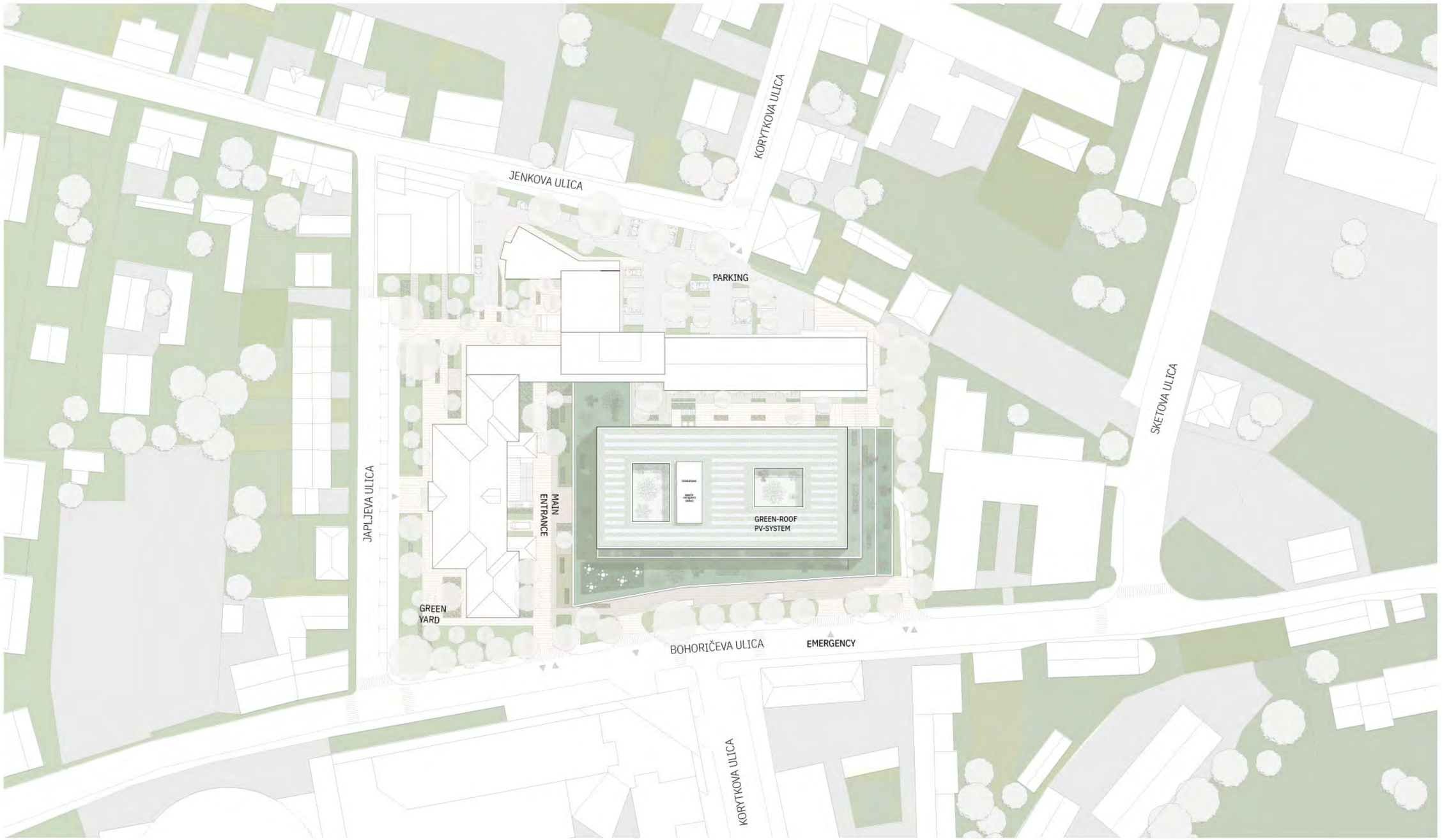
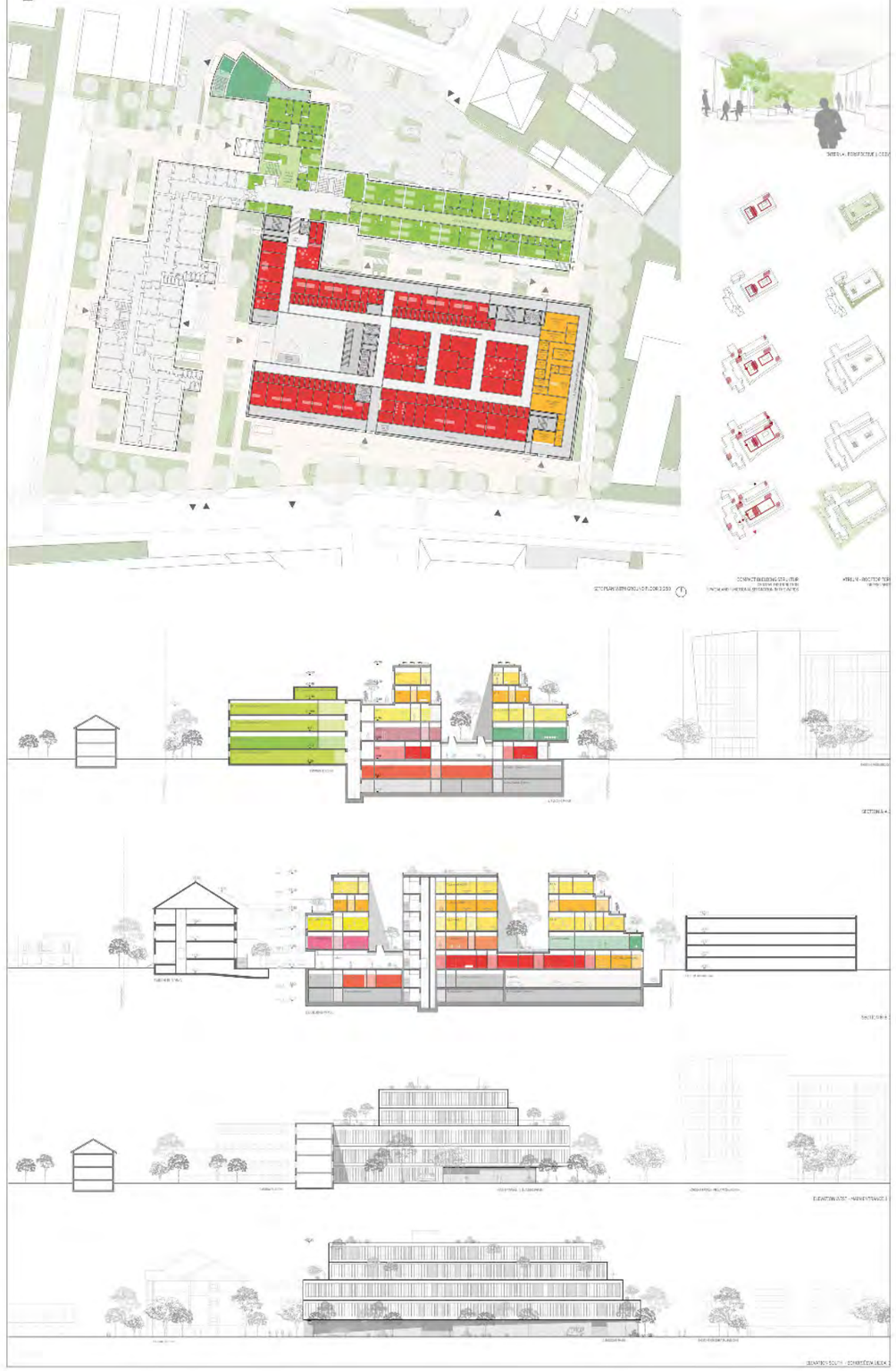


THE EXTENSION WORK TO THE UKC LJUBLJANA INFECTION CLINIC

The extension building to the Clinic for infectious diseases and febrile conditions in the University medical centre Ljubljana

1

JK082



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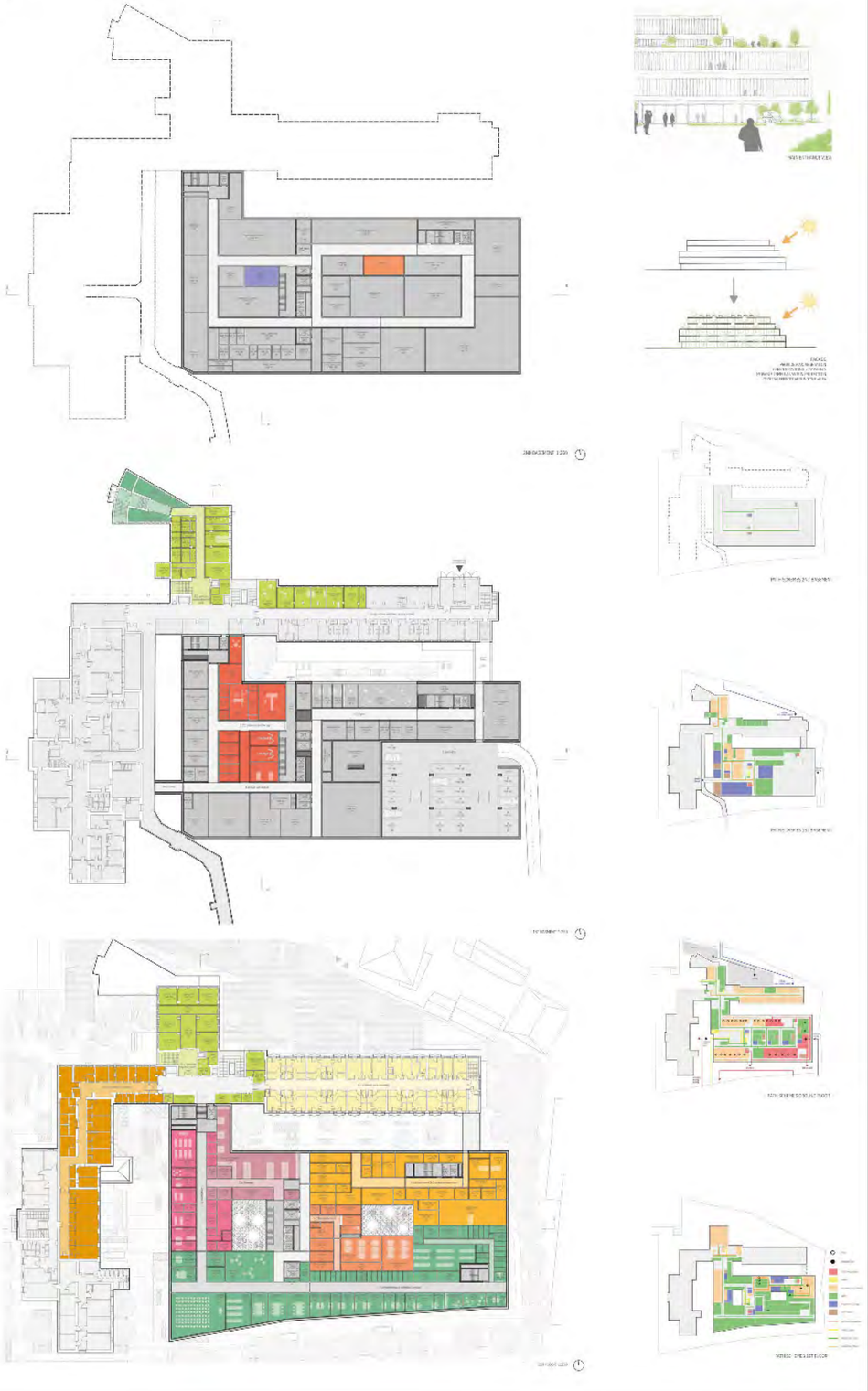

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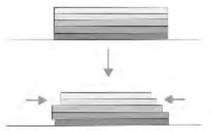

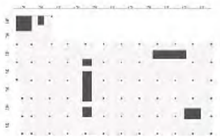

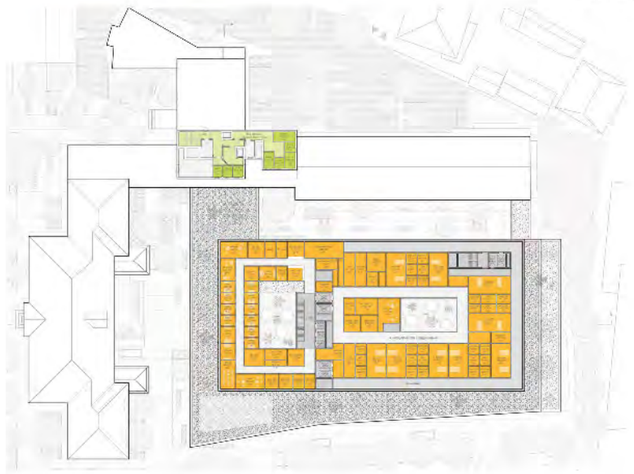

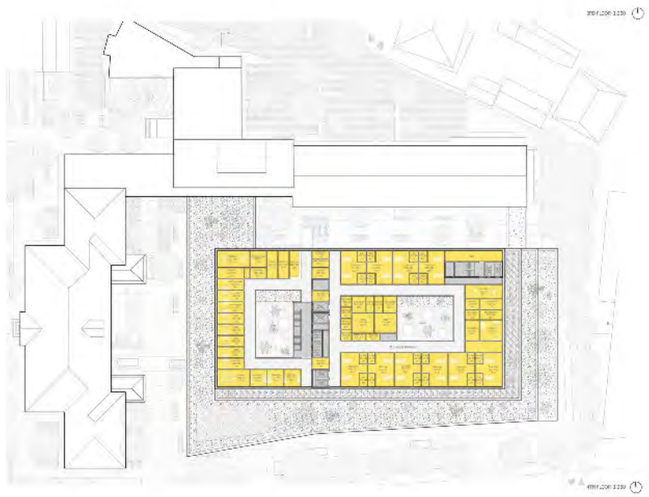

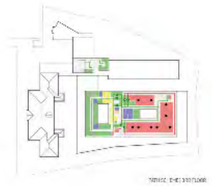

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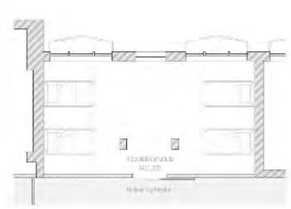
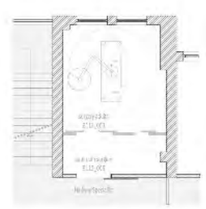
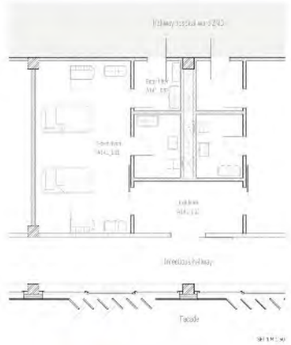
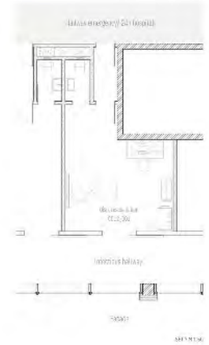
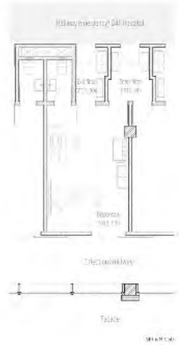
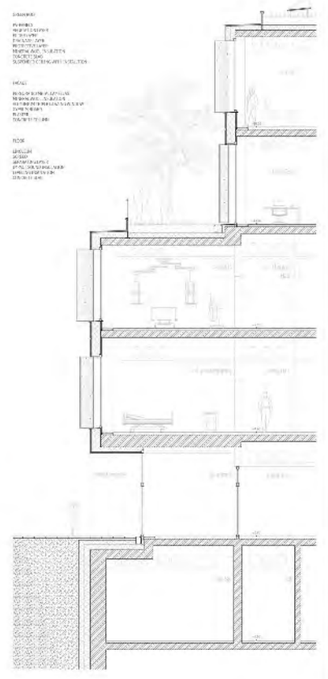












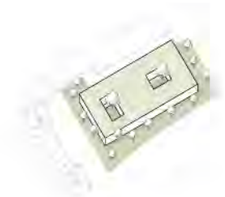
1. + 2. BUILDING PHASE

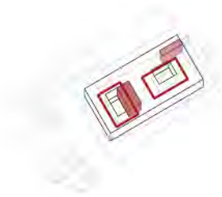
The competition property is located in a transition area and area of tension between the adjoining university clinic complex to the south, with a very high, large-scale development of the character of a big city, some of which clearly exceeds the high-rise building line, and a small, low-rise residential development adjoining it to the north, some of which is almost village-like.
To the west is the historic Fabiani building of the gastroenterological clinic that with its axially symmetrical building structure and the large hipped roofs demands the respectful distance and solitary position it deserves.

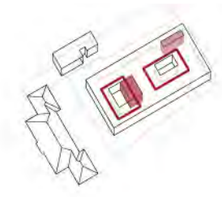
The second phase of the competition focuses on the first construction phase.
1st building phase:
- Creation of a new building next to the existing building that will remain in operation in a form that also in this constellation as a whole appears structurally and functionally comprehensible and self-evident.
- Integration of an exorbitant space requirement in a partial property with a very limited area, without the adjoining building being impaired in function and appearance.
- Create a clear zoning and structure inside to clearly separate the different departments and requirements (infectious - non-infectious - unclean).
- Inner courtyards and setbacks with roof terraces give the impression of spaciousness and offer staff and patients a pleasant atmosphere with a high quality of stay.

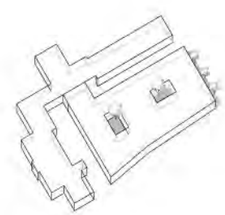
2nd building phase:
- Finding a large form harmonizing with the 1st building phase that covers the remaining large space requirements, taking into account the low northern existing buildings.

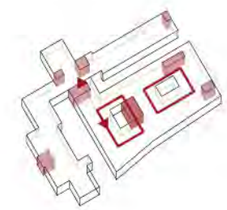
The goal is to design a compact building, which on the one hand offers a high quality of stay for the employees and patients with atriums, green gardens, roof terraces, and on the other hand creates a good orientation in the daily use with a main magistrale and „loops“, which delimit the clean and infected paths and allow a maximum compactness with short distances.

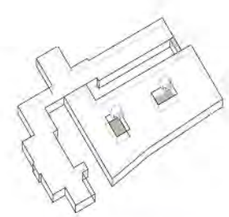


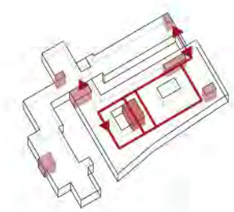


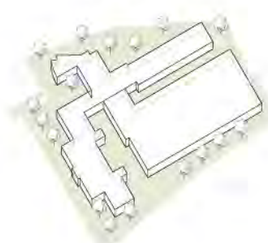


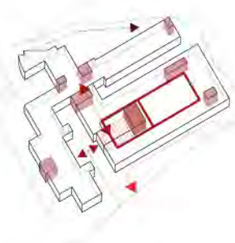










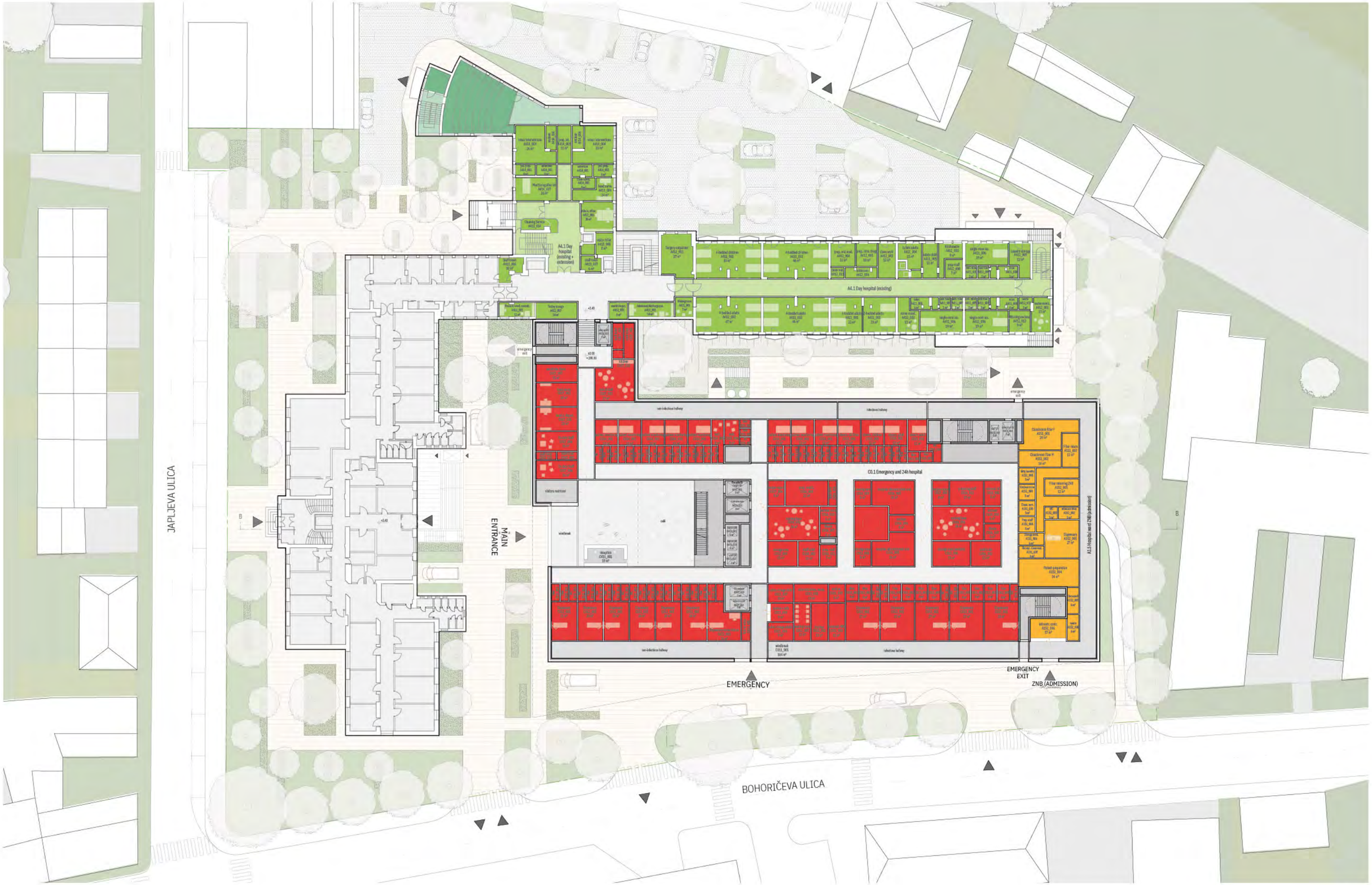


ATRIUM - ROOFTOP TERRACE

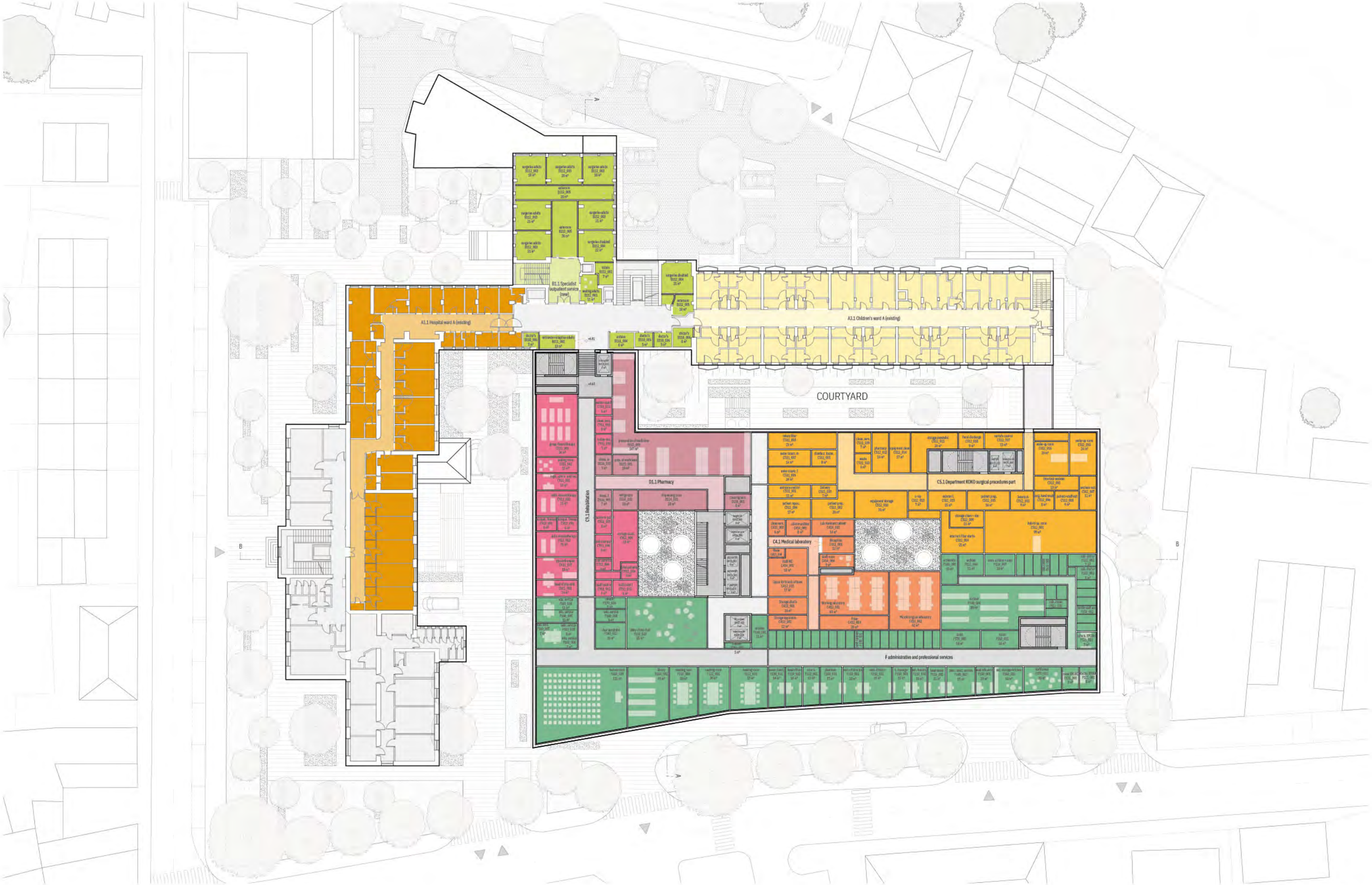
COMPACT BUILDING STRUKTUR - CENTRAL DISTRIBUTION

INTERNAL PERSPECTIVE (LOBBY)

1. BUILDING PHASE

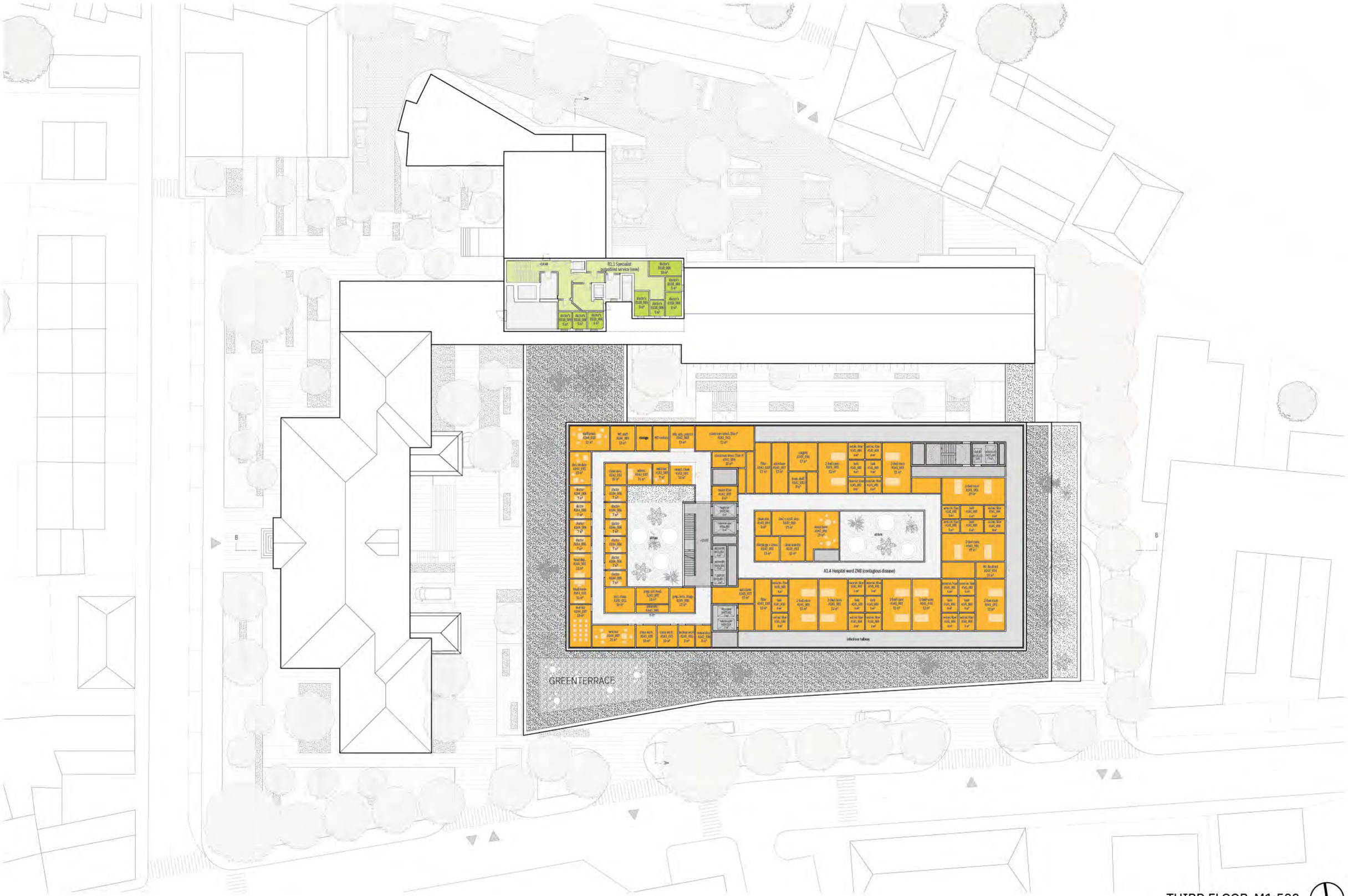


SITE PLAN (GROUND FLOOR LEVEL) M1:500

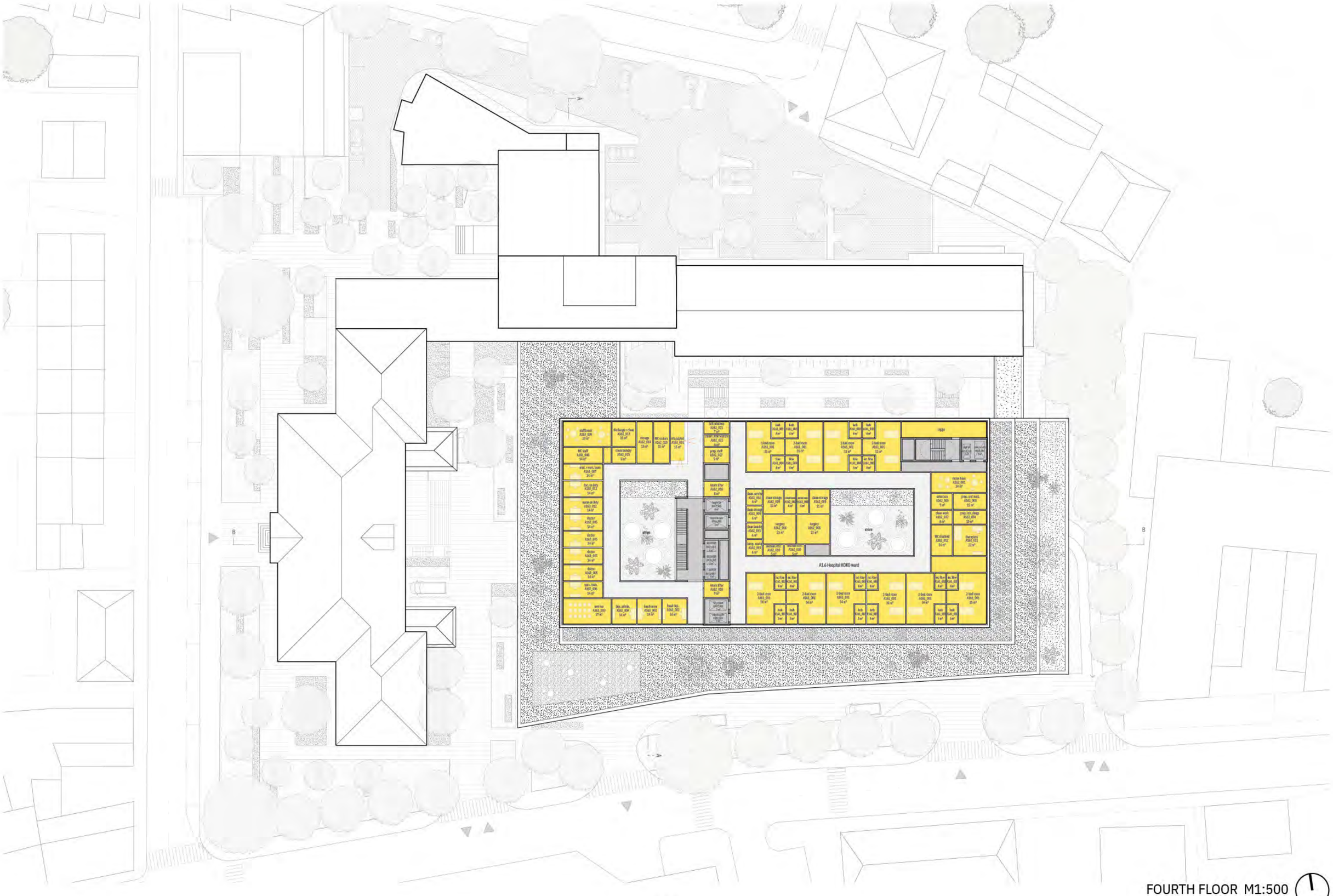


FIRST FLOOR M1:500

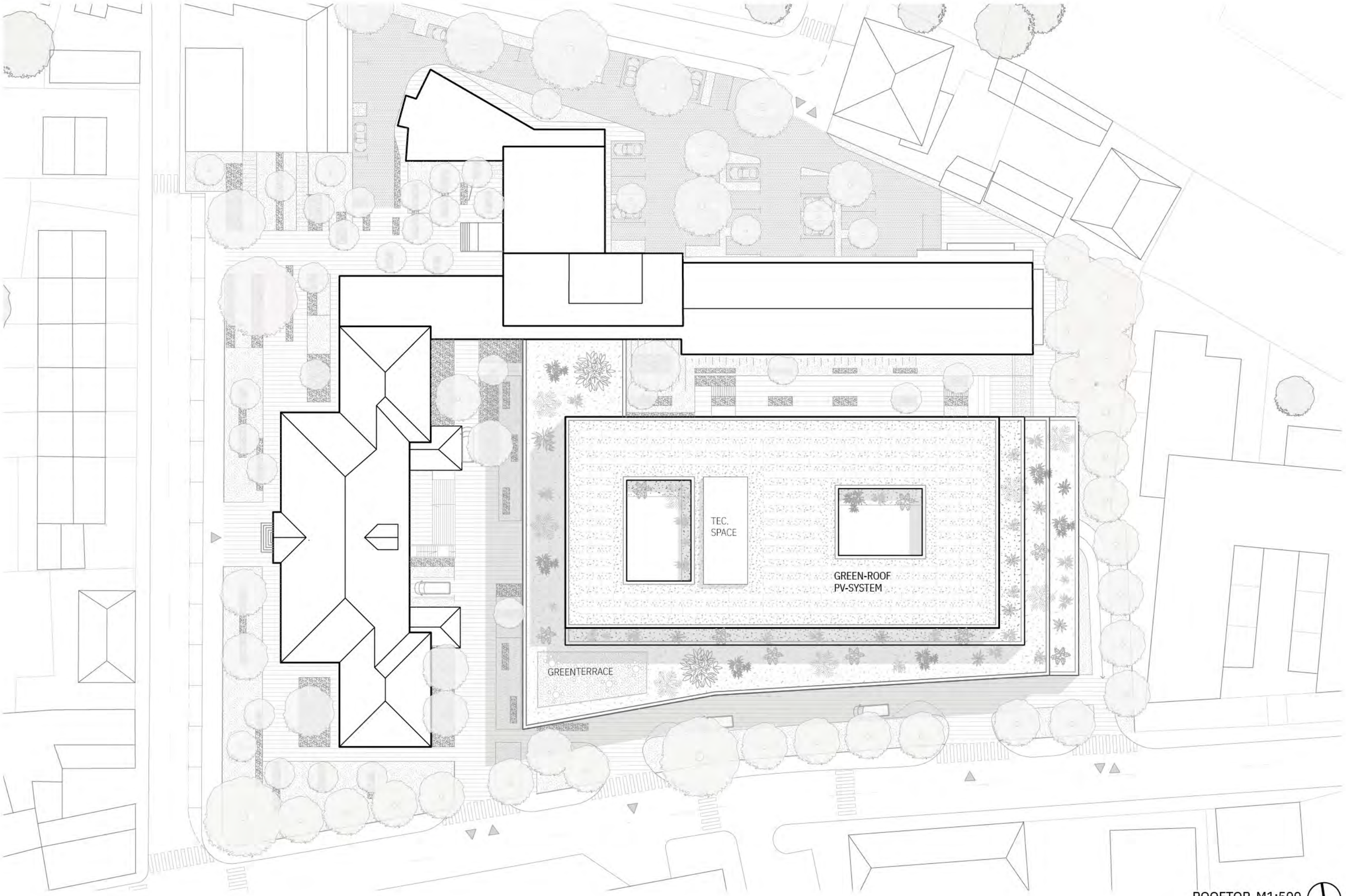
SECOND FLOOR M1:500



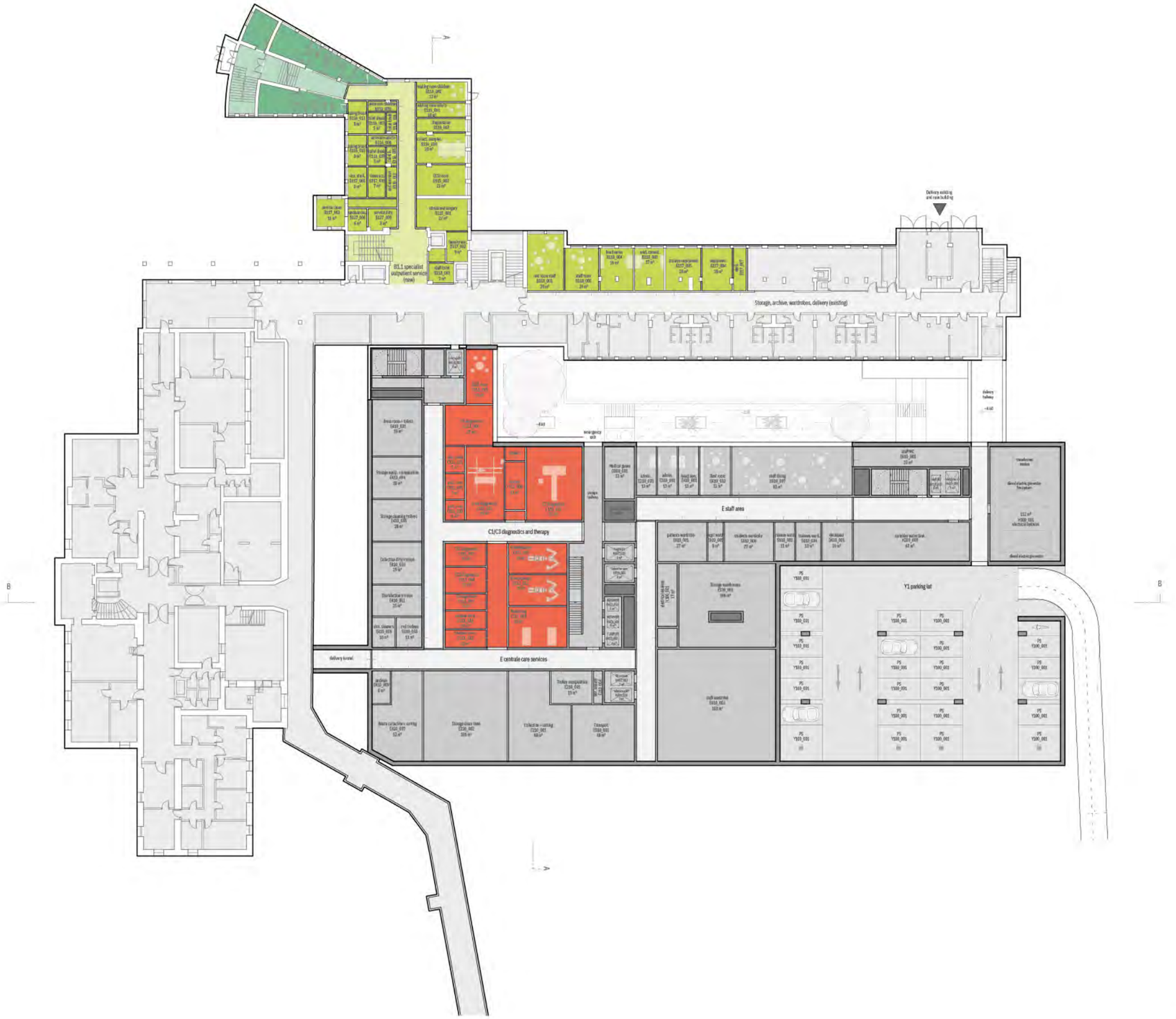
THIRD FLOOR M1:500



FOURTH FLOOR M1:500



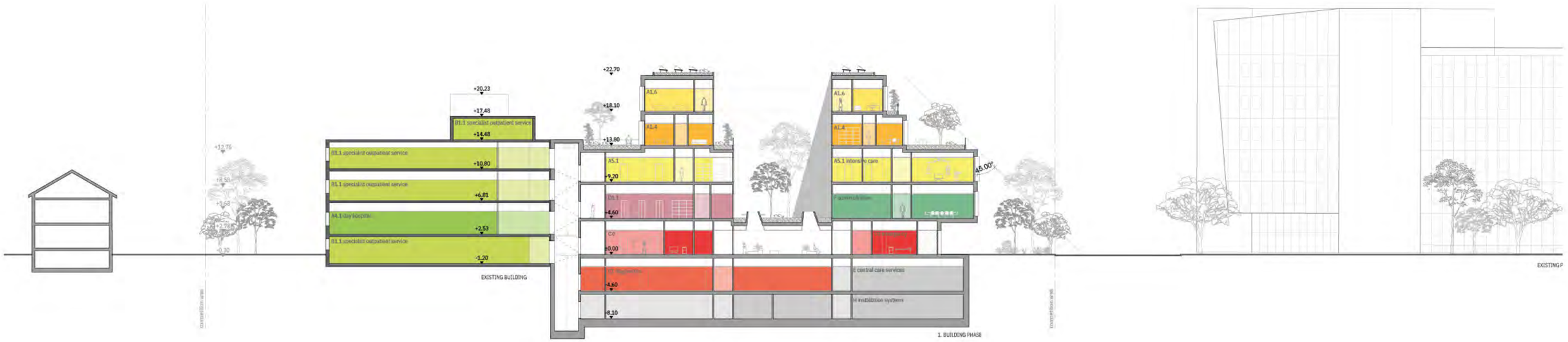
ROOFTOP M1:500



BASEMENT -1 M1:500

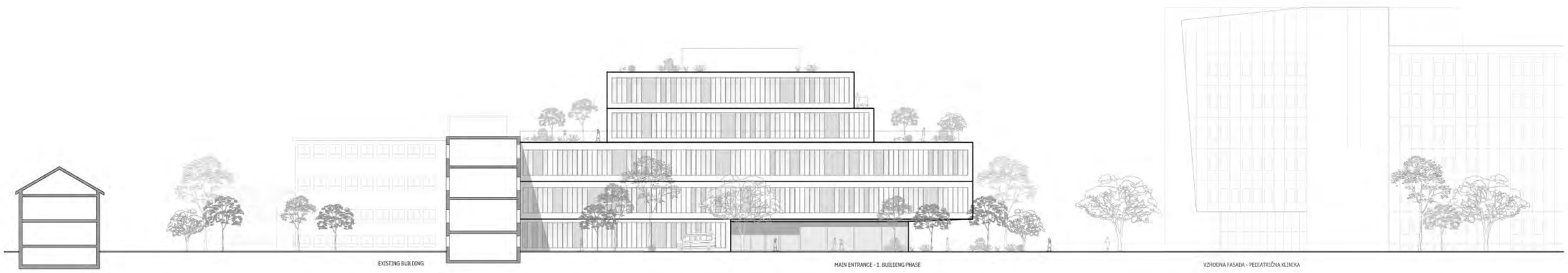
BASEMENT -2 M1:500

SECTION BB M1:500

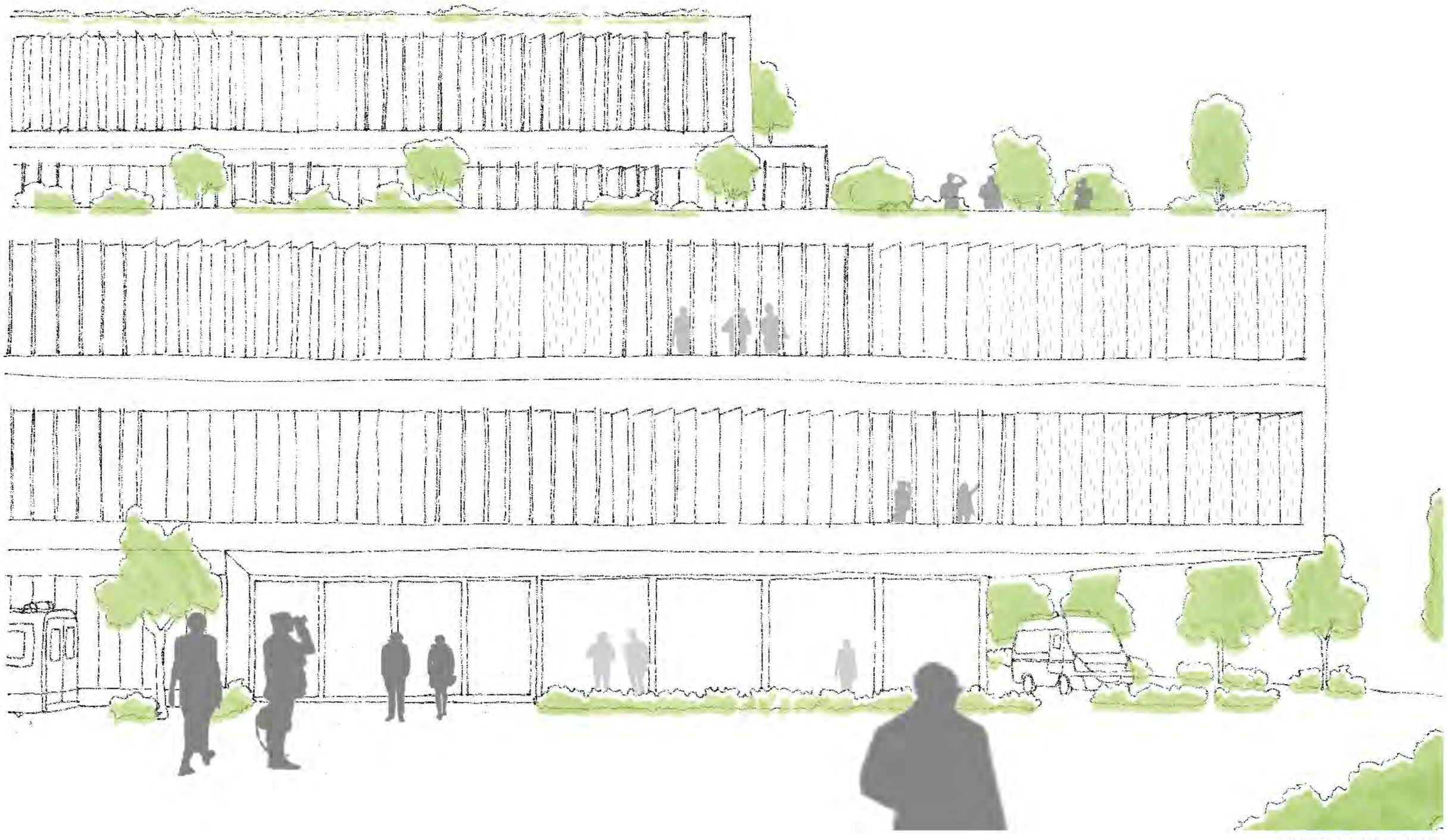


SECTION AA M1:500

ELEVATION BOHORIČEVA ULICA M1:500



ELEVATION MAIN ENTRANCE M1:500



MAIN ENTRANCE VIEW

GREEN ROOF

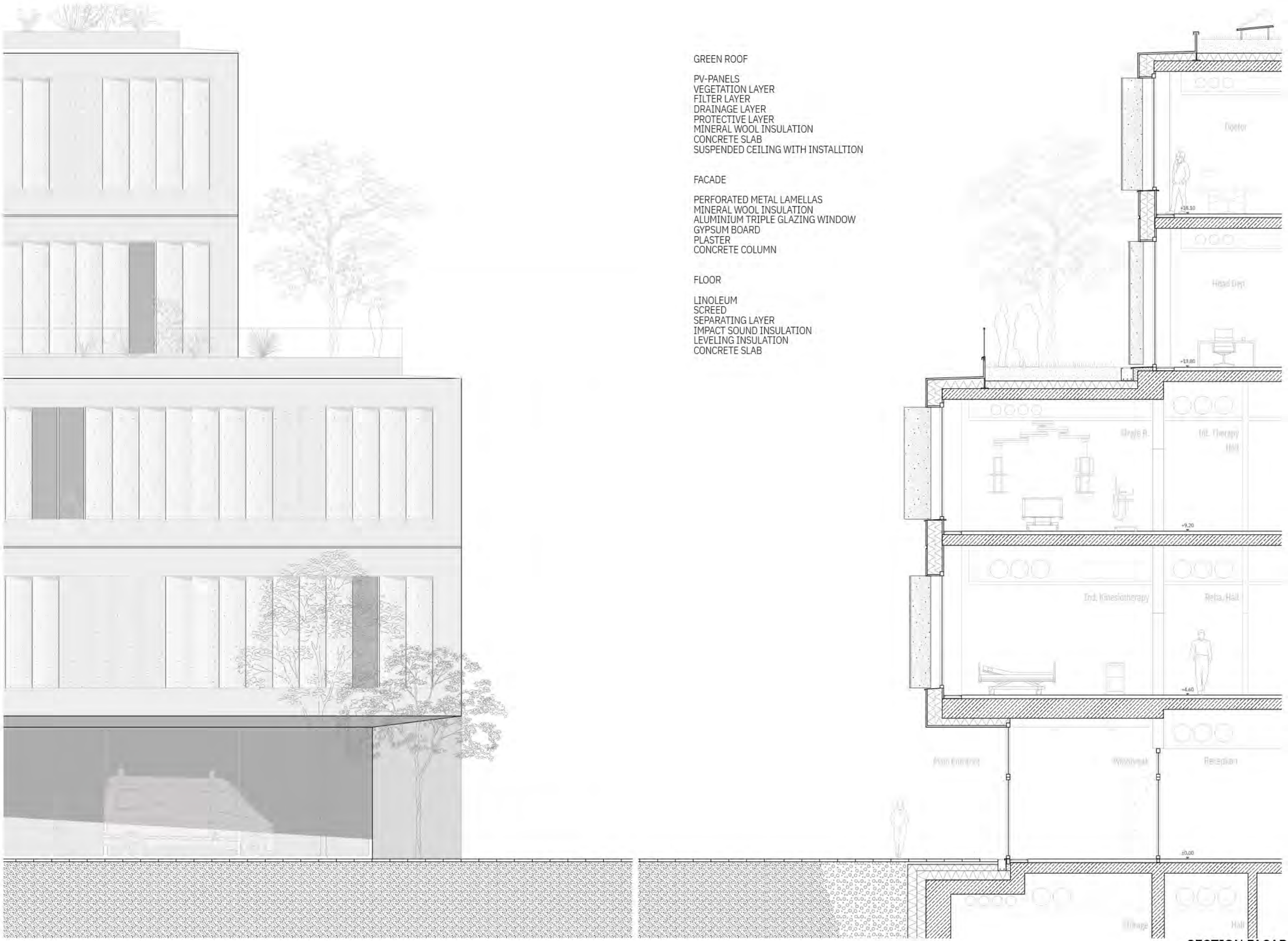
PV-PANELS
VEGETATION LAYER
FILTER LAYER
DRAINAGE LAYER
PROTECTIVE LAYER
MINERAL WOOL INSULATION
CONCRETE SLAB
SUSPENDED CEILING WITH INSTALLTION

FACADE

PERFORATED METAL LAMELLAS
MINERAL WOOL INSULATION
ALUMINIUM TRIPLE GLAZING WINDOW
GYPSUM BOARD
PLASTER
CONCRETE COLUMN

FLOOR

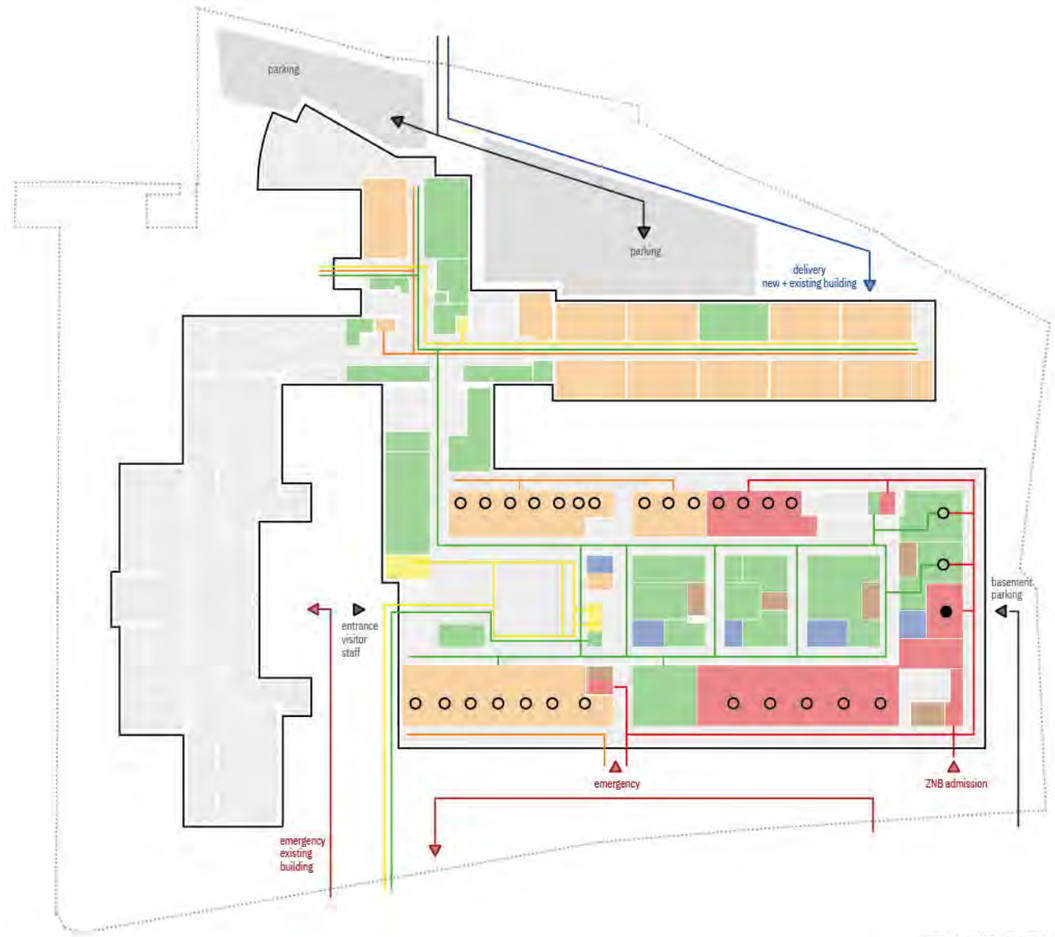
LINOLEUM
SCREED
SEPARATING LAYER
IMPACT SOUND INSULATION
LEVELING INSULATION
CONCRETE SLAB



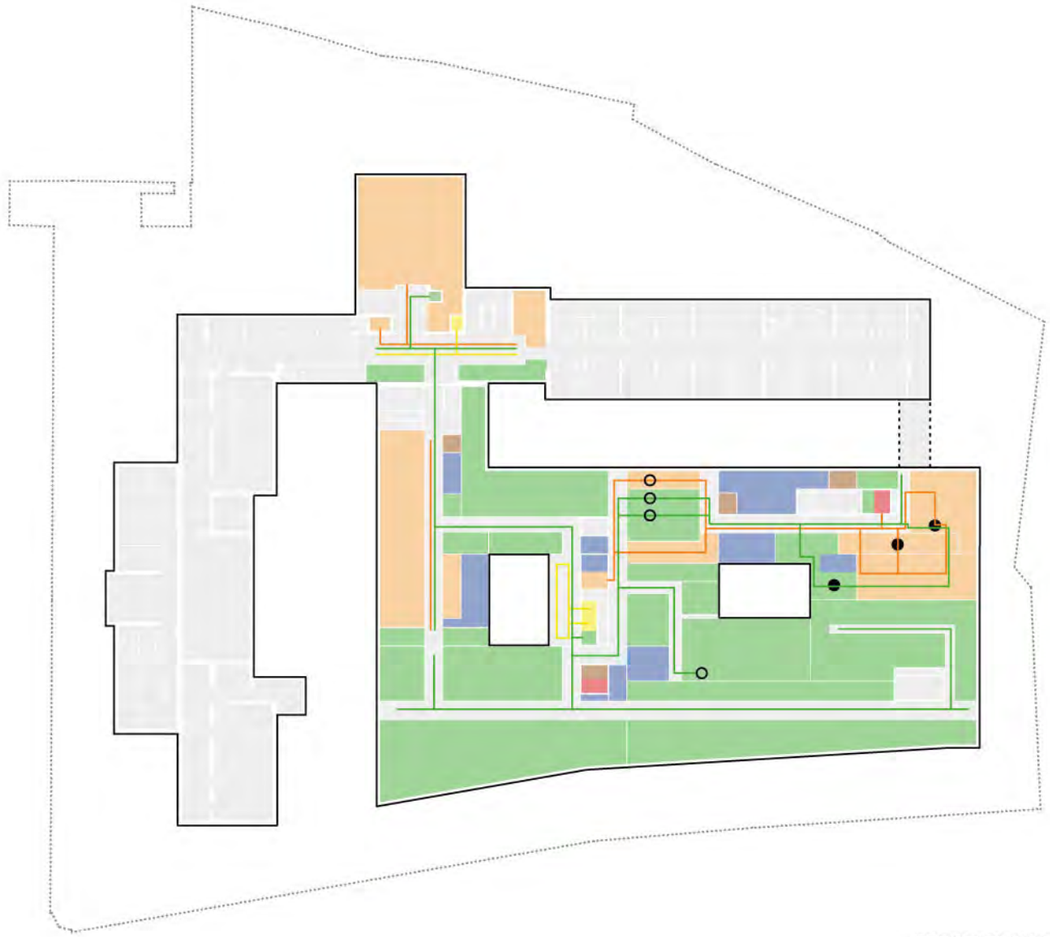
SECTION FACADE M1:100

Path Schemes

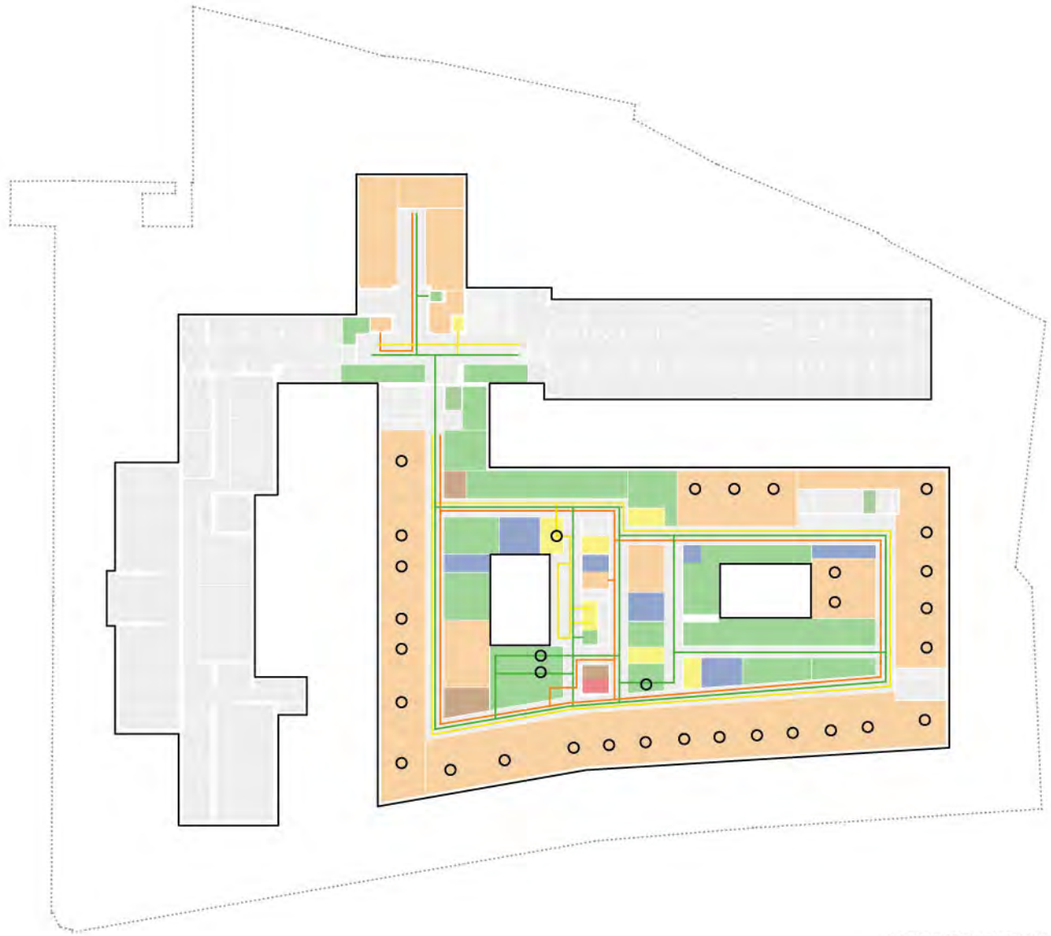
Clear separation of the building entrances in the new 1st building → Main access for patients and visitors from the west from the courtyard between the Fabiani building and the new building → Main access for emergencies from the south from Bohoriceva Street in the axis of the intersection with Korytkova Street.
Central main distribution core with staircase and lift group as a distributor to the various wards - Clear division of the floors into spatially self-contained ward/functional areas without intersections and passage to other wards -
The north-western staircase is located exactly at the interface with the existing building and can accommodate the difference in height here. Both buildings are accessible barrier-free via the lift.
- Construction of a (temporary) bridge on the 1st floor between the eastern end of BT. B (old building) and the new building with the aim of a short and redundant routing already in the 1st construction phase. The bridge is designed as a ramp to overcome the different building heights.
- Consistent spatial and functional separation in the wards into patient areas with clinical operations and areas with staff, administrative or teaching functions - Generous, multifunctional patient delivery along Behoriceva ulica in front of the building for the delivery of patients, for general emergency admissions and ZNB / KoKo emergency admissions, also sufficient for extreme emergencies.



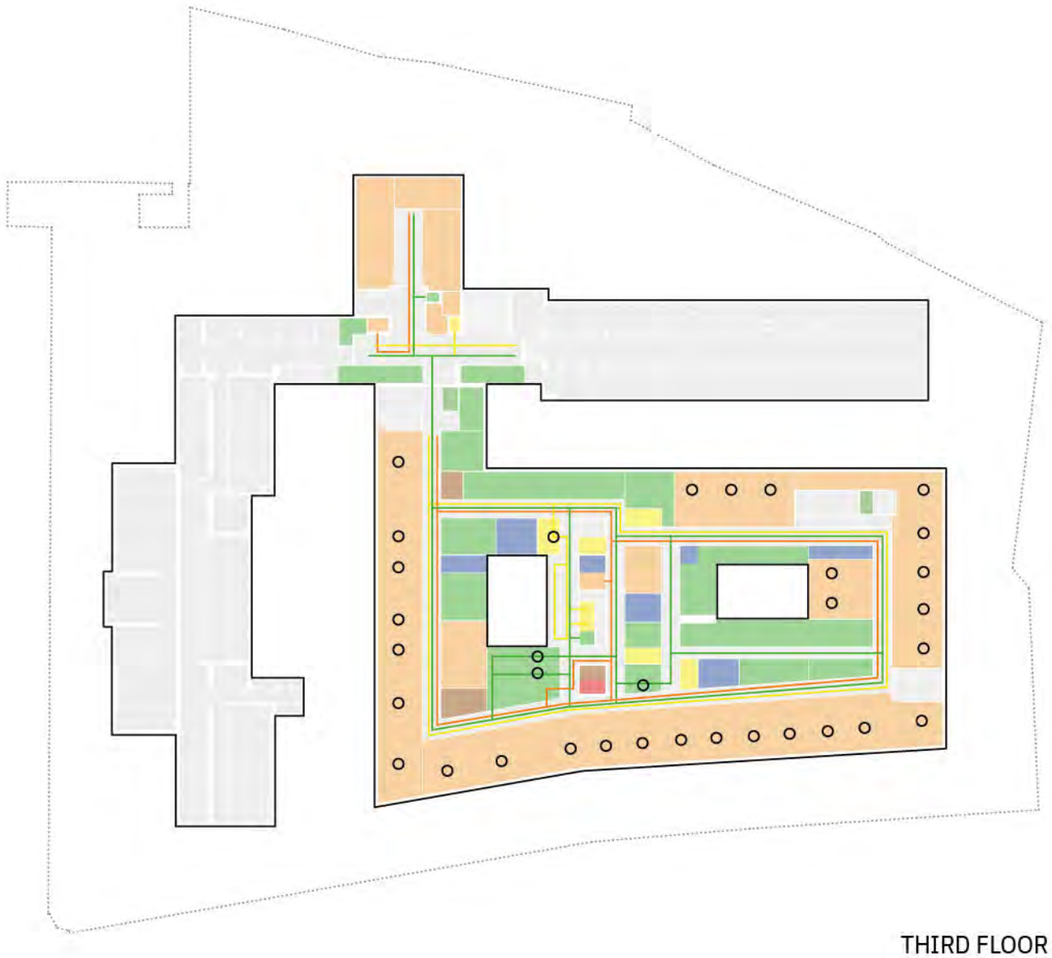
GROUND FLOOR



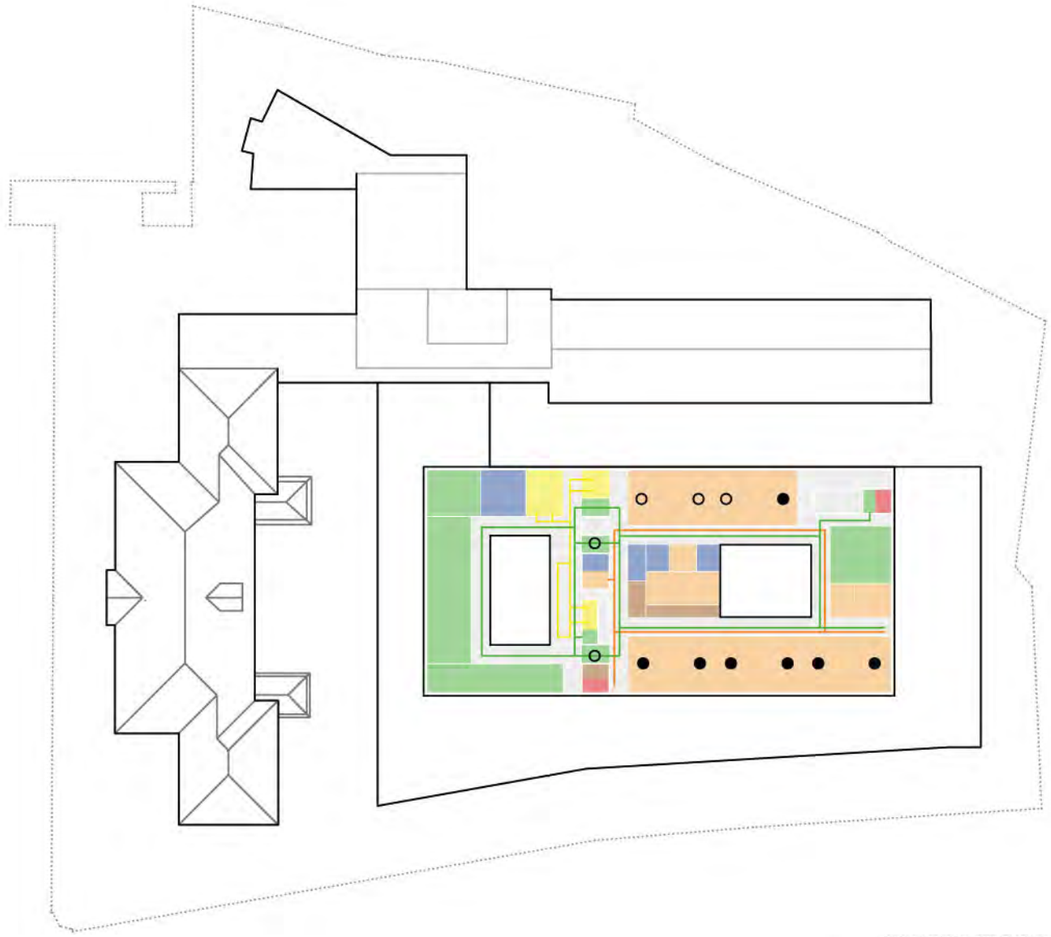
FIRST FLOOR



SECOND FLOOR

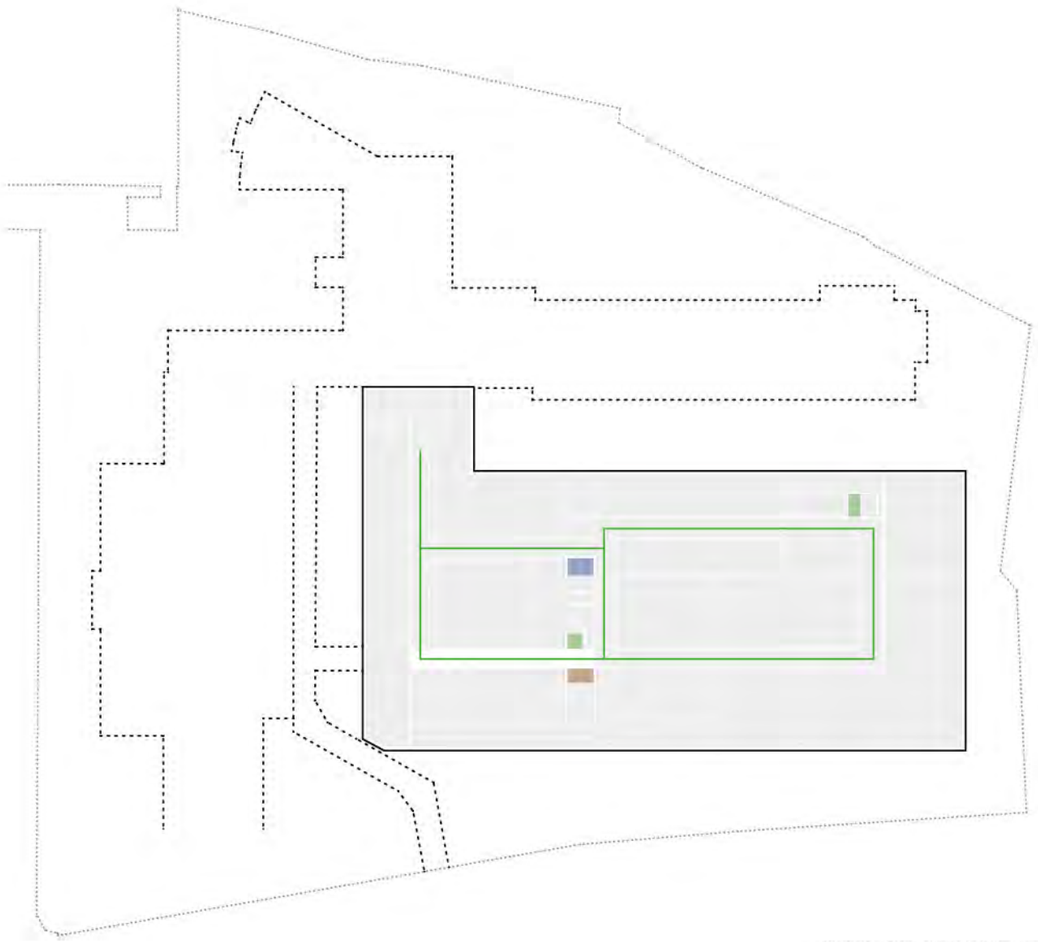


THIRD FLOOR

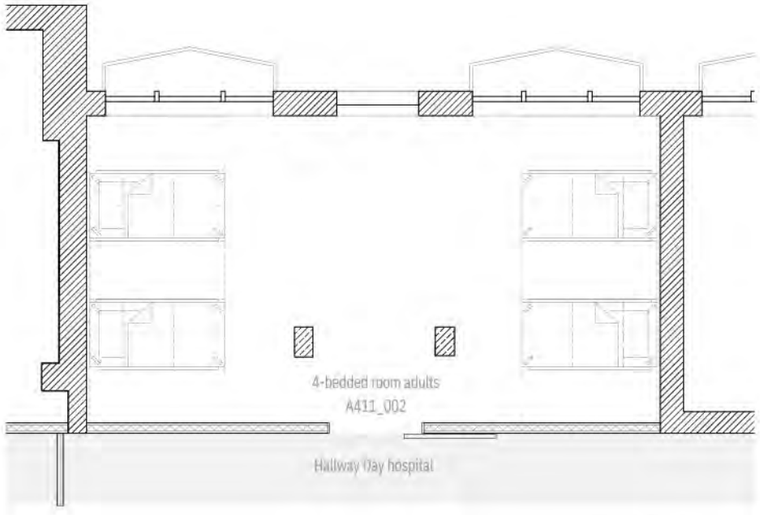


FOURTH FLOOR

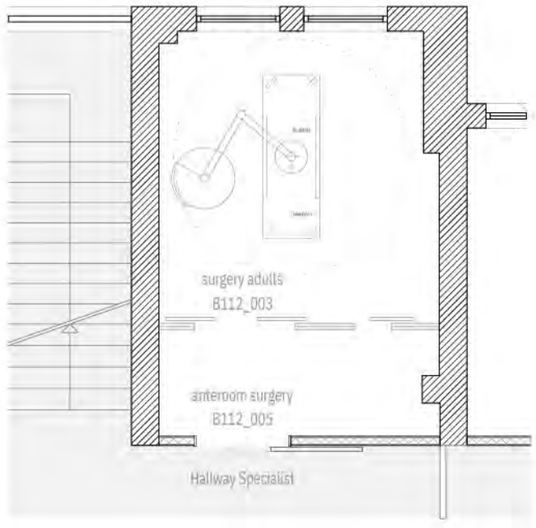
FIRST BASEMENT



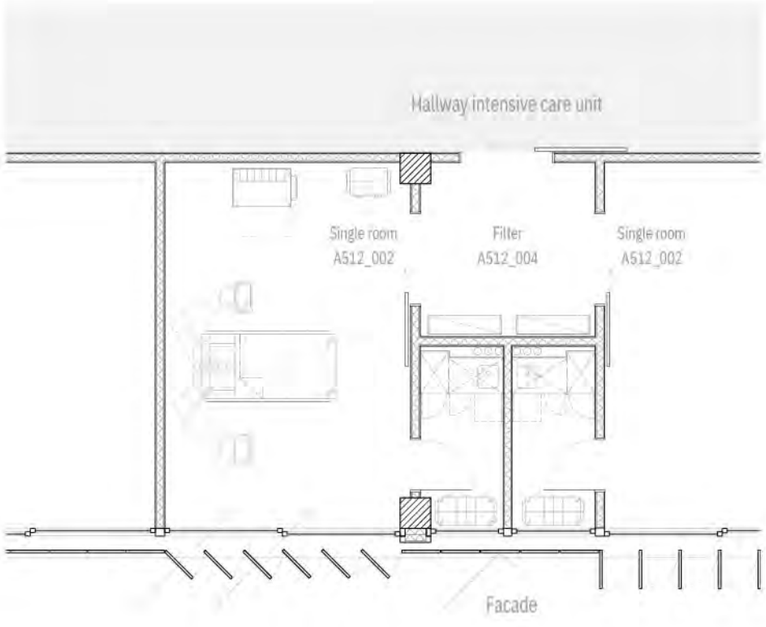
SECOND BASEMENT



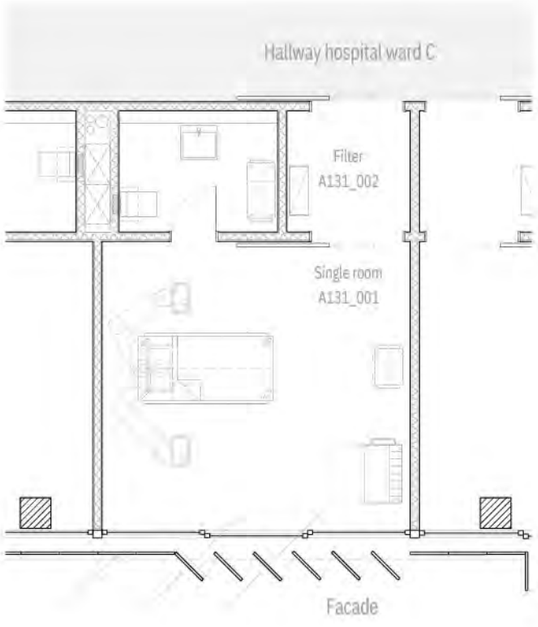
SET 3 M 1:100



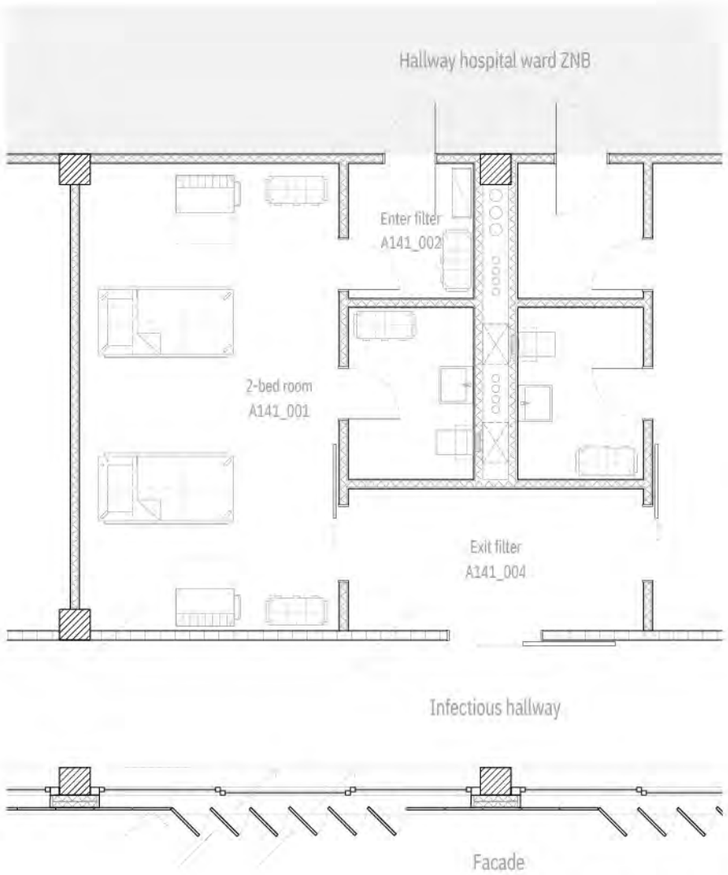
SET 5 M 1:100



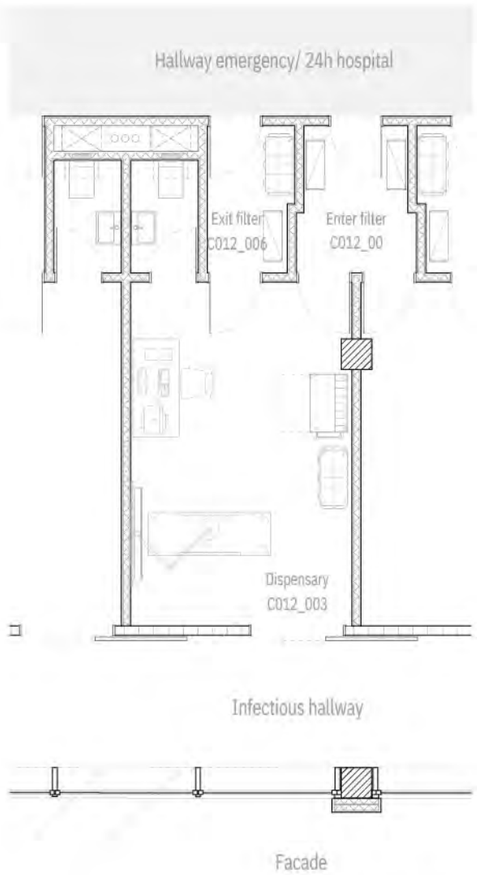
SET 4 M 1:100



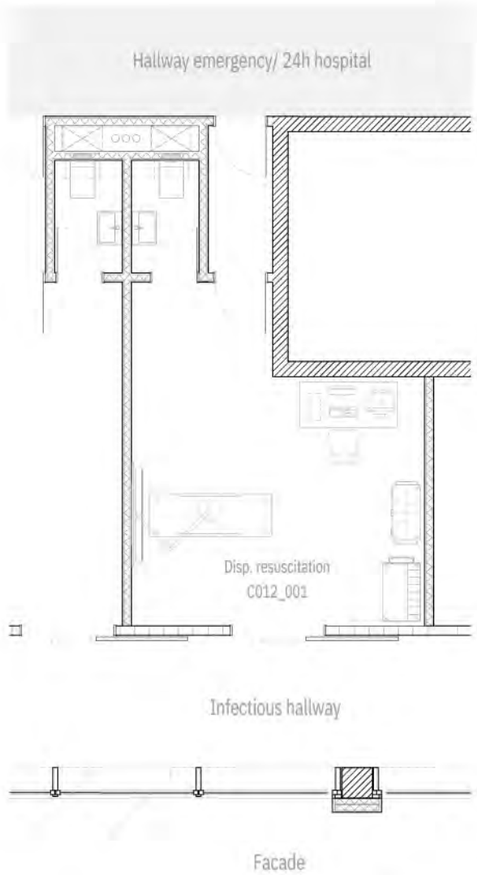
SET 2 M 1:100



SET 1 M 1:100



SET 6 M 1:100



SET 7 M 1:100

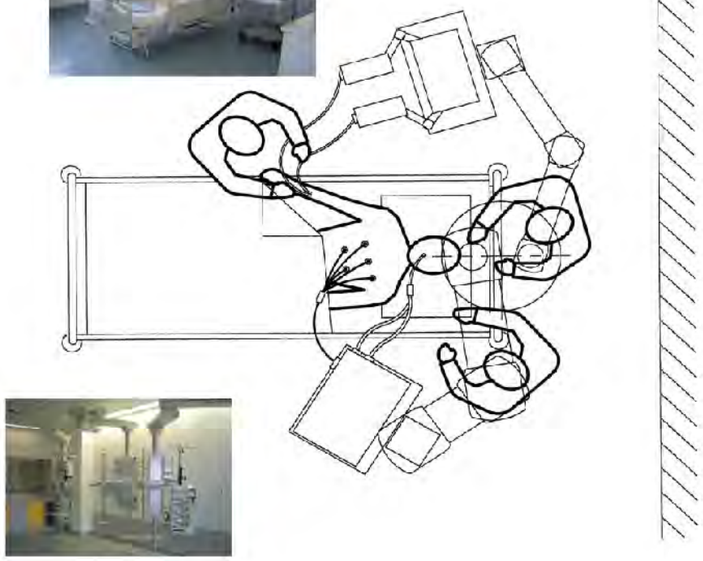
CEILING SUPPLY UNIT

CEILING-MOUNTED SUPPLY UNIT WITH SUPPORT SYSTEM ON 2 CANTILEVERS (2-ARMED)

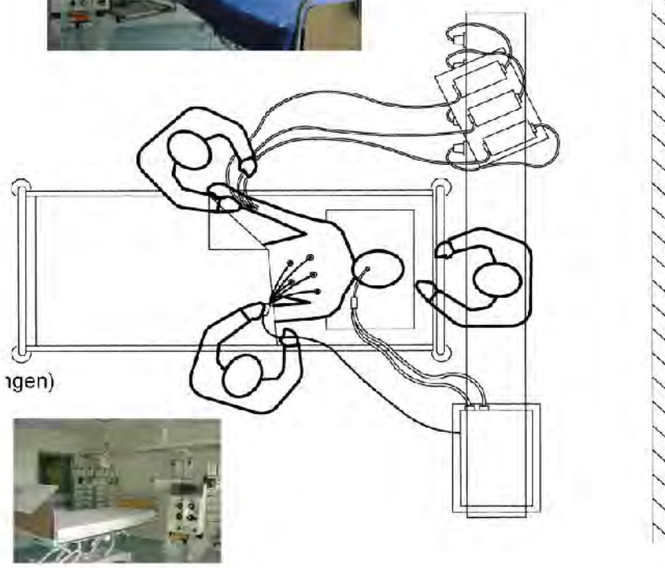
DIFFERENT SUPPORT SYSTEMS POSSIBLE
(EQUIPMENT CARRIER OR TRAFFIC LIGHT HEAD)

LARGE SWIVELLING RANGE DUE TO 2-ARM OUTRIGGERS

HEAD SIDE OF THE PATIENT FREELY ACCESSIBLE (NO DISTURBING CABLE AND HOSE CONNECTIONS)



CEILING SUPPLY UNIT



ALTERNATIVE WALL SUPPLY UNIT

Situation analysis and goals

The competition property is located in a transition area and area of tension between the adjoining university clinic complex to the south, with a very high, large-scale development of the character of a big city, some of which clearly exceeds the high-rise building line, and a small, low-rise residential development adjoining it to the north, some of which is almost village-like.
To the west is the historic Fabiani building of the gastroenterological clinic that with its axially symmetrical building structure and the large hipped roofs demands the respectful distance and solitary position it deserves.

1st building phase
- Creation of a new building next to an existing building that will remain in operation in a form that also in this constellation as a whole appears structurally and functionally comprehensible and self-evident.
- Integration of an exorbitant space requirement in a partial property with a very limited area, without the adjoining building being impaired in function and appearance.
- Create a clear zoning and structure inside to clearly separate the different departments and requirements (infectious - non-infectious - unclean).
- Inner courtyards and setbacks with roof terraces give the impression of spaciousness and offer staff and patients a pleasant atmosphere with a high quality of stay.

2nd building phase:
- Finding a large form harmonizing with the 1st BA that covers the remaining large space requirements, taking into account the low northern existing buildings.

The goal is to design a compact building, which on the one hand offers a high quality of stay for the employees with atriums, green gardens, roof terraces, and on the other hand creates a good orientation in the daily use with a main magistrale and „loops“, which delimit the clean and infected paths and allow a maximum compactness with short distances.

Urban planning / architectural concept

- Compliance with urban planning requirements in terms of heights and minimum distance from the Fabiani building.
- Compliance with the legally prescribed exposure distances to the neighbouring buildings to the east and north.
- Emphasis on the independence and significance of the historic Fabiani building, which is supported and underpinned by a quiet and height-compatible building block. A quiet courtyard situation is created behind the historic building.
- Picking up and emphasising the central axis of the Fabiani building in the large form of the tall main building from the first construction phase.
- Circumferential „plinth“ with staggered levels that take up the eaves of the surrounding buildings.
Ground floor setback to the main street, creating a covered entrance zone for the emergency room.
- Retention of a building-free section of the site in the 2nd construction phase with the creation of a green open space.
- Gradation and terracing of the building complex towards the boundaries to avoid excessive leaps in scale.
- More compact overall structure grouped around atriums with the aim of a house of short distances.
- Interplay of different height-staggered components with the aim of integrating the required substantial cubature into the scale of the surroundings.

The structural-functional concept

1st construction phase:
- Demolition of the southern side wing of the existing Building B in order to be able to directly connect to Building B with the new construction of the 1st building and to achieve the necessary building area in the 1st building.
The functions in the southern side wing can be rearranged during the construction phase of the 1st construction phase as follows:

Patient delivery ground floor
→ Temporary relocation to the north side of building B, with access from Jenkova ulica street.

Emergency room ground floor
→ temporary relocation to the north side of building B or to other clinics.

Storage areas basement
→ Temporary reduction of storage or accommodation in other areas of the clinic or replacement by more frequent delivery or supply via the connecting tunnel.

In general, it must be examined how exactly the clinic areas are coupled or separated from a technical point of view during the 1st construction phase.
The demolition of the southern side wing of the existing Building B should take place as late as possible in the course of the new construction measure 1st construction phase in order to reduce the interim measures to a minimum period.

- Construction of a staggered large structure to the south of the existing Building B, which integrates all departments to be realised in the 1st construction phase in accordance with the requirement and connects directly to the existing Building B from the south.

- Clear separation of the building entrances in the new structure of the 1st construction phase.
→ Main access for patients + visitors from the west from the courtyard between the Fabiani building and the new building.
→ Main access for emergencies from the south from Bohoriceva Street on the axis of the intersection with Korytkova Street.
- Central main distribution core with staircase and lift group as a distributor to the different wards
- Clear division of the floors into spatially self-contained station/functional areas without having to cross and traverse other stations.
- Construction of a temporary floor bridge between the eastern end of building B and the new building with the aim of a short and redundant routing already in the 1st construction phase.
- Consistent spatial and functional separation in the wards into patient areas with clinical operations and areas with staff, administrative or teaching functions.
- Generous, multifunctional patient delivery along Behoriceva ulica in front of the building for the delivery of patients, for general emergency admissions and ZNB / KoKo emergency admissions, also sufficient for extreme emergencies.

facade concept

The façade takes up the theme of layering with offsets of varying degrees between the floors. This makes it possible to react to the surrounding buildings by picking up on the eaves edges and differentiated height references, while the first floor recedes in the area of the entrances. The slight offset of the levels in turn creates green front zones and terraces, which offer additional quality of stay for the employees. Each floor forms its own layer/level with external sun protection in the form of room-height vertical slats, which when closed offer a unity with the envelope; the windows behind them can only be guessed at. The Vertical Blinds made od Recyceled Aluminuim (Daurability and Maintenance Reduction). Daylight falls into the rooms through a perforation of the slats, the view remains guaranteed, and at the same time the building is prevented from heating up too much. Different opening scenarios create a play of closed smooth envelope and relief-like opened fields.

landscaping concept

The concept for the landscaping solution of the area results from the respect for the space of the Fabiani building, the emphasis on the tree-lined axis along Bohoričeva ulica and the ambition to create high-quality green spaces for the staff and patients.
- The new main entrance axis is located in the open space between the Fabiani building and the new complex. In the central part, between the symmetrically arranged entrances of both buildings, there is a quiet, green inner courtyard that connects the two buildings functionally and spatially into a whole. The platform houses municipal facilities for the needs of visitors and staff, as well as access to the Fabiani building with a lift and outdoor staircase.

- The surroundings of the Fabiani building are green and reduced to lawns, perennial beds and trees. Within the green ambience are the central entrance to the building and symmetrical paved courtyards with a green centre.
- The entrance courtyard emphasises the entrance to Building B in Phase 1. The wide entrance courtyard consists of paved areas with herbaceous borders and groups of trees. Public facilities for the needs of visitors are located on the platform.
- The entrance is connected to Bohoričeva ulica and provides space for several vehicles under the covered area (under the canopy).
- In the 1st phase, the green parking will cover the entire northern area of the B-building. In the 2nd phase, the parking areas will be divided into several smaller parking spaces. We propose to arrange longitudinal parking spaces along Japljeva ulica.
- Greened atriums and a deep courtyard in the basement next to the staff dining room, which rises in steps to the ground floor, provide a high-quality and relaxed working environment for staff.
- Intensively landscaped roof terraces are arranged on the flat roofs above the 2nd floor and provide additional outdoor space for use by patients and staff.
- Solar cells and extensive greening are planned on the roofs of the 4th floor.
- The green perimeter of the site, planted courtyards and green roofs provide a favourable microclimate and follow the concept of placing hospitals in rich green spaces.

DESCRIPTION OF SOLUTION

OPIS NATEČAJNE REŠITVE

V opisu natečajne rešitve 2. stopnje natečaja naj se jedrnato odgovori na vprašanja o načinu doseganja pričakovanj in zahtev, določenih z natečajno nalogo in priporočili.

01 Navedite bistvene spremembe funkcionalne ali druge zasnove objekta, predloženega v 2. stopnji natečaja.

1. Ustrezna prilagoditev odmika novega objekta v zgornjih etažah od sosednjih objektov s čemer so izpolnjeni pogoji minimalnih odmikov in ustrezne osončenosti
2. Zamenjava upravnih/pisarniških prostorov z zdravstvenim programom (iz 2. v 1. nadstropje)
3. Reorganizacija 1. in 2. nadstropja – skrajšanje in nemešanje poti na oddelku intenzivne terapije
4. Organizacija lekarne in dnevne bolnišnice v obstoječem objektu ter zasnova povezave do obstoječega objekta z medetažo – oblikovanje neoviranega dostopa preko dvigala in stopnic
5. Prilagoditev in popravek prerezov skladno s stopničenjem etaž na vzhodnem delu
6. Dodatna povezava v zgornjih etažah na obstoječo stavbo preko mostne konstrukcije (zastekljene) – omogočena krožna pot
7. Dopolnitev zasnove s tehničnimi zahtevami (inštalacijski jaški, tehnični prostori) in integracija rešitev v zasnovo (statika, električne in strojne inštalacije, požarna varnost, medicinska tehn.)
8. Shematski prikaz komunikacijskih in evakuacijskih poti, prilagoditev in korekcija prostorov
9. Ohranitev dveh vzhodnih prizidkov na Fabianievi stavbi

02 Opišite zasnovo ogrevanja in ohlajanja stavbe.

Energetski koncept temelji na zniževanju toplotnih izgub v zimskem času in pregrevanju v poletnem času skozi ovoj objekta. V zasnovo so implementirane rešitve, ki jih zahtevata zakon in pravilnik o učinkoviti rabi energije (ZURE in PURES).

Priprava ogrevnega medija je predvidena preko toplotne postaje vezane na vročevodno omrežje Energetike Ljubljana.

Priprava hladilnega medija bo potekala preko hladilnega agregata tipa zrak / voda.

Ogrevanje prostorov se bo izvajalo preko enega ali več od naslednjih principov: Talno ogrevanje, radiatorsko ogrevanje, ventilatorski konvektorji in preko sistema prezračevanja. Podobno velja za hlajenje, ki bo prav tako potekalo preko nižanja sevalnega učinka tal (nad-kondenzacijsko talno hlajenje), ventilatorski konvektorji in prezračevalni sistemi.

Dodatno je predviden sistem izrabe odpadne toplote za potrebe predgrevanja sanitarne vode.

03 Opišite predlog uporabe obnovljivih virov energije za obratovanje objekta in navedite grobo oceno energijskih potreb za obratovanje objekta?

Predvidena je izraba odpadne toplote objekta v obliki toplotne črpalke tipa voda / voda vezane med ogrevni in hladilni zalogovnik. Predvideno letno hladilno število SEER 5,4 (razmerje med izkoriščeno odpadno toploto in vloženo električno energijo).

Za potrebe hlajenja sta predvidena dva hladilna agregata, ki uporabljata energijo okoliškega zraka za pripravo hladilnega medija. Predvideno letno hladilno število SEER 4,6 (razmerje med odvedeno toploto in vloženo električno energijo).

Na strehi so predvideni PV paneli, prav tako se lahko PV panele integrira na del fasade – na vertikalne panele sončne zaščite - brisoleje.

Primarno ogrevanje se vrši preko navezave na vročevodno omrežje Energetike Ljubljana, ki se smatra kot skladno s Pravilnikom o učinkoviti rabi energije v stavbah (PURES). Ocena letne porabe energije za potrebe ogrevanja, hlajenja, kondicioniranja zraka in priprave STV znaša 1.300 MWh. Ocena letne porabe električne energije znaša 4.200 MWh.

04 Opišite zasnovo požarne varnosti in kako arhitekturna zasnova pripomore k enostavnejšemu zagotavljanju požarne varnosti.

Nova stavba je po etažah ločena na požarne sektorje. Tehnični prostori in garaža bodo v podzemnem delu ločeni na svoje požarne sektorje, medtem ko je vsaka etaža nadzemnega dela razdeljena na dva sektorja iz katerega sta predvideni dve smeri evakuacije do požarno varnih stopnišč z direktnimi izhodi na prosto. Predvideno je tudi evakuacijsko dvigalo, ki ga je možno uporabljati v primeru požara. Nosilna konstrukcija bo požarne odpornosti R60, ločitve v EI60. Maksimalne dolžine evakuacijskih poti znašajo 30 m. Predvidi se aktivna požarna zaščita s sprinklerskim sistemom, sistemom javljanja požara, oddimljanjem na stopniščih, varnostno razsvetljavo, notranjimi hidranti, odvodom dima in toplote v kleti. Okoli objekta so predvidene poti za intervencijo ter delovne površine pri vhodih. Objekt bo imel predvideno alarmiranje preko ozvočenja. Nov objekt bo požarno ločen od obstoječega.

Arhitekturno je objekt zasnovan kot kompakten volumen z jasno in enostavno organizacijo sektorjev v posamezni etaži. To omogoča varno evakuacijo, ustrezne dolžine poti in kontrolo nad požarno zaščito.

05 Opišite konstrukcijsko zasnovo objekta in zasnovo ovoja.

Konstrukcijska zasnova je predvidena kot monolitna armirano betonska konstrukcija (betonirana na licu mesta). Nosilni sistem nadzemnih in podzemnih etaž v ponavljajočem rastru tvorijo AB stene in stebri na katerih ležijo AB etažne plošče. Temeljenje je predvideno z AB ploščo ter lokalnimi poglobitvami pod stebri in stenami. Zaradi bližine ceste, globine izkopa, varovanja obstoječih objektov in bližine sosednjih parcel bo potrebno varovanje oz. konstrukcijska zaščita gradbene jame (pilotna stena).

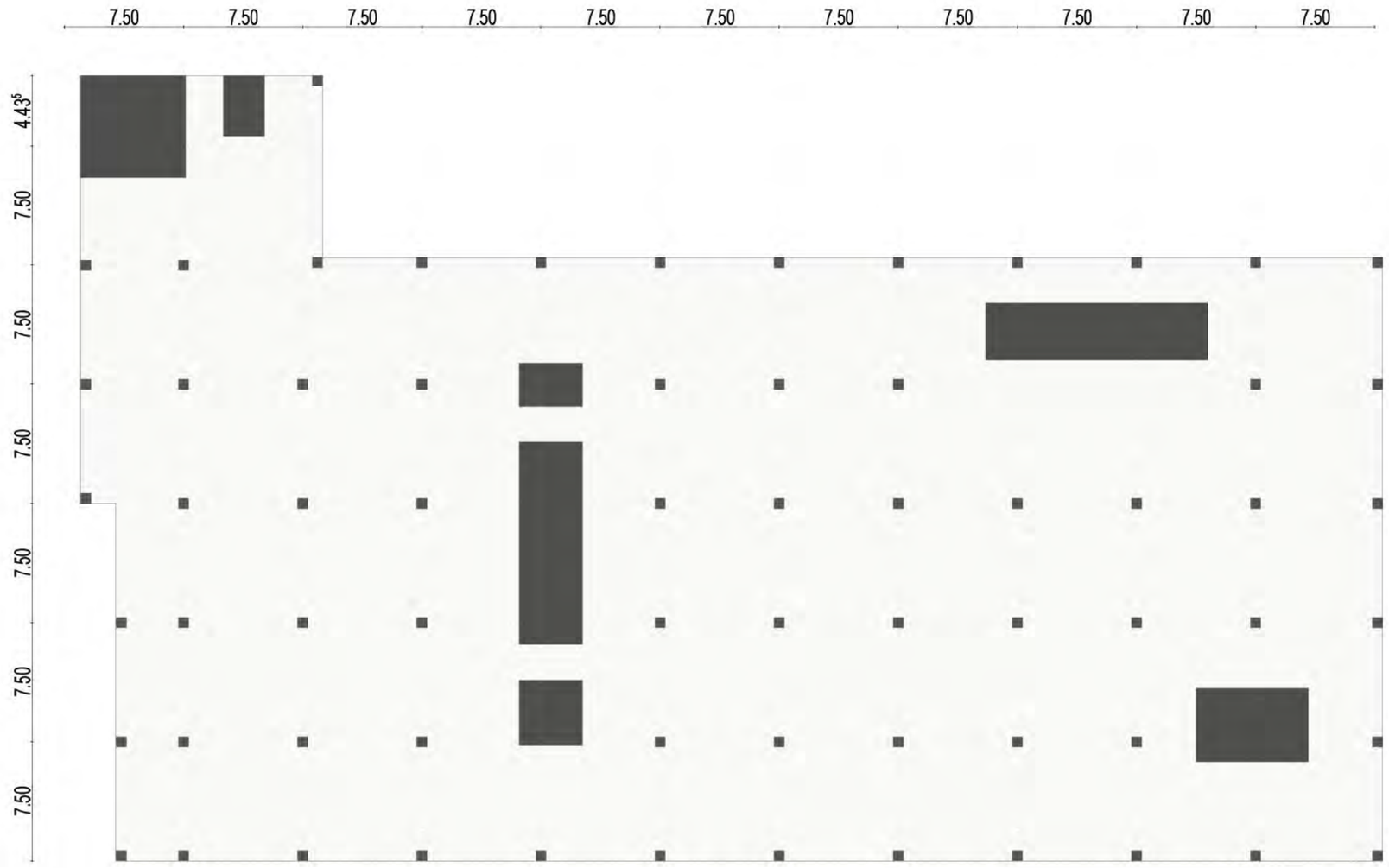
Ovoj stavbe je po etažah arhitekturno členjen, pri čemer ga sestavlja zunanja vert. sončna zaščita po celi višini prostorov (samodejni sistem zunanjega senčenja glede na vremenske pogoje), ki v zaprtem stanju poenotijo ovoj, ter kot primarni ovoj visoko-izolativne zasteklitve. Strehe so predvidene zelene, z ektenzivno ozelenitvijo. Predvideni so proizvodi z dobrim ekološkim ravnovesjem in okoljsko deklaracijo EPD, materiali izbrani z načelom ocene življenjskega cikla LCA in lokalne razpoložljivosti.

FIRE PROTECTION CONCEPT

EXAMPLE: SECOND FLOOR

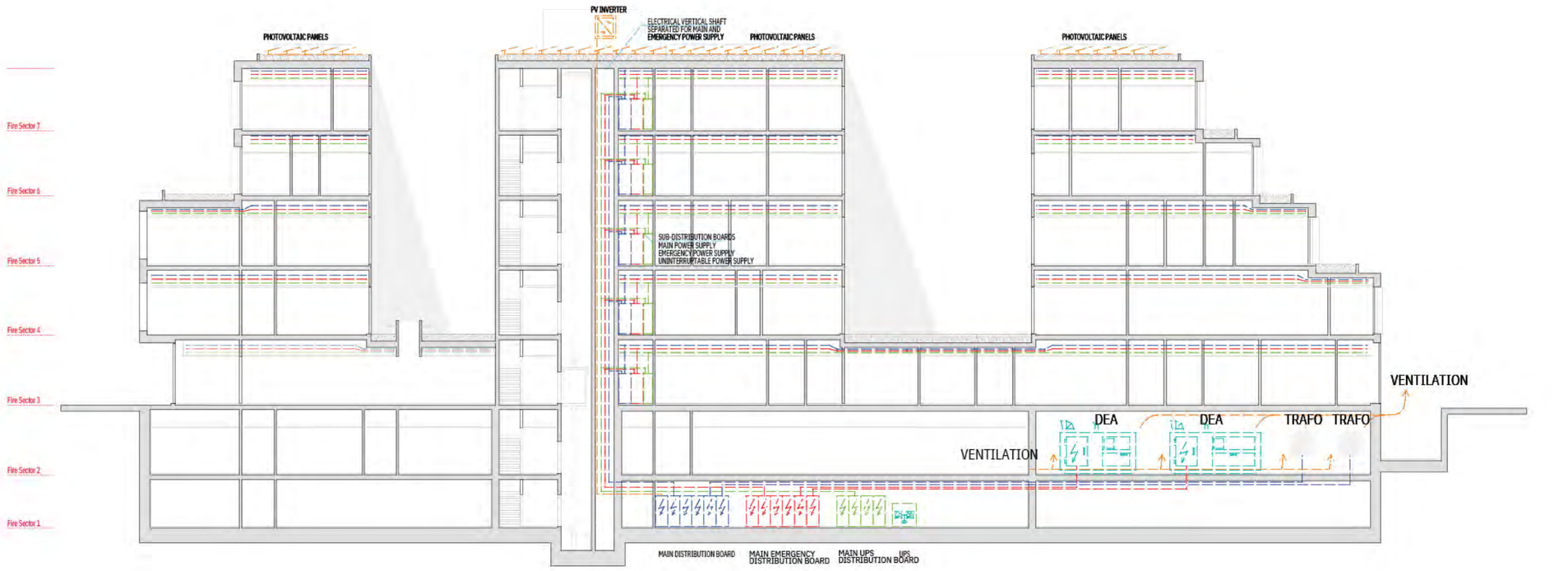
STATIC CONCEPT

EXAMPLE: GROUND FLOOR



STATIC PRINCIPLE/ BASIS OF SOLID CORES AND COLUMS IN COMBINATIN WITH FURTHER WALL-LIKE STIFFENERS AND BEAMS, ESPECIALLY WHEN COLUMS ARE OMITTED IN CONFINED ZONES).

SCHEME ELEKTRO INSTALLATION



SCHEME MECHANICAL INSTALLATION

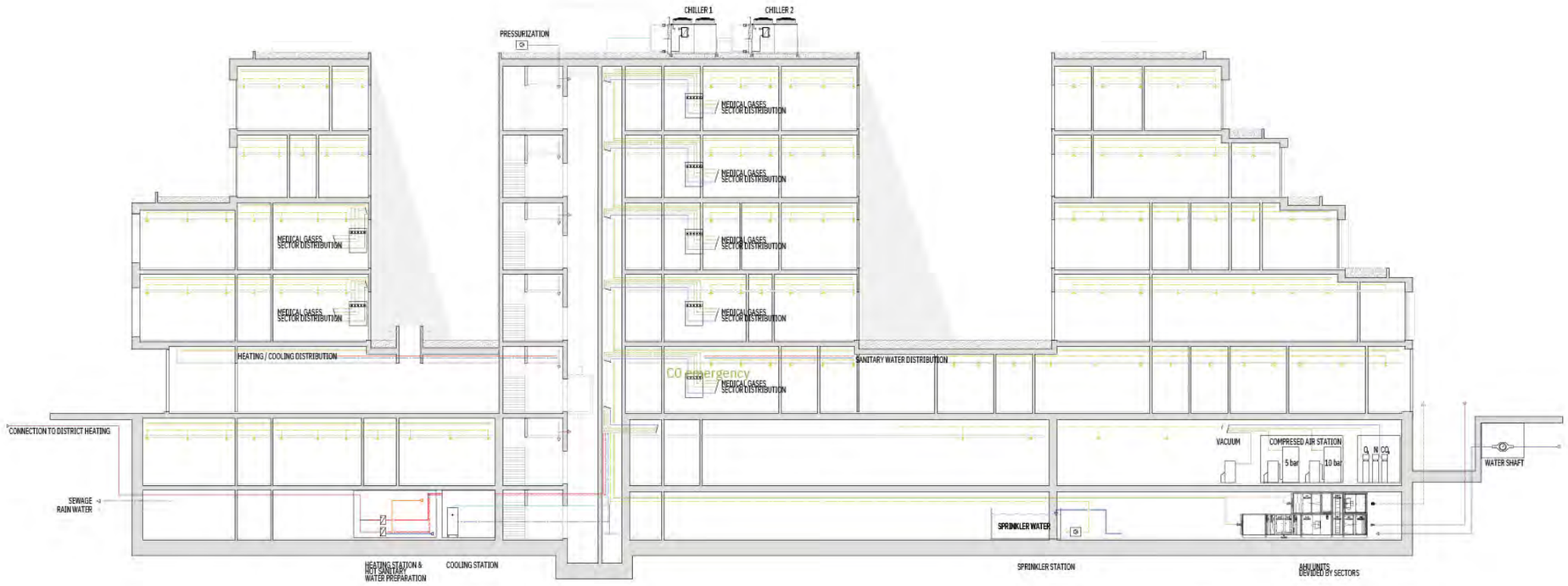


TABLE OF AREAS

SUMMARY OF SURFACES

SUMMARY OF SURFACES

DESIGN COMPETITION CODE: JK082-2

1st PHASE	BRIEF	COMPETITION SOLUTION
NET (m²)		
NEW FACILITY	15.470,2	17.823,6
EXISTING FACILITY	2.664,5	1.900,8
TOTAL	18.134,7	19.724,4
GROSS (m²) estimation		
NEW FACILITY	20.626,9	20.185
EXISTING FACILITY (interventions)	3.552,6	2.242
TOTAL	24.179,6	22.427,0
EXTERNAL SURFACES (m²)		
ACCESS AREAS		2.118
PAVED SURFACES		2.128
GREEN AREAS		2.641
ARRANGEMENT OF TERRACES/ROOF ABOVE THE BASEMENT		2.335
FACTORS IN URBAN PLANNING		
THE LAND USE FACTOR (approx. 2.7)*		2,6
LAND SIZE (Cdz only – areas dedicated to health, m²)	12.216,0	
GFA GASTROENT. (m²)	2.852,6	
GFA EXISTING FACILITY INF. (m²)**	8.688,3	
GFA RENOVATION BASEMENT EXISTING FACILITY INF. (m²)***		1.667
GFA NEW BASEMENT (m²)		6.558
GFA NEW ABOVE GROUND (m²)		13.632

* OPN, Article 3: *land use factor is the ratio between the GFA of a building and the total area of the plot intended for construction. The land use factor calculation does not take into account GFA basements, which are intended for the service premises of the building (garages, bicycle sheds and installation rooms).*

** Gross floor area of the entire building.

*** Gross floor area of the basement, which does not need to be taken into account in the area to calculate the land use factor.

**** Gross floor area of the basement to be taken into account in the area to calculate the land use factor.

DEPARTMENTS		
A HOSPITAL WARD	6.127,3	6.708,2
B SPECIALIST OUTPATIENT SERVICE	1.065,9	1.120,6
C DIAGNOSTICS AND THERAPY	3.356,3	3.778,3
D MEDICAL TECHNOLOGY SERVICES	835,5	860,5
E CENTRAL CARE SERVICES	1.618,9	1.519,8
F ADMINISTRATIVE AND PROFESSIONAL SERVICES	1.311,5	1.222,5
G TECHNICAL AND MAINTENANCE SERVICES	50,0	39,7
H INSTALLATION SYSTEMS	2.893,2	2.745,4
X SHELTER	1,0	241,0
Y PARKING LOT	875,0	720,0
Z ADDITIONAL SPACES	0,0	768,4
BEDS EXTENSION		
NURSING (A1.3, A1.4, A1.6)	58	58
Hospital ward C	20	20
Hospital ward ZNB (contagious disease)	18	18
Hospital KOKO ward	20	20
DEPARTMENTS (A4.1, A5.1)	37	37
Day hospital	23	23
Intensive care unit	14	14
OBSERVATION (Emergency room/24-hour hospital)	12	12
SUMMARY OF ALL BEDS		
NURSING ADULTS (new + existing)*	122	122
NURSING CHILDREN (existing only)	42	
TOTAL NURSING	164	164
TOTAL NEW ALL BEDS 1st phase	107	107
TOTAL NEW + EXISTING 1st phase	213	213

* Includes ZNB and KOKO departments.

2nd PHASE	BRIEF	COMPETITION SOLUTIC
NET (m²)		
NEW FACILITY	7.437,9	7.305,7
FACILITY 1st PHASE	15.470,2	17.823,6
TOTAL (- 1st phase exist. fac.)	22.908,1	23.228,5
GROSS (m²) estimation		
NEW FACILITY	9.917,1	8.621
FACILITY 1st PHASE	20.626,9	20.185
TOTAL	30.544,1	28.805,7
EXTERNAL SURFACES (m²)		
ACCESS AREAS		1.313
PAVED SURFACES		2.242
GREEN AREAS		2.799
ARRANGEMENT OF TERRACES/ROOF ABOVE THE BASEMENT		2.799
THE LAND USE FACTOR (max. 2.7)*		2,7
LAND SIZE (CDz only, m²)	12.216,0	
GFA GASTROENT. (m²)	2.852,6	
GFA NEW 2nd phase BASEMENT (m²)****		680
GFA NEW 2nd phase ABOVE GROUND (m²)		9.865
GFA NEW 1st phase BASEMENT (m²)****		6.558,0
GFA NEW 1st phase ABOVE GROUND (m²)		13.632,0

DEPARTMENTS		
A HOSPITAL WARD	6.372,0	5.825,0
B SPECIALIST OUTPATIENT SERVICE	1.065,9	0,0
C DIAGNOSTICS AND THERAPY	0,0	0,0
D MEDICAL TECHNOLOGY SERVICES	0,0	0,0
E CENTRAL CARE SERVICES	0,0	0,0
F ADMINISTRATIVE AND PROFESSIONAL SERVICES	0,0	0,0
G TECHNICAL AND MAINTENANCE SERVICES	39,7	39,7
H INSTALLATION SYSTEMS	0,0	0,0
X SHELTER		
Y PARKING LOT	0,0	0,0
Z ADDITIONAL SPACES	0,0	1.441,0
BEDS		
NURSING 2nd PHASE (A1.1, A1.2, A3.1, A3.2)	82	82
Hospital ward A	24	24
Hospital ward B	24	24
Children's ward A	17	17
Children's ward B	17	17
DAY HOSPITAL (A4.1)	23	23
TOTAL 1st and 2nd phases	140	212

SUMMARY OF AREAS BY DEPARTMENTS

SUMMARY OF AREAS BY DEPARTMENTS

		1st PHASE				2nd PHASE			
		new	existing	new	existing	new	relocation	new	relocation
A	**HOSPITAL WARD**		**6.127,3**		**6.682,5**		**7.206,2**		**5.825,0**
		5.293,1	834,2	5.848,3	834,2	6.372,0	834,2	5.825,0	0,0
	A1.1 Hospital ward A					1714,5		1.640,0	
	A1.2 Hospital ward B					1714,5		1.651,0	
	A1.3 Hospital ward C	1.323,4		1.324,2	0,0				-
*	A1.4 Hospital ward ZNB (contagious disease)	1.333,2		1.638,0	0,0				0,0
	A1.5 Hospital ward ZNB (admission)	224,1		333,6	0,0				-
	A1.6 Hospital KOKO ward	1.227,6		1.286,0	0,0				0,0
	A3.1 Children's ward A					1471,5		1.267,0	
	A3.2 Children's ward B					1471,5		1.267,0	
	A4.1 Day hospital		834,2	0,0	834,2		834,2		-
	A5.1 Intensive care unit	1.184,9		1.266,5	0,0				-
B	**SPECIALIST OUTPATIENT SERVICE**		**1.065,9**		**1.066,6**		**1.065,9**		**0,0**
		0,0	1.065,9	0,0	1.066,6	0,0	1.065,9		0,0
	B Specialist outpatient service		1.065,9	0,0	1.066,6		1.065,9		0,0
C	**DIAGNOSTICS AND THERAPY**		**3.356,3**		**3.778,3**		**764,4**		**0,0**
		2.591,9	764,4	3.778,3	0,0		764,4		0,0
	C0 Emergency and 24-hour hospital	1.532,8		1.986,2	0,0				-
	C1 Diagnostics	434,0		459,1	0,0				-
	C4 Medical laboratory		403,8	363,3	0,0		403,8		0,0
	C5 Department KOKO surgical procedures part	625,1		643,2	0,0				0,0
	C9 Rehabilitation		360,6	326,5	0,0		360,6		0,0
D	**MEDICAL TECHNOLOGY SERVICES**		**835,5**		**860,5**				**0,0**
		835,5		860,5	0,0				0,0
	D1 Pharmacy	261,7		265,5	0,0				-
	D2 Disinfection and sterilization service	562,0		578,7	0,0				0,0
	D4 Pathoanatomical department	21,8		16,3	0,0				0,0
E	**CENTRAL CARE SERVICES**		**1.618,9**		**1.519,8**				**0,0**
		1.618,9		1.519,8	0,0				0,0
	E1 Central care services	1.618,9		1.519,8	0,0				0,0
F	**ADMINISTRATIVE AND PROFESSIONAL SERVICES**		**1.311,5**		**1.222,5**				**0,0**
		1.311,5		1.222,5	0,0				0,0
	F1.1 Administrative and professional services	1.311,5		1.222,5	0,0				0,0
G	**TECHNICAL AND MAINTENANCE SERVICES**		**50,0**		**39,7**				**39,7**
		50,0		39,7	0,0				39,7
	G1 Technical and maintenance services	50,0		39,7	0,0				39,7
H	**INSTALLATION SYSTEMS**		**2.893,2**		**2.745,4**				**0,0**
		2.893,2		2.745,4	0,0			0,0	
	H1 Installation systems	1.785,0		1.722,7	0,0			-	
	H4 Elevators and staircases	1.108,2		1.022,7	0,0			0,0	
X	**SHELTER**		**1,0**		**241,0**				
		1,0		241,0					
	X1 Dual purpose shelter	1,0		241,0					
Y	**PARKING LOT**		**875,0**		**720,0**				**0,0**
		875,0		720,0				0,0	
	Y1 Basement parking spaces	875,0		720,0				0,0	

* Existing areas for departmt A1.4 Hospital ward ZNB (contagious disease) are not summed correctly due to mistake in ZAPS original file (SUPP3)!! Error in worksheet A1.4, column X!!
* Obstoječe površine v oddelku A1.4 ZNB niso pravilno seštete, ker je napaka v izvorni datoteki ZAPS-a (SUPP3)!! Napaka v delovnem zvezku A1.4, stoplec X!!

INVESTMENT EVALUATION

INVESTMENT_EVALUATION

		1st PHASE		INVESTMENT_EVALUATION					2nd PHASE		INVESTMENT_EVALUATION				
		new	existing	new	existing	new: €/m²	exist: €/m²	Σ: new:exist.	new	relocation	new	relocation	new: €/m²	relocat.: €/m²	Σ: new:relocat.
						36.682.550,0	5.428.900,0	42.111.450,0					#WERT!	#WERT!	#WERT!
A	HOSPITAL WARD		6.127,3		5.755,8	€/m²	€/m²	15.065.100,0		7.206,2		5.825,0	€/m²	€/m²	#WERT!
		5.293,1	834,2	4.921,6	834,2				6.372,0	834,2	5.825,0	0,0			
	A1.1 Hospital ward A								1714,5		1.640,0				0,0
	A1.2 Hospital ward B								1714,5		1.651,0				0,0
	A1.3 Hospital ward C	1.323,4		1.324,2	0,0	2.600		3.442.920,0				-			#WERT!
	A1.4 Hospital ward ZNB	1.333,2		1.638,0	0,0	2.600		4.258.800,0				0,0			0,0
	A1.5 Hospital ward ZNB (admission)	224,1		333,6	0,0	2.600		867.360,0				-			#WERT!
	A1.6 Hospital KOKO ward	1.227,6		333,6	0,0	2.600		867.360,0				-			#WERT!
	A3.1 Children's ward A								1471,5		1.267,0				0,0
	A3.2 Children's ward B								1471,5		1.267,0				0,0
	A4.1 Day hospital		834,2	25,7	834,2		2.800	2.335.760,0		834,2		-			#WERT!
	A5.1 Intensive care unit	1.184,9		1.266,5	0,0	2.600		3.292.900,0				-			#WERT!
B	SPECIALIST OUTPATIENT SERVICE		1.065,9		1.120,6			3.093.140,0		1.065,9		0,0			0,0
		0,0	1.065,9	54,0	1.066,6					1.065,9		0,0			
	B Specialist outpatient service		1.065,9	54,0	1.066,6		2.900	3.093.140,0		1.065,9		0,0			0,0
C	DIAGNOSTICS AND THERAPY		3.356,3		3.778,3			9.823.580,0		764,4		0,0			#WERT!
		2.591,9	764,4	3.778,3	0,0					764,4		0,0			
	C0 Emergency and 24-hour hospital	1.532,8		1.986,2	0,0	2.600	1.700	5.164.120,0				-			#WERT!
	C1 Diagnostics	434,0		459,1	0,0	2.600	2.100	1.193.660,0				-			#WERT!
	C4 Medical laboratory		403,8	363,3	0,0	2.600	1.800	944.580,0		403,8		0,0			0,0
	C5 Department ZNB surgical procedures part	625,1		643,2	0,0	2.600	2.000	1.672.320,0				0,0			0,0
	C9 Rehabilitation		360,6	326,5	0,0	2.600	1.600	848.900,0		360,6		0,0			0,0
D	MEDICAL TECHNOLOGY SERVICES		835,5		860,5			2.237.300,0				0,0			#WERT!
		835,5	0,0	860,5	0,0							0,0			
	D1 Pharmacy	251,7		265,5	0,0	2.600	1.500	690.300,0				-			#WERT!
	D2 Disinfection and sterilization service	562,0		578,7	0,0	2.600	1.400	1.504.620,0				0,0			0,0
	D4 Pathoanatomical department	21,8		16,3	0,0	2.600	1.100	42.380,0				0,0			0,0
E	CENTRAL CARE SERVICES		1.618,9		1.519,8			2.735.640,0				0,0			0,0
		1.618,9	0,0	1.519,8	0,0							0,0			
	E1 Central care services	1.618,9		1.519,8	0,0	1.800	1.300	2.735.640,0				0,0			0,0
F	ADMINISTRATIVE AND PROFESSIONAL SERVICES		1.311,5		1.222,5			1.956.000,0				0,0			0,0
		1.311,5	0,0	1.222,5	0,0							0,0			
	F1.1 Administrative and professional services	1.311,5		1.222,5	0,0	1.600	1.300	1.956.000,0				0,0			0,0
G	TECHNICAL AND MAINTENANCE SERVICES		50,0		39,7			63.520,0				39,7			0,0
		50,0	0,0	39,7	0,0							39,7			
	G1 Technical and maintenance services	50,0		39,7	0,0	1.600	1.300	63.520,0				39,7			0,0
H	INSTALLATION SYSTEMS		2.893,2		2.785,1			4.734.670,0				0,0			#WERT!
		2.893,2	0,0	2.785,1	0,0						0,0				
	H1 Installation systems	1.785,0		1.762,4	0,0	1.700	2.100	2.996.080,0			-				#WERT!
	H4 Elevators and staircases	1.108,2		1.022,7	0,0	1.700	1.900	1.738.590,0			0,0				0,0
X	SHELTER		1,0		241,0			457.900,0							
		1,0	0,0	241,0											
	X1 Dual purpose shelter	1,0		241,0		1.900	900	457.900,0							
Y	PARKING LOT		875,0		720,0			792.000,0				0,0			0,0
		875,0	0,0	720,0							0,0				
	Y1 Basement parking spaces	875,0		720,0		1.100	600	792.000,0			0,0				0,0
Z	Additional spaces		0,0		768,4			1.152.600,0							
		0,0		768,4	0,0						1.441,0				
	Z1 Additional spaces	0,0		768,4	0,0	1.500	1.100	1.152.600,0			1.441,0				0,0

EXTERNAL SURFACES	1st PHASE	INVESTMENT_EVALUATION					2nd PHASE	INVESTMENT_EVALUATION				
		driveway: €/m²	pavement: €/m²	green: €/m²	terraces: €/m²	Σ: total		driveway: €/m²	pavement: €/m²	green: €/m²	terraces: €/m²	Σ: total
	total	381.240,0	361.760,0	396.150,0	700.500,0	1.839.650,0	total	0,0	0,0	0,0	0,0	0,0
	areas	2.118,0	2.128,0	2.641,0	2.335,0		areas	1.313,0	2.242,0	2.799,0	2.799,0	
	€/m²	180	170	150	300		€/m²					

Tabela 1.: Pogodbena vrednost za izdelavo projektne dokumentacije in drugih storitev potrebnih za izgradnjo novega objekta in celovito programsko in GOI prenovo dela obstoječega objekta

skupaj brez DDV:	6.360.361,55 €
vrednost DDV:	1.399.279,54 €
SKUPAJ z DDV:	**7.759.641,10 €**

Tabela 2.: Pogodbena vrednosti za vodenje in koordinacijo energetske sanacije celega obstoječega objekta

skupaj brez DDV:	132.000,00 €
vrednost DDV:	29.040,00 €
SKUPAJ z DDV:	**161.040,00 €**

Pogodbena vrednost skupaj (tabela 1 in tabela 2):

skupaj brez DDV:	6.492.361,55 €
vrednost DDV:	1.428.319,54 €
SKUPAJ z DDV:	**7.920.681,10 €**