin bank, which, after decades when laying without any meaningful use, became the territory of the interest of developers.

Four islands alongside the Karlin bank were formed from flood deposits. The shores of islands were inforced in the 17th and 18th century and their area was used for various economic activities, primary to operate mills. The islands have their owners, according to which were called. Rohan Island was named after the owner Josef Rohan, master carpenter, who owned the island in 1850. The island is also known as Köpplův according to the previous owner. Rohan Island touched Jerusalem Island in the west of the island, named after Leopold Jerusalem, who was using the island in the first half of the 19th century as a bleach. Both islands, Jerusalem and Rohan, called for simplification by the name of the second of them, were used after 1870 by Northwest Railway Austrian company as a railway corridor between Těšnov and Karlin, but also for their support and later for a freight yard.

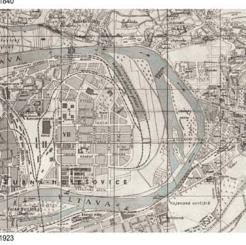
Between Rohan Island and Karlin, the Karlin harbor was in operation since 1822.

The major change for Karlin was the generous regulation of the bed of the Vltava in 1923-1929, the main city harbor was due to better navigability, shortening routes and faster flow rate translated to Holešovice and partly to Llbeň. The Karlin harbor was canceled. The freight yard on Rohan Island lost its fuction after the establishment of the central cargo station in Žižkov as well. Railway company left finally the area in the mid eighties.

An extensive area of river floodplain called Maniny that originally belonged to Holešovice has been partly taken over by the new trough, and partly connected with Rohan Island during the regulation. Rohan Island lost the river touch in the northeast and was associated with Libeń Island and Libeń itself by drying the old riverbed. The river arm, where the Karlin harbor was originally operated, was retained as a water trough clutch after the transfer. It was completely covered in the mid-fifties of the 20th century.

In the decades after 1930, a vast territory of the Karlin bank, called Rohan Island, but made up of linked historical islands and filled-in river arms, became territory of dumps, warehouses, parking lay-by, concrete mixing, simply dismal industrial wilderness. Excavated soil from construction of the underground was exported there. Ordinary citizens of Prague had no idea about the existence of a large space near the city center due to high impenetrable thickets. There was no reason to go



















Maniny, view from Libeň, 1923

view from the Olympik hotel, 1986



The Invalidovna Building today



Ruston Factory after 1850



Ruston Factory after 1900



Ruston Factory today



Invalidovna Housing Estate



Invalidovna Housing Estate - contemporary maquette



Invalidovna Housing Estate - sculpture at the comercial center



Olympic complex study, 1971

HISTORY OF GREAT PLANS

THE INVALIDOVNA BUILDING

Invalidovna was built from 1731 to 37 as a dormitory for war invalids (veterans) by Kilian (gnac Dienzenhoffer. Its model was Les Invalides, a building for veterans inaugurated in Paris in 1679. Only a ninth of the original design was ever completed. About 1200 inmates lived there. In 1935 all inhabitants were moved to another "invalidovna", at Hofice, and the building was used by the Czech army. It was used as an army archive. The building was damaged by a flood in 2002, most of the archive materials was destroyed. The building currently awaits an expensive reconstruction. One possible future use is as a part of the Philosophical Faculty of the Charles University.

RUSTON FACTORY

"Rustonka" is one of the oldest industrial factories in Prague. The first buildings were built up in the Karlin district in the 30's of the 19th century. The name is according to Joseph John Ruston, who was the owner since 1850. Most of the factory buildings were constructed in his time. Various steel structures, steam engines, etc. were produced there. Machinery was significantly involved with such structures as no longer existing two Prague's bridges, the catwalk at the Rudolfinum (now the site of Mánes Bridge) and the Chain Franz Joseph I Bridge (now the site of Stefánik Bridge).

Currently, just the boiler house with its 42 m high oktagonal chimney remains. The chimney is one of the oldest in the city.

INVALIDOVNA HOUSING ESTATE

The experimental housing project, located in the former military training area covering about 13 hectares, with approximately 1260 apartments for 4200 people had been designing since 1959. Its implementation lasted from 1960 to 1965. The architectural design is the work of a group of Prague Project Institute led by the architect Josef Polák, urban design architects were Jiri Novotny, Stanislav Horak, Frantisek Smolik.

The original housing project extends from the primary school which is on the same level as the Barcque Invalidovna Building, to the foot of Krejcarek. These plans were abandoned. The complex thus consisted of a few different types of residential buildings, a comercial center, a black oil boiler room, a kindergarten and an elementary school. From 1964 to 1970 the Olympik Hotel supplemented the project.

The eight chessboard associated ground pavilions of kindergarten for 155 children had disappeared in the flood.

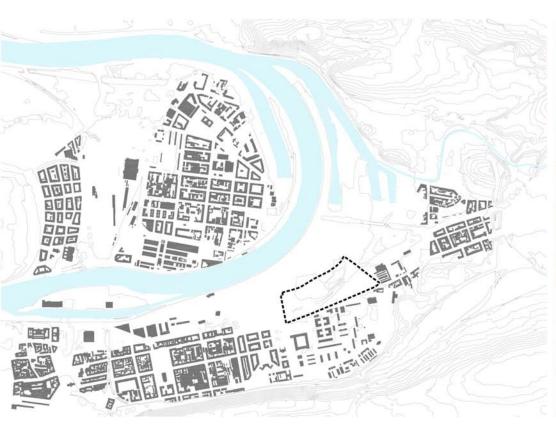
What was the experiment? The advanced panel construction, which due to the large, 6m, allowed a new free layout of the apartments with strip windows. Experimental panel system led to the remarkable variability of prefabricated houses: stair houses, terraced houses, houses with duplexes. It released the facade. The residential buildings have no basement.

The Expo Building, the dominant of the estate, was designed as a hotel house. It offered furnished apartments for temporary housing and some services. The building has been however taken over by permanent residents. An innovative feature of this construction is aluminum trim, which is now historically protected.

THE OLYMPIC GAMES IN PRAGUE

There were a serious talks about The Olympics in Prague since 1968. An architectural competition was announced in 1971. It was won by Jaroslav Paroubek (the CTU faculty in Dejvice, The Praha hotel in Hanspaulka), Arnošt Navrátil and Ludék Todi. The Olympic center was located on the Rohan Island, the stadium should have used the soil from the metro construction as a modelated tribunes as well as the flood protection. The white line of the edge would only be seen from a distance. It resembled a little later formed Olympic complex in Munich (1972), only the original roof design (engineer Frei Otto) is not here. The official request for the nomination from Prague was for the Olympics in 1980, Moscow beat us. The Olympic Hotel is the only building completed of the abandoned Olympic complex.

_TOPOGRAPHY __GEOLOGY







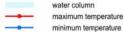
_THE RIVER IN 1840 __THE RIVER TODAY _FLOOD PLAINS



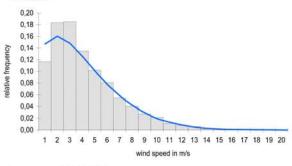
MICROCLIMATE

Temperature and rain





Wind speed



measured data
theoretical distribution

The wind speed measured at the meteorological station Prague-Ruzyně in the years 1994-1999.

Wind direction

Direct.	N	NE	E	SE	S	SW	W	NW	calm
%	11.2	4.9	12.3	4.3	8.1	16.7	16.0	6.8	19.7

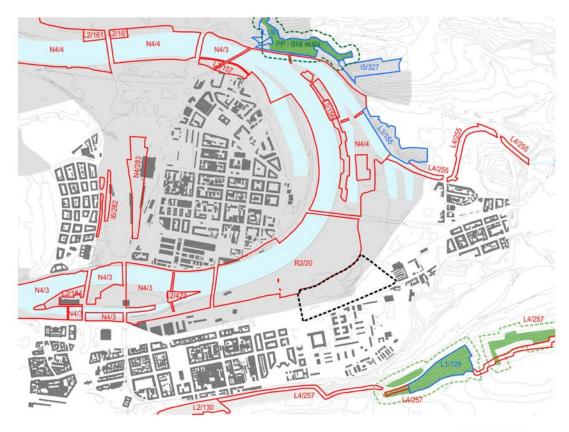
Data for the Main Point Karlin Building.

Modified wind rose

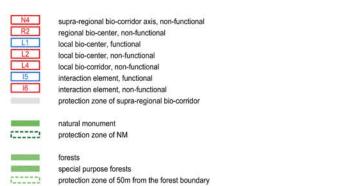


Considering the altitude of 350 - 360 meters above sea level, very good ventilation conditions can be expected. Average wind speeds at a height of 10 m above ground are 4.3 m/s. The modified wind rose data indicates that SWW winds are the most numerous. On the contrary, SE and NE winds are the least numerous.

_TERRITORIAL SYSTEM OF ECOLOGICAL STABILITY _TERRITORIAL AND SPACIES PROTECTION _FORESTS



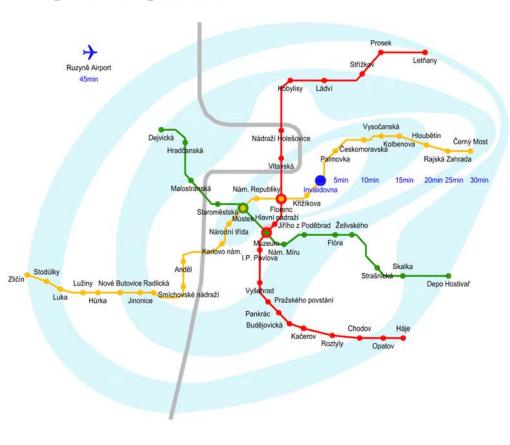
500m



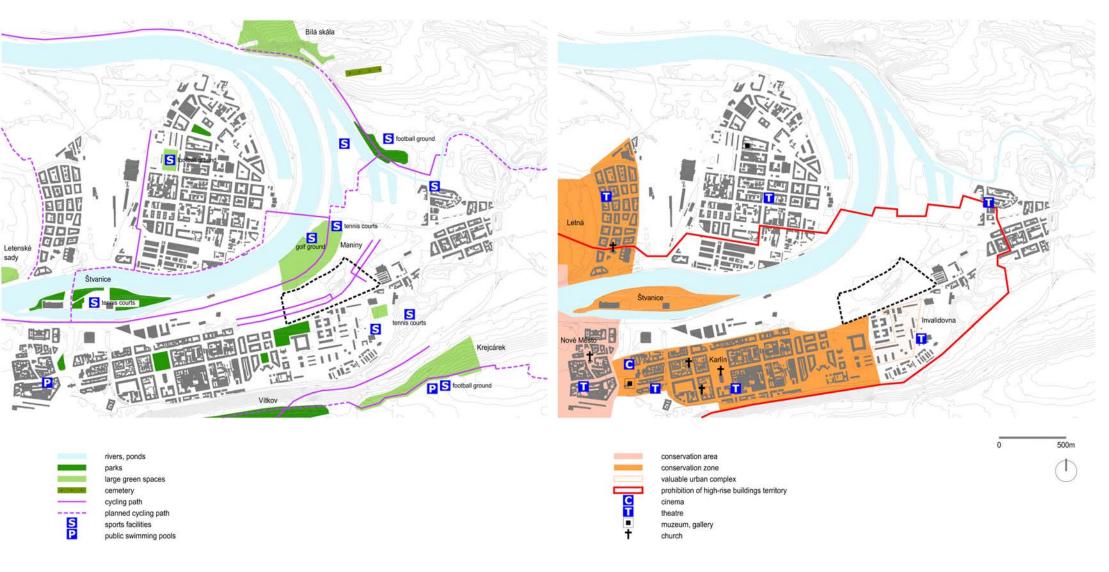
_PUBLIC TRANSPORT AND PARKING

P THE WITH B 500m metro line B metro line C tram route M T B P subway station tram stop bus stop parking lot tram 8 Podbaba - Vítězné nám. - Hradčanská - Strossmayerovo nám. - Nám. Republiky - Florenc - Palmovka - Nádraží Libeň - Starý Hloubětín Kubánské nám. - Albertov - Karlovo nám. - Václavské nám. - Masarykovo nádraží - Florenc - Palmovka - Kobylisy tram 24 Lehovec - Hloubětín - Nádraží Libeň - Palmovka - Florenc - Masarykovo nádraží - Václavské nám. - Lazarská - Výtoň - Nádraží Braník tram 52 (tram 52 goes only at night)

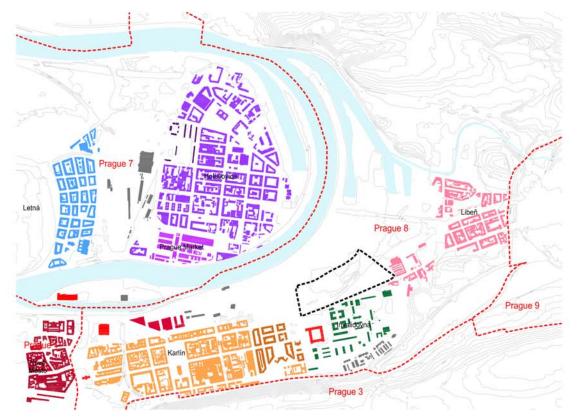
_UNDERGROUND NET _DISTANCE IN TIME



_DAILY RECREATION __SIGTHS AND CULTURE



_CHARACTERISTIC PARTS OF THE CITY



Experimental housing estate Invalidovna, 1960-65 Jiří Novotný, Stanislav Horák, František Šmolík Approximately 1260 apartments for 4200 people



Invalidovna Building, 1731-37 Kilian Ignac Dientzenhoffer 1/9 of the original project



Karlin, founded in 1817



Karlin, around 1903



Holešovice, housing estate from 1950s





Prague Market, around 1880 Previous slaughterhouse

500m

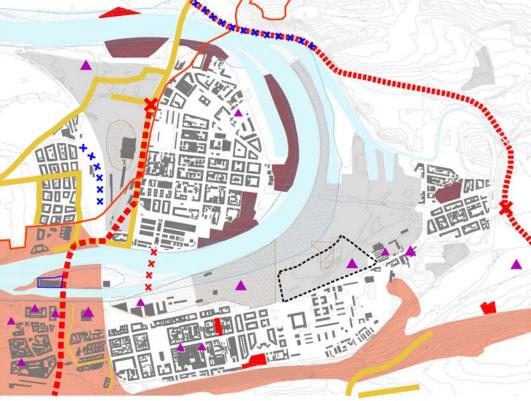


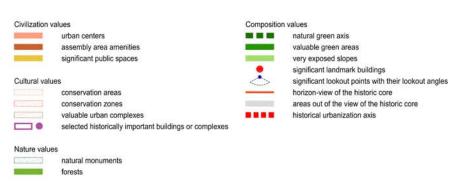
Libeň, known since 1363



_AREA VALUES __AREA PROBLEMS



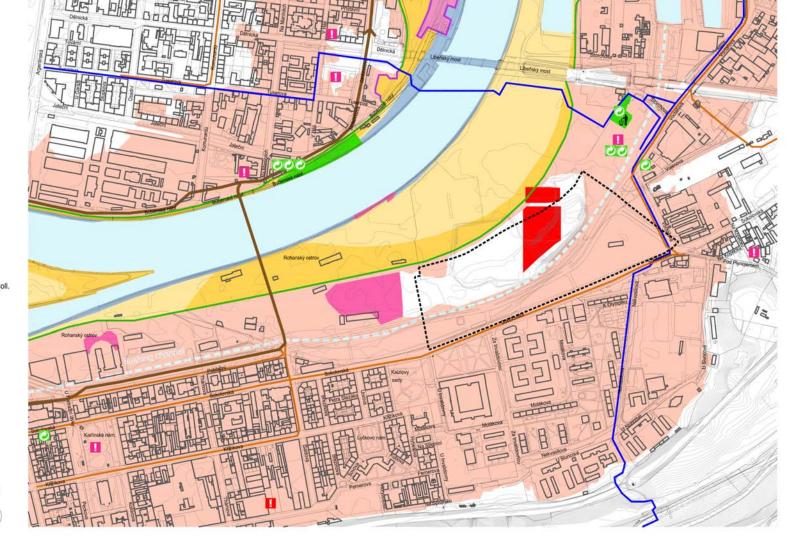


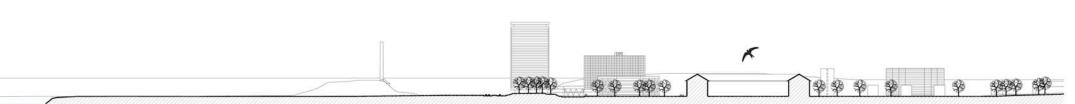


Areas with problems of utilization and conservation of existing values view horizon (the area visible from the historic core) significantly exposed locations from the historic core significant reconstruction areas significant brownfield areas Problems of transport infrastructure problem of north-south arterial specification of the city circle in the eastern part The problems of technical infrastructure incomplete flood protection Other induced problems roads with the creation of queues of vehicles, significant lines source of air pollution operationally critical crossroads point sources of pollution



_WATER AND WASTE MANAGEMENT flushing channel Collection and treatment of wastewater main sewer collector sewer Water supply water supply lines - potable water Floodplains category active floodplain flow floodplain unflow floodplain floodplain under the protection of the city floodplain under individual protection Flood Protection Facilities facilities of flood protection provided by the city facilities of flood protection provided individually Waste management areas for the waste management facilities for the waste management according to the law No.185/2001 Coll. waste collecting yards Old Ecological Burdens Significant in size (area above 0.5 ha) dump potential contamination Insignificant in size soil contamination potential contamination







_FUNCTIONS OF THE PARTERRE



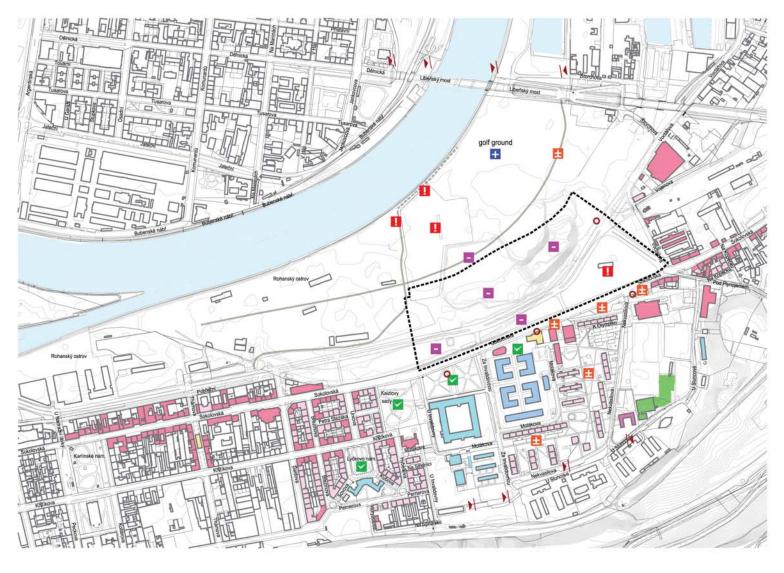
_CONDITIONS OF SPACES

✓±-!

excellent very good good poor

points of the observation of urban occupancy







OV-G SV-G ZVO-H ZVOH DV-G OV-H SV-H SVH YOY G ZMK SV-G ZOB VOP ZVO-H OB G ZVO-G ZVO ZVO OV-H

_MASTER PLAN FROM JUNE 17 2010

OV-G multifunctional generally residential areas

SO3 multifunctional rest areas SP

multifunctional sport areas

SV-H multifunctional generally mixed areas

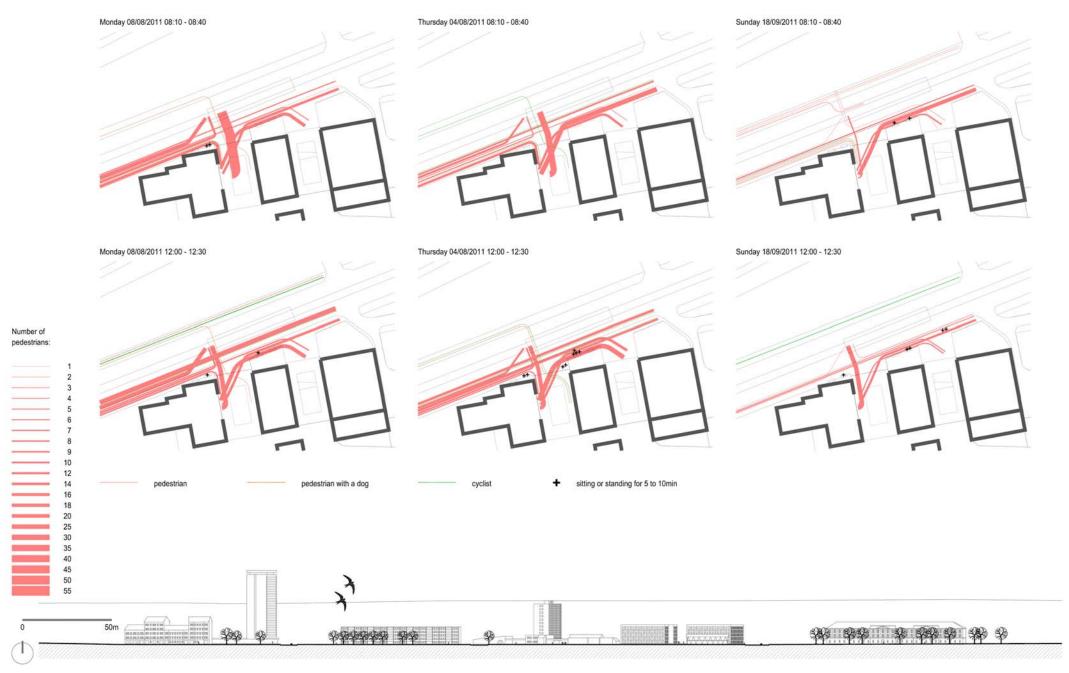
ZVO-H multi-functional areas - others special complexes

mono-functional areas - water flow and areas, navigation channels ZMK mono-functional areas - urban green and landscape

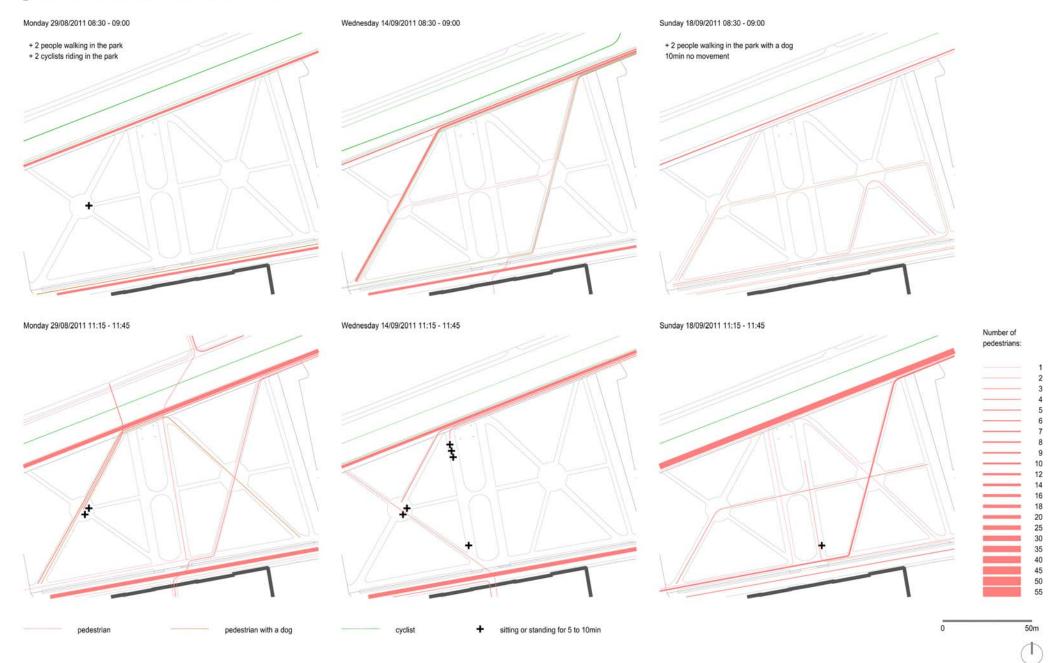
ZP mono-functional areas - parks, historic gardens and cemeteries



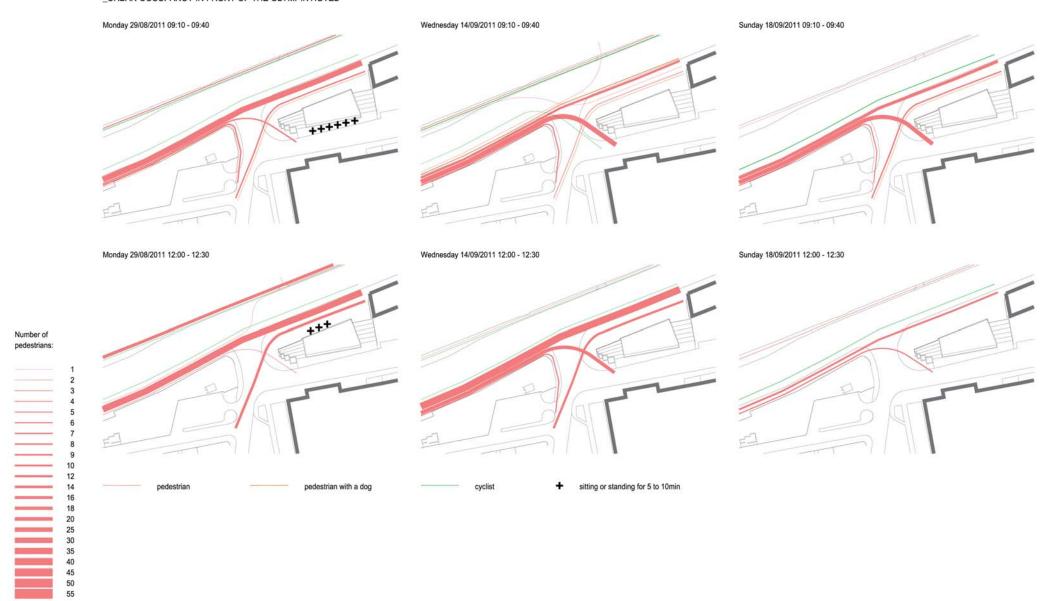
_URBAN OCCUPANCY IN FRONT OF INVALIDOVNA SUBWAY STATION



_URBAN OCCUPANCY IN FRONT OF THE INVALIDOVNA BUILDING



_URBAN OCCUPANCY IN FRONT OF THE OLYMPIK HOTEL



50m

_URBAN OCCUPANCY AT THE CROSSROADS





_PLACE VALUES

Nature values

infiltration surface in built-up area

significant concentration of birds

Civilization values



significant public spaces parks playgrounds schools meeting points

Cultural values

conservation zones valuable urban complexes

selected historically important buildings or complexes architecturally valuable buildings and complexes places of significant events memorial places and war graves

Composition values

significant landmark buildings

significant lookout points with their lookout angles

historical urbanization axis



SWOT ANALYSIS

Strong

- river area

- high lucrativeness in the city

- enough green areas

- traffic connection to the city center

Weak

- connection to the river

- barrier of the Rohanské nábřeží

- fragmental, dangerous cycloways

- dysfunctional USES

- old burdens (junkyard)

- poor condition areas

- dangerous areas

Opportunities - proximity to the center

- unbuilt-up area

- place of daily recreation - the river

- services in the subway station area

- subway station

Threats

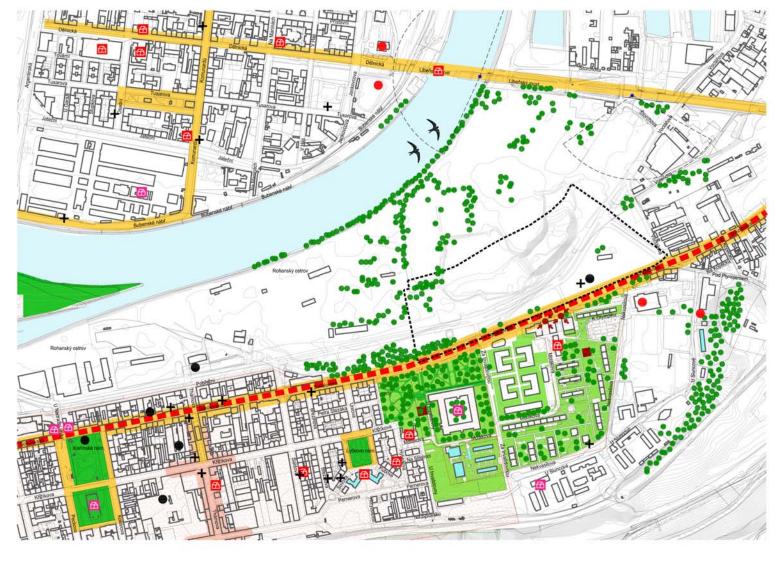
- flooding

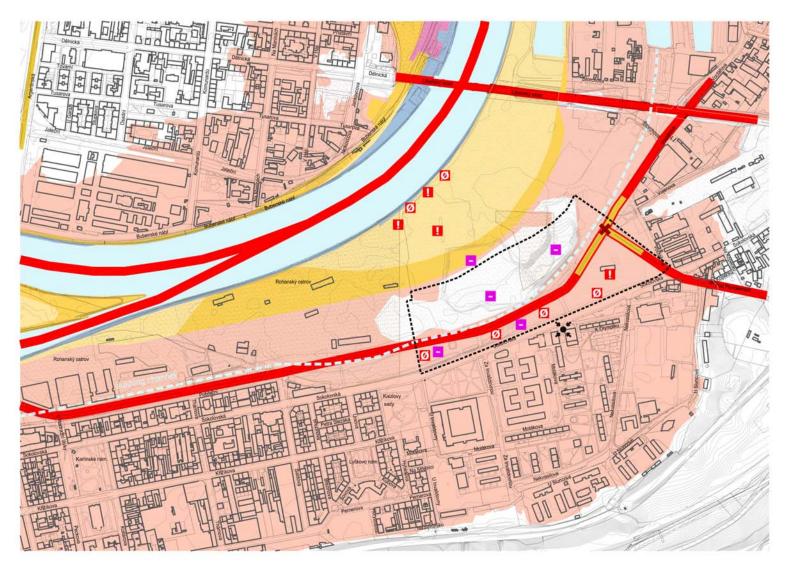
- unsurpassed barriers

- disruption of USES and its prote

- flushing channel disruption

- developer abuse





_PLACE PROBLEMS

Threats in the area

active floodplain flow floodplain unflow floodplain

floodplain under the protection of the city floodplain under individual protection old burdens - the area above 0.5 ha

Social problems

poor conditions areas dangerous areas ignored areas

meeting point of the homeless

roads with the creation of queues of vehicles, significant lines source of air pollution operationally critical crossroads very significant movement barriers

Areas with problems of utilization and conservation of existing values

significant reconstruction areas significant brownfield areas

Karlin brownfield site is unique, it is an opportunity to improve the quality of urban life all over Prague. The main advantage of the area is Invalidovna metro station and a hidden rare green river bank.

Thus the opportunity to improve the quality of life for the people of Prague is a modern large-scale implementation of the park along the river, easily accessible by subway. Such a place is not in Prague. A pleasant walk along the river is possible somewhere in the periphery or just in the cobbled old town center with the absence of greenery.

And a metro station connected with the river? There is Vltavská metro station, but it is as far from being a gateway to one of the strongest symbols of the city-the Vltava River as it can be.

Each site is designed to fulfill some function. My area is ideal for living with all facilities, for symbiotic administration and, of course, for everyday recreation.

After gathering analytical data, I have set five basic goals - fixed guides of my work:

- 1. Eliminate barrier of Rohanské nábřeží
- 2. Open public access to the riverfront as a social and environmental amenity
- 3. Create a friendly urban structure
- 4. Restoring and protecting landscape and natural systems
- 5. Create a riverfront identity that represents a good address in the city

In the first phase, it was important to analyze the impact of surroundings: the housing estate Invalidovna and the area between the streets U Rustonka and Zenklova. The housing estate Invalidovna is a remarkable unit, but lacks essential features of European cities: the intensity, mix of functions. The second area is messy, awaiting redevelopment. Wider urban area lacks the character, the center. Thus from the beginning ideal for my area seemed development based on multi-functional blocks - providing the missing order, intensity and feeling of the city.

Achieving goals and blocks-base development were my concept.

1. Eliminate barrier of Rohanské nábřeží

Nowadays, Rohanské nábřeží is the number 1 barrier in the area. People do not perceive the territory on the other side. They ignore it. Life ends from Rohanské nábřeží to the north. But one side has the subway and the other has the river, it is a very promising constellation, the link and uniting the character of the both sides of the boulevard are missing.

2. Open public access to the riverfront as a social and environmental amenity. There is the river to the north of the tube and it is not visible, there is no reference to it, no connection. For the general public, the main solution represents once again an access road. For residents it is orientation of the day zones of the flats towards the river, releasing solid facades and turning them a bit in the directions of unique perspectives - the river, Libeň Bridge, The Castle...

3. Create a friendly urban structure

Compliance of this goal has many factors. Important for me were mainly multifunction, human scale and easy orientation. In the next step of designing it would be materials.



4. Restoring and protecting landscape and natural systems

The river originally flowed on the territory. Nowadays the river from time to time recalls its demands by unpleasant flooding. Water is dynamic and the river needs its space. My development ends with the line of blocks to the north of Rohanské nábřeží. I overtake a new riverbed from the city master plan. I limit the access to the newly created island with a single bridge to interfere less with natural processes associated with the river.

The area is disturbed by added soil during the tube construction - natural living water runoff from the hills to the valley and the river does not work. I restore it to the north of Rohanské nábřeží as much as possible. I open a large area yards of blocks towards the river.

Create a riverfront identity that represents a good address in the city This goal is a byproduct of the compliance of the previous goals. Goal 1: Eliminate barrier of Rohanské nábřeží
continuity of local connections

unifying the character of the both side of the road

Goal 2: Open public access to the riverfront as a social and environmental amenity

linear connections visual connections

Goal 3: Create a friendly urban structure

similar block size
block height
orientation views

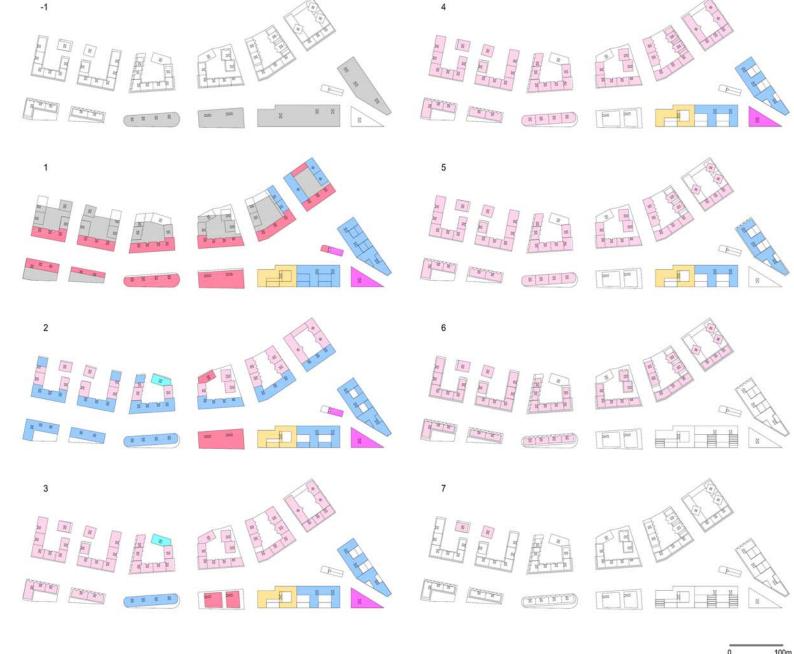
Goal 4: Restoring and protecting landscape and natural systems

the river penetrating the city

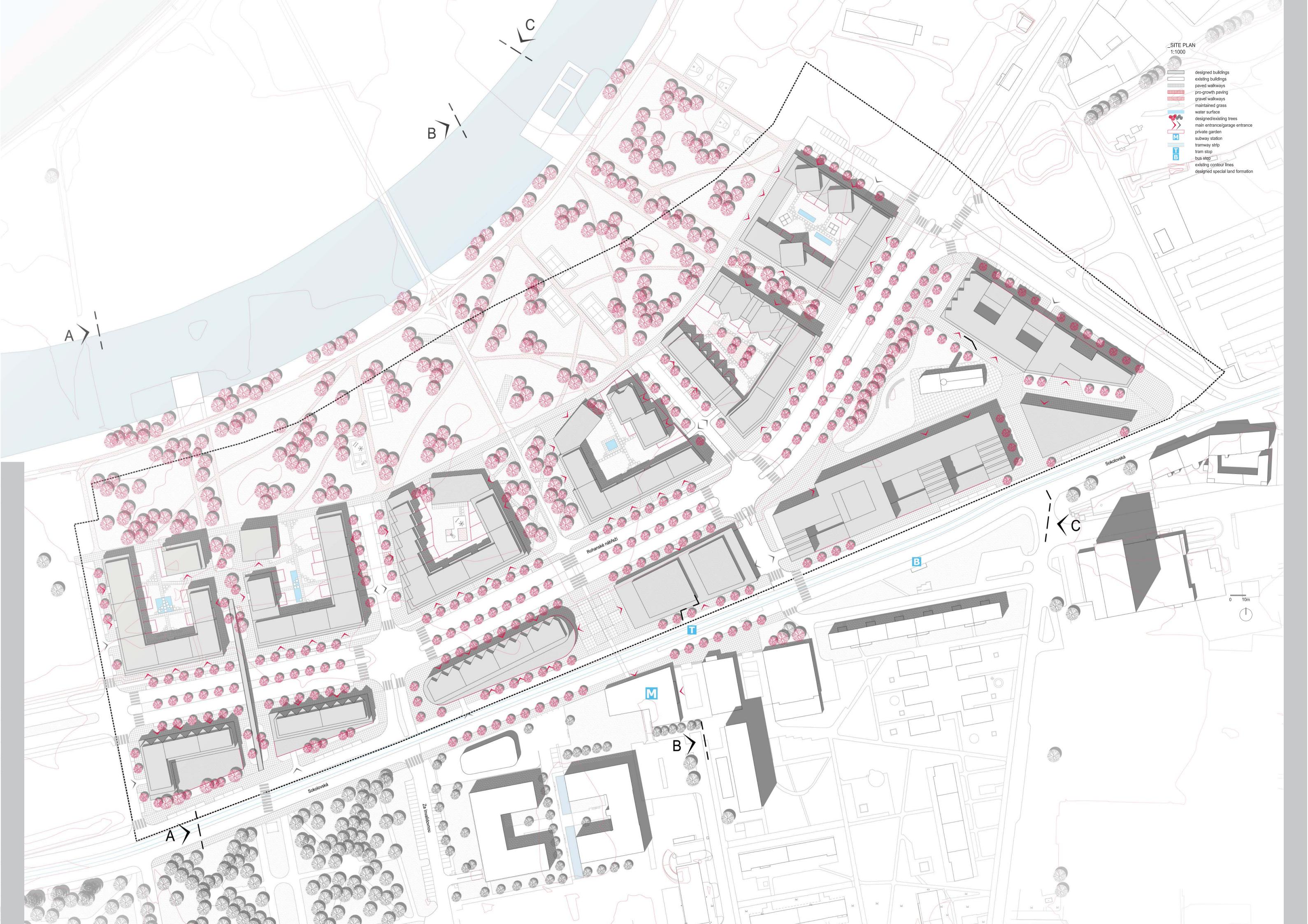


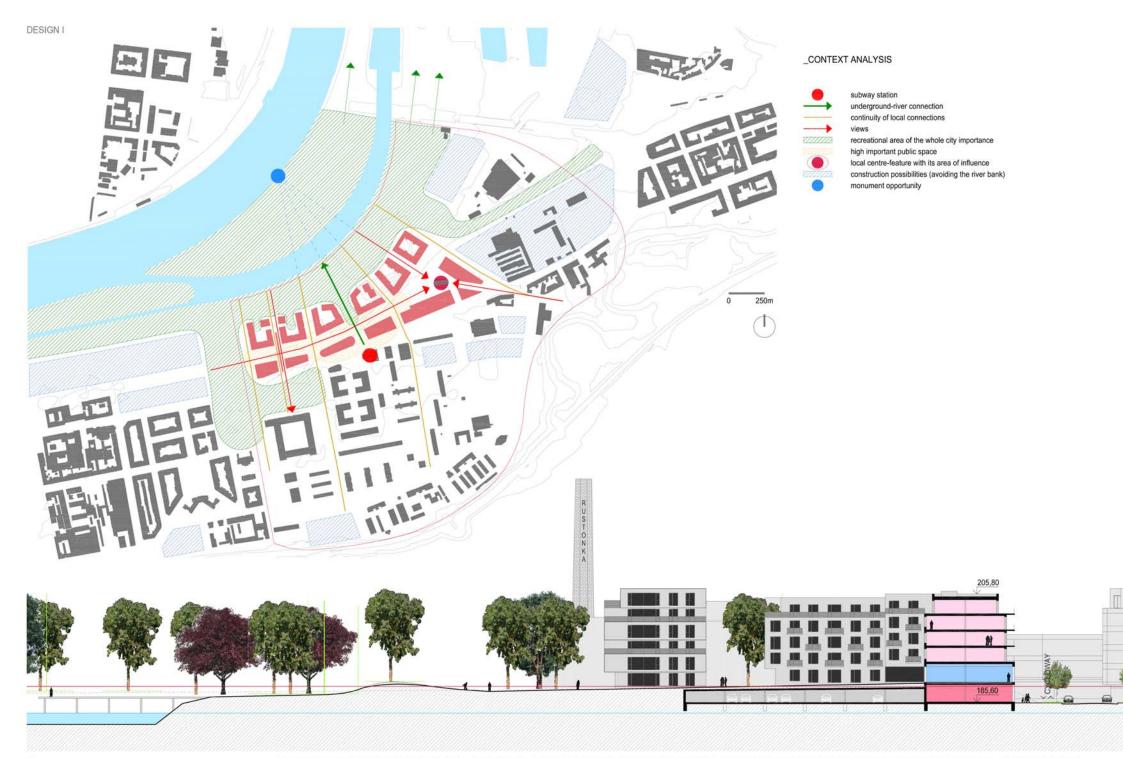
_FUNCTIONS



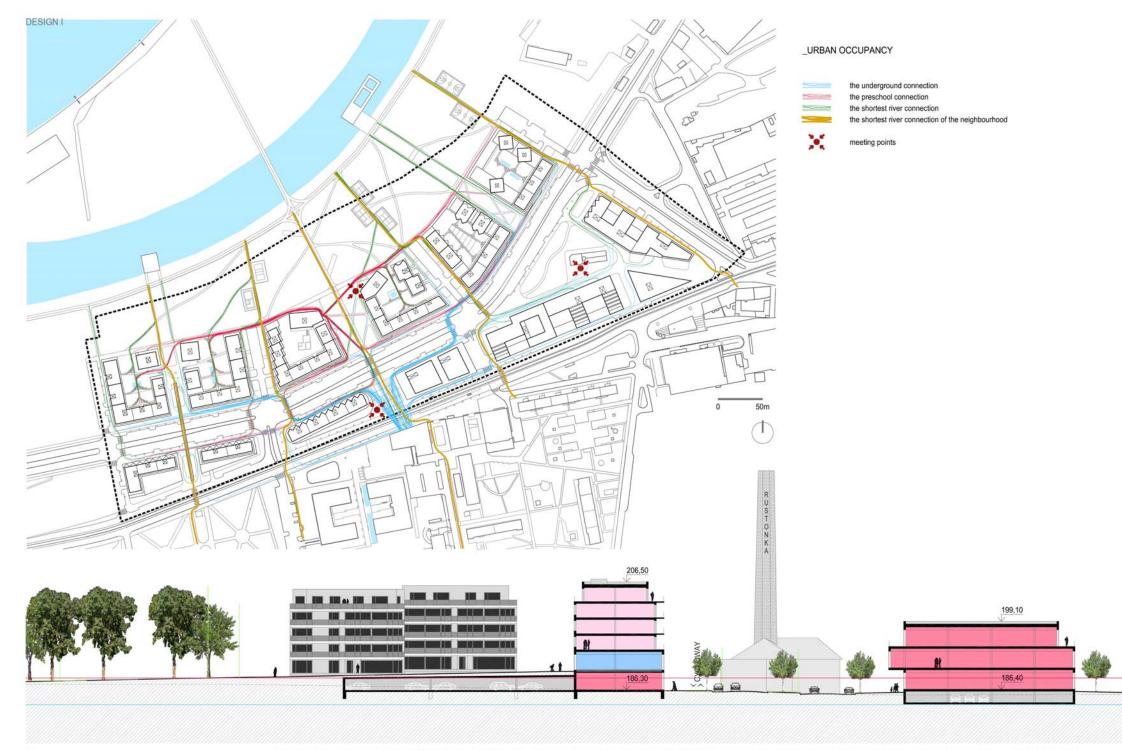




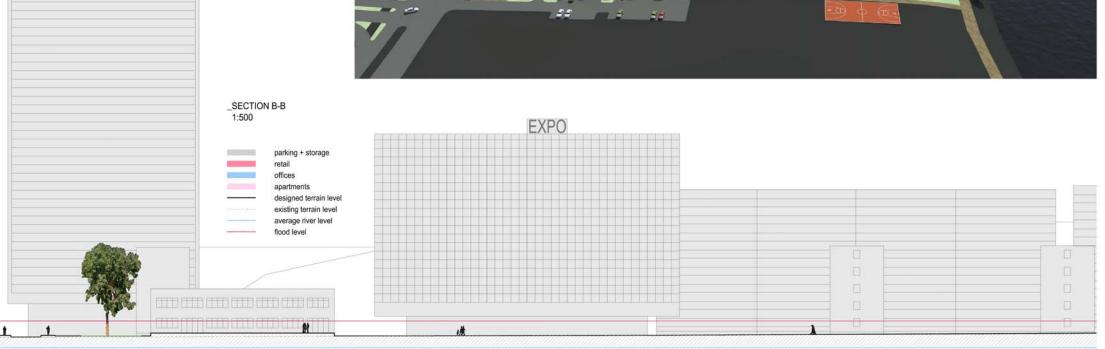


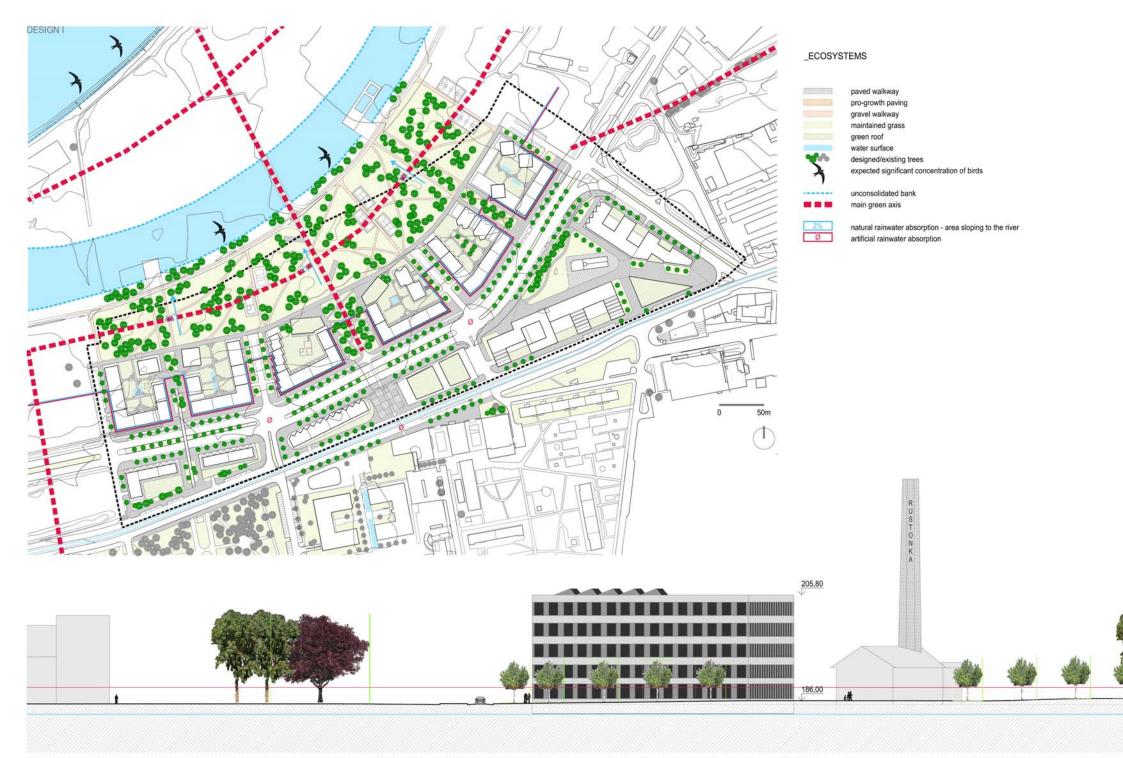










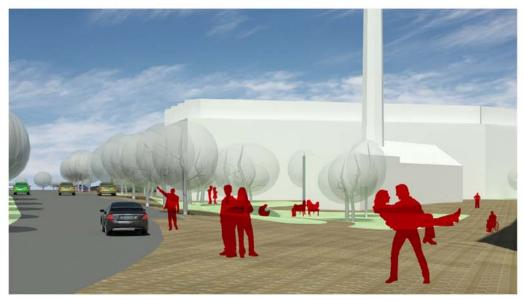


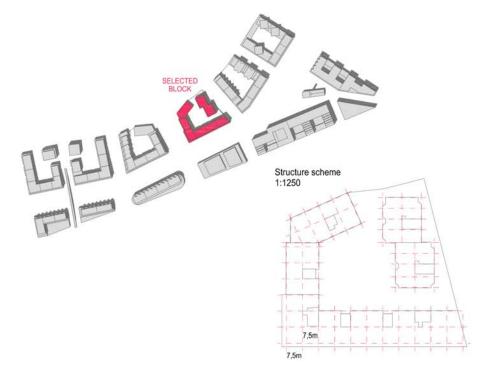


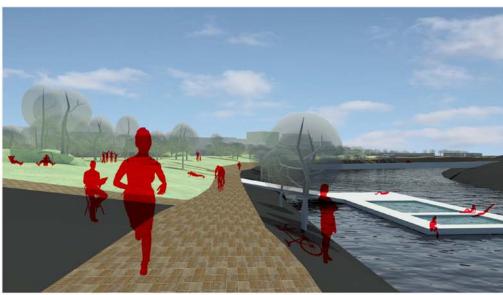
parking + storage retail offices apartments designed terrain level existing terrain level average river level flood level

_SECTION C-C 1:500

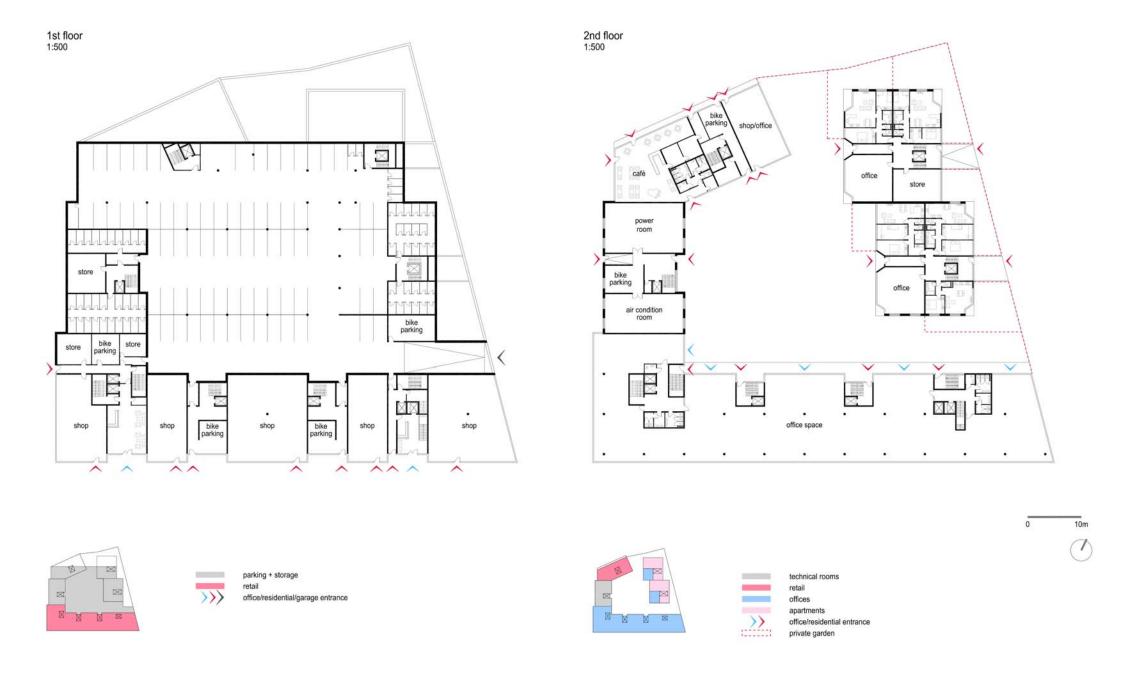


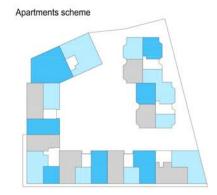




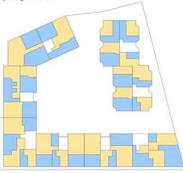








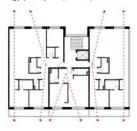
Day&night zones



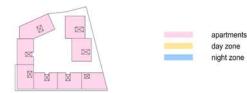
Main typology principles _circulation

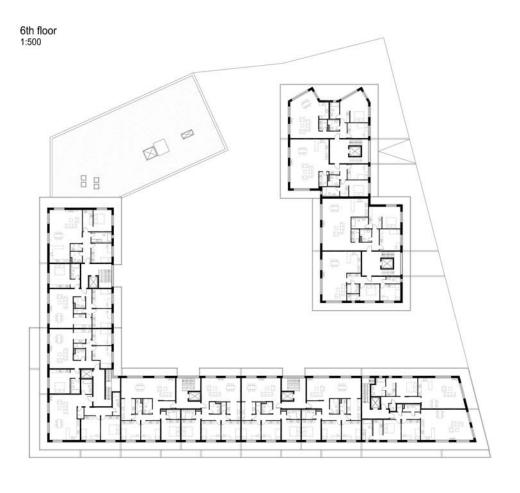


Main typology principles _visual possibilities













night zone



ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE **FAKULTA ARCHITEKTURY**

AUTOR, DIPLOMANT: Kristýna Sedláková AR 2011/2012, ZS

NÁZEV DIPLOMOVÉ PRÁCE:

PŘEMĚNA ROHANSKÉHO NÁBŘEŽÍ – ŽIVOT U ŘEKY

CONVERSION OF ROHANSKÉ NÁBŘEŽÍ – LIFE BY THE RIVER

JAZYK PRÁCE: angličtina

Vedoucí práce: Oponent práce:	Henry W. A. Hanson, M.A., AIA, ASLA Ústav: 15121 Ústav prostorového plánování Ing. arch. Marcela Bílková
Klíčová slova (česká):	Karlín, řeka
Anotace (česká):	V pražském Karlíně došlo v poslední době k mnoha změnám, zejména po povodn v roce 2002. Tyto změny jsou komplexní, v rámci již existující i nově vznikající dopravní infrastruktury. Tento projekt se snaží docilit rovnováhy a konečného sjednocení jednotlivých složek prostředí a navrhnout nový vývoj mezi řekou a stávajícím okolí. Základem návrhu jsou aspekty trvale udržitelného rozvoje.
Anotace (anglická):	The Karlin district of Prague has recently seen rapid change, particularly since the flood of 2002. These changes are cumulative and in the framework of previously existing and new transportation infrastructure. This project seeks to balance and unify the different components of the surroundings and propose a new development between the river and the existing neighborhood. Fundamental to thi proposal are considerations of sustainability.

Prohlášení autora

Prohlašuji, že jsem předloženou diplomovou práci vypracoval samostatně a že jsem uvedl veškeré použité informační zdroje v souladu s "Metodickým pokynem o etické přípravě vysokoškolských závěrečných prací."

V Praze dne 6. ledna 2012

podpis autora-diplomanta

Thanks to Henry Hanson, my family, Kamila Samková, Michaela Hojovcová and Filip Šauer.

Kristýna Sedláková Doubravčická 11/2126 100 00. Praha 10

ksedlakova@centrum.cz +420 728 649 356