

Konštantín Bauer ,1927.



sharpness variation, 2018.

The opportunity to bring the entire Grössling City complex back to life has made it possible not only to enhance its architectural importance, but also to re-emerge the ancient social and cultural value that it has within the city of Bratislava. The vision that provides for the aggregation of functions relating to the Baths, the Municipal Library and the " House for Literature " allows for the implementation of a contemporary model of a complex building that benefits from the multiplicity of functions. The proposal echoes the suggestion of Konštantín Bauer's 1927 painting which sees green lungs emerging within the urban fabric.

Added to this is the idea of making spaces interact through different levels of focus, capable of suggesting users by recovering the ethereal sensation of spas and the suspended atmosphere of a place of meditation.

Interfacing with the city The pedestrian area redesigned as

a park on Medená Street is a public space between the inhabitants of the city and the users of Grössling, constituting the premise for the continuous contamination that will take place inside.

The majestic existing trees and

the mainly permeable vocation of this space are maintained. The intervention focuses on an expansion of the paved area close to the buildings. The nearby presence of the café makes the outdoor space the natural extension of the sitting area towards the city during the summer season. Inside the park there is an informal area between the grass and a long stretch of water that exhibits the soul of the building on the outside.

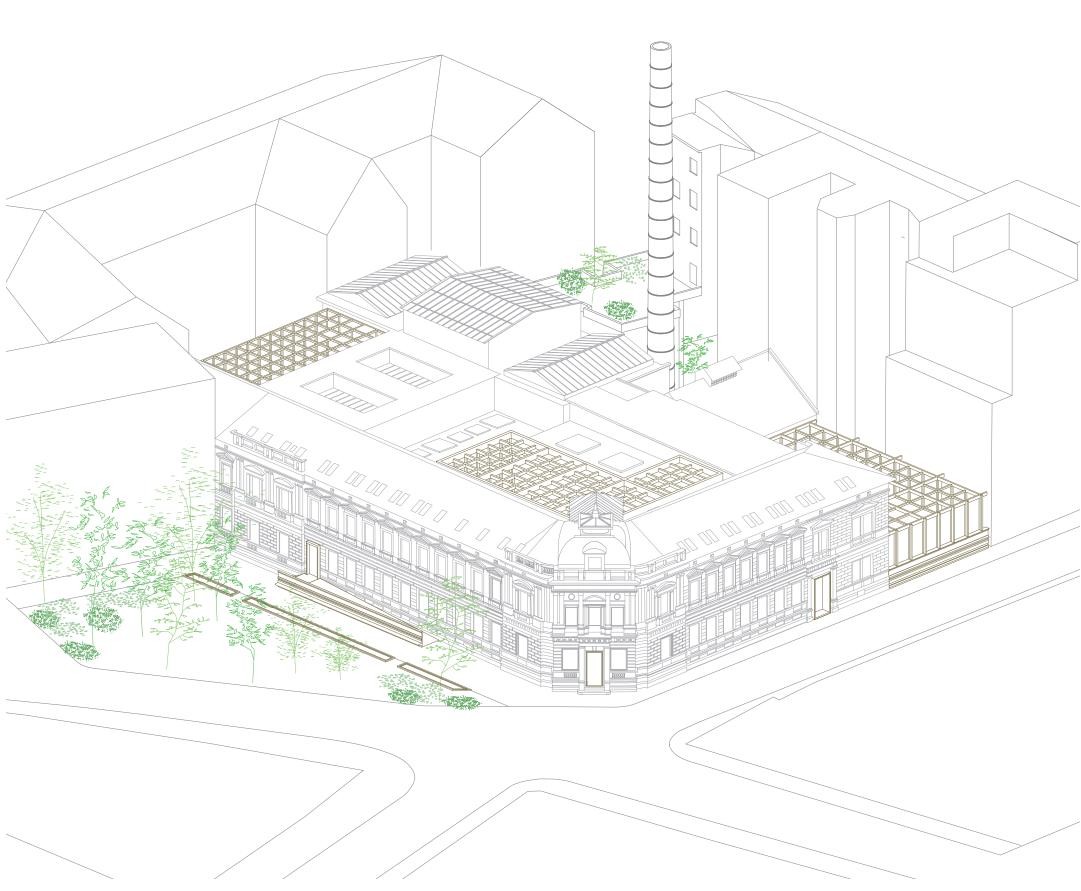
Attention is paid to the ramp (with an 8% gradient) that leads visitors to the entrance to the café and the library. In addition to breaking down architectural barriers also for the users of the City Bath, this device becomes a long outdoor seat with which the project wants to interact further with the city.

The shape of this metal element recovers the existing facade of the building, with the intention of tracing its section. This cast is moved from the position of the original facade to accommodate the ramp.

The treatment of the elevations reflects the design choice aimed at preserving the urban layout and its original value, with the only exception of the entrance portals and the redesigned portion in Kúpeľňa Street. This part of the prospectus externally denounces the essence of contemporary intervention that takes shape inside: the winter gardens. The façade, however, has a variation

with respect to the internal dynamics: the steel and glass facade rests on a base that follows the existing profile with the same principle described above for the ramp, making old and new dialogue.

The entrance on Kúpeľná ulica street acts as a service flow from which there is also direct access to the basement. The one in Vajanského Nábrežie is for the exclusive use of the residences.



general	axonometry	external	configuration

	general axonometry external configure					
		rough floor area (including structures)	built-up volume without foundation structures			
		m2	m3			
City Bath:		5.485	20.283			
	basement - reconstruction	1.880	5.076			
	basement - new building	0	0			
	above ground part - reconstruction	3.380	13.564			
	above ground part - new building	225	1.643			
City Bath:	City Both interestive rome	2.794 2.019	12.369 10.117			
	City Bath - interactive zone:		10.117			
	pool area (water area)	482				
	entrance hall	86	301			
	changing rooms and sanitary facilities	426	1.278			
	part with pools	954	6.777			
	refreshment area	30	117			
	massages and other therapeutic procedures	161	511			
	administrative premises and facilities	212	609			
	City Both rosting zono	775	2251,4			
	City Bath - resting zone changing rooms and sanitary facilities		with interactive zone			
	part with saunas	grouped together 716	with interactive zone 2074,4			
	ן אינון שנוון שנוומש	1 /10	2074,4			
library:		2.050	8.099			
	basement - reconstruction	240	624			
	basement - new building	0	0			
	above ground part - reconstruction	1.715	6.781			
	above ground part - new building	95	694			
library:	htt	1.506	5.798			
	library:	962	3.498			
	entrance	60	240			
	open access shelves	567	2.271			
	study facilities - workshop room	45	149			
	administrative premises and facilities	190	538			
	café:	544	2.301			
	premises of the café	135	351			
	open space	409	1.950			
		I				
apartment		474	1.422			
	apartments - reconstruction apartments - new building	474	1.422			
	apartments - new building	l ol	<u> </u>			
technologi	cal background:	1.150	3.105			
	basement - reconstruction	1.150	3.105			
	basement - new building	0	0			
	above ground part - reconstruction	0	0			
	above ground part - new building	0	0			
	1	ı				
-4h	city bath buffer zone (common atrium between interactive	116	587			
other:	zone, resting zone and outside pool).					
park:		1.165				
	paved surfaces	465				
	entrance ramps, stairs, terraces	45				
	greenery, waterbound pathways, gravel sidewalks	655				
courtyards	and roofs:	806				
	paved areas - terraces, residential roof, courtyard	456				
	on the ground - greenery, waterbound pathways, gravel					
	sidewalks	310				
	outdoor pool (water surface area)	40				
	classic sloping roof	existing situation				
	ausen usef					

Grössling - simple statement of the planar and spatial balances of the design

rough floor area

(including structures)

8.955

built-up volume without

foundation structures

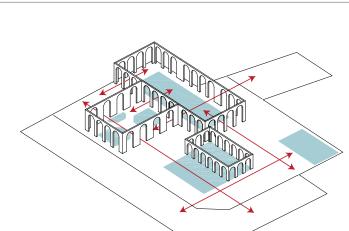
31.159

green roof

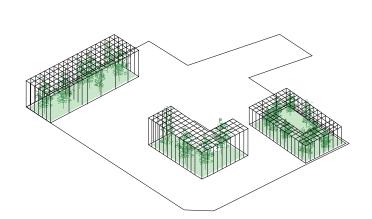
reconstruction

new building (extension)

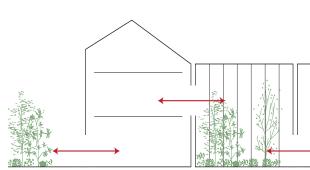
OVEERALL SUMMARY - OBJECT



visual permeability_the restoration of the original arches guarantees visual and physical permeability between the new and existing pools, enhancing the identity and fluidity

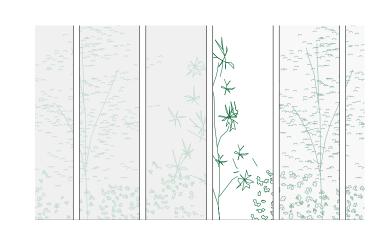


the Greenhouses_episodes of vegetation integrate with the rhythm of the building thanks to three winter gardens that allow natural light to reach the center of the complex.



contamination_both the rooms of the library and those of the Baths find views on the internal and external green episodes of the building, thus underlining and strengthening

their catalyzing function.



*porosity_t*wo levels of visual permeability characterize the new graft according to the environment of being: opal glass to filter the eyes and transparent glass to expand the spaces.

concept diagrams



11. first-AID station | INTERACTIVE ZONE_ 12. Arches Greenhouse, A recreational pool 13. sanitary facilities, 14. refreshment area, 15. sitting relaxation pools, B. hot pool, C. warm pool, D.whirpoo 16. steam bath, F.plunge pool, 17. cooling area, 18. Convivial Greenhouse (outdoor portion) 19. swimming pool, E. swimming pool, 20. finnish sauna, 21. cooler showers, 22. Whispers Greenhouse (outdoor), G.outdoor pool | RESTING ZONE_ 23. boiler room, H. Kneipp path, J. cold pool, I. hot pool, 24. steam bath, 25. cooling area, 26. resting space, 27. sanitary facilities | CITY LIBRARY | RESIDENCY ZONE_ 28. lobby | CAFÈ_ 29. restaurant area, 30. sanitary facilities, 31. employees facilities, 32. facilities for the preparation of meals, 33. storage, 34. open space area, 35. storage, 36. Convivial Greenhouse (indoor events area) | LIBRARY_ 37. central counter, 38. self check and selfservice machine, 39. sanitary facilities | PARK_ 40. outdoor public space, 41. green area, 42. stretch of water.

Ground floor | scale 1:300 | q.+0.00m | 🕡





Contamination and isolation The mixture and integration of the different functions is characterized by different levels of contact: physical connection, visual permeability (opalescent, transparent or filtered

by green) or complete isolation. Characteristic element of the whole intervention is represented by the winter gardens which, from the first reception rooms to the public, represent both the visual anticipation of the Bath premises, and a light structure that allows the dialogue between green and built.

The City Bath

The visitor reception areas of the City Bath, located on the ground floor of the west wing, interact with the flexible area dedicated to events through the open spaces of the café. The main flow of bathers is designed in a linear way so as not to overlap the paths. From check-in, the visitor can reach the Bath area through a changing room for users with reduced mobility (disabled people, the elderly, pregnant women or with small children) located on the same ground floor or go up to the changing rooms on the first floor. Both routes end in the buffer zone in the center of the complex. This double barycentric volume is able to independently access the interactive zone, the resting zone, and the outdoor pool contained in the Whispers Greenhouse. This atrium presents itself as a device capable of directing all the flows and potentially isolating the different areas of the Bath, orienting visitors in an optimal way. The demolition of some of the original arches supports the design will of a transversal permeability to the different rooms of the entire organism.

These expansions are enriched by episodes of vegetation that characterize the new relaxation areas located in the winter gardens.

In addition to the Whespers Greenhouse, the project is completed with the Arches Greenhouse and the Convivial Greenhouse. The first, with an L shape, contains the new recreational pool and acts as a large interior space full of light in dialogue with the surroundings. The second relates to the existing sitting pools and swimming pools. It works as an external decompression space for the rest of the users. The closed portion of this greenhouse contains an independent space for large events in continuity with the Café and the library.

zone is accessed by passing through the boiler room which is kept intact and surrounded by accessory tanks for short dives. From here you can access the remaining part of the saunas which also develop on the first and second floors with large relaxation areas and a massage room for use by bathers. Physiotherapy and massages are

The most intimate area of the resting

located on the ground floor and second floor of the west wing in order to be totally independent from the use of the pools.

The City Library & Café The café is located in a barycentric

position on the ground floor between the City Bath reception and the informal area for mixed use between the café and bookshop. This space can expand (and isolate itself) towards the closed portion of the convivial greenhouse which generates a large container that can be used for special The café is accessible both from

the main entrance on the corner and from the one on via Medená. The latter can be considered as a dedicated entrance for library users, with a reception and book return point. The heart of the study and reading functions is placed on the first and second floors for the benefit of isolation and concentration. The interactive zone and the resting zone, which can be compartmentalized and independent of each other, overlook the convivial greenhouse and the arch house respectively, thus establishing continuous dialogues between the Bath, light and vegetation.

The volume of the room dedicated to interaction rediscovers the wooden structure of the existing roof through the demolition of the last floor. This operation allows to reach a double height that qualifies the space. The interactive zone can be isolated in an independent nucleus (with stairs, lift and services) that can be opened to the city even at night.

The other control points are merged with the office functions and are positioned near the stairwells of the upper floors.

The reception function for writers and related to creative professions is located in the building with the entrance from Vajanského nábrežie, such as to guarantee an independent logic of flows and privacy.

Functional independence and Milestones

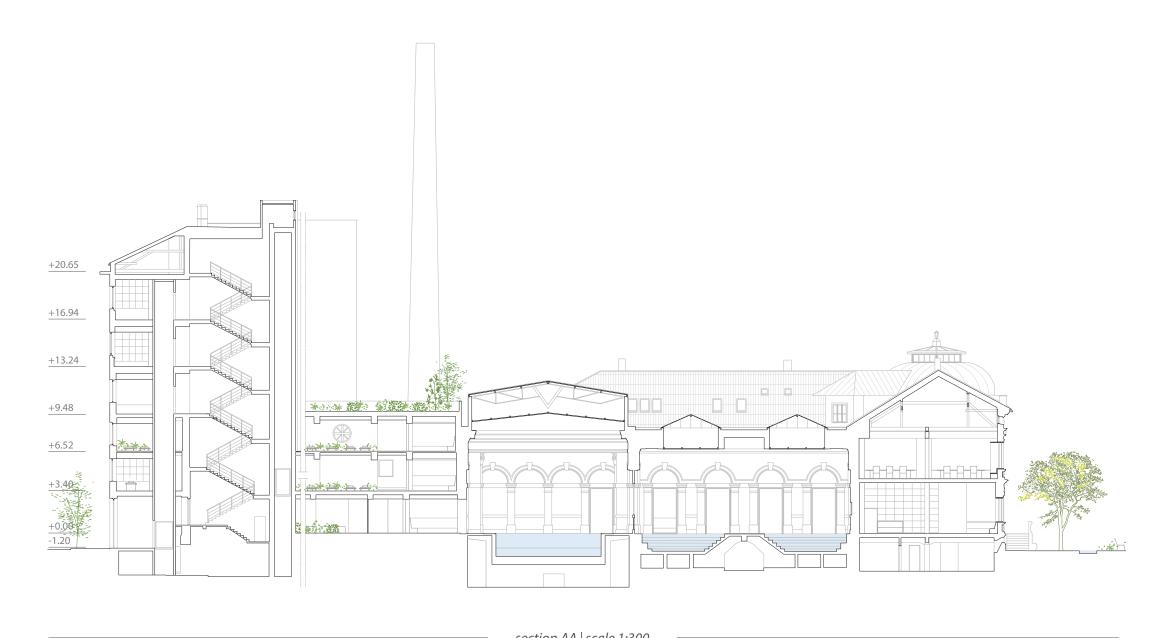
The configuration of the accesses allows the independent use of the various portions of Grössling with consequent energy and management autonomy. It is also possible to note how the project pays particular attention to the separation of flows between the parts (Bath, Library, Cafè, Residences) and between the types (Users, Staff, technicians and maintenance paths). For the specific analysis of all flows, see the plans and the axonometric exploded view of panel 4.

The attention paid to the dynamics of use also favors the evolution of the construction site by parts. On a preliminary basis, we can indicate four milestones as the path to the recovery of the entire complex that allow it to be opened to the public incrementally without interfering with work and use.

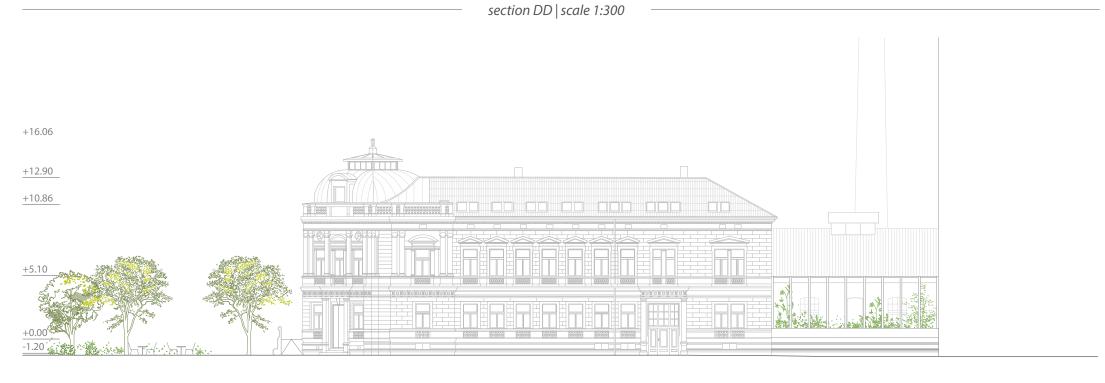
1. basement and facilities, West wing with reception, changing rooms, interactive areas of the City baths with Arches Greenhouse and Convivial Greenhose).

2. City Bath resting zone with Whispers Greenhouse and outdoor

3. City library, Grössling café and outdoor park. 4. Guest residences.



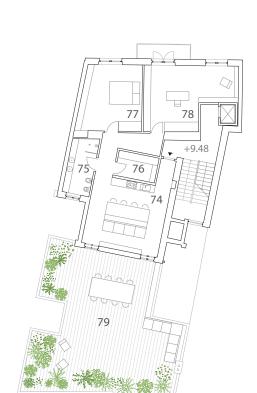






CITY BATH_ 43. changing rooms, 44. hygienic filter | RESTING ZONE 45. resting space, K. plunge pool, 46. finnish sauna, 47.sanarium (biosauna), 48. cooling showers, 49. sanitary facilities, 50. meditation area, 51. body treatment | CITY LIBRARY | LIBRARY_52.desk for book ending, 53. office, 54. office for the executive, 55. sanitary facilities, 56. open access shelves (resting zone), 57. study facilities-workshop room, 58. open access shelves (resting zone), 59.central counter.





CITY LIBRARY | RESIDENCY ZONE_apartment A_74.living, 75.bathroom, 76.storage, 77. bedroom, 78 studio, 79. terrace.

Third floor | *scale 1:300* | *q.*+9.48*m* | *()*

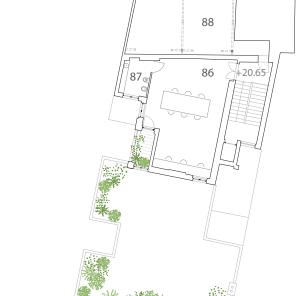
CITY LIBRARY | RESIDENCY ZONE_apartment B_ 83. individual studio, 84.open studio, 85.batho-



CITY LIBRARY | RESIDENCY ZONE_apartment B_ 80.living, 81. bedroom, 82.bathroom.

Fourth floor | *scale 1:300* | *q.*+13.24*m* | (*y*)





CITY LIBRARY | RESIDENCY ZONE_86. open atelier, 87. bathroom 88.storage





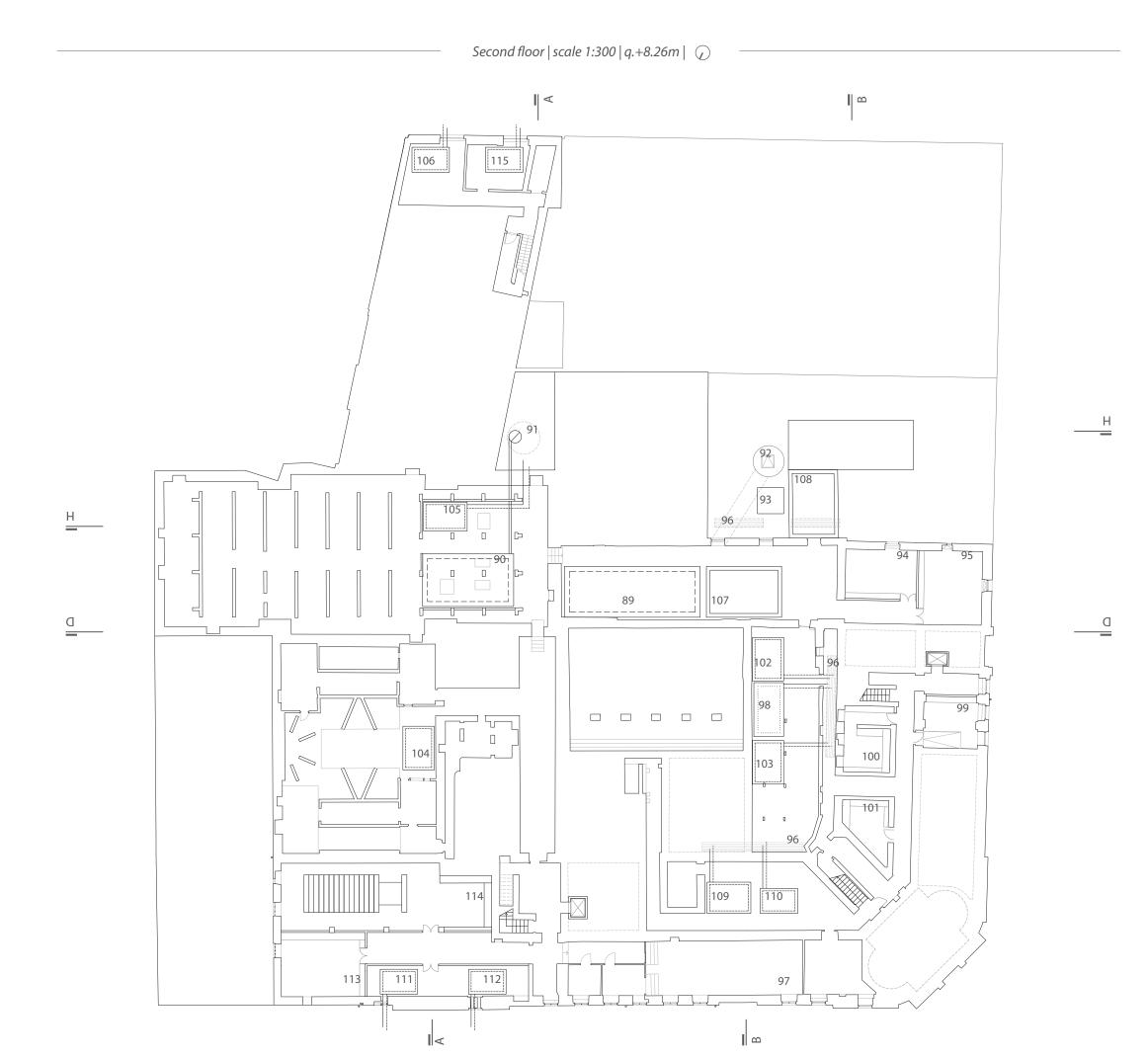
section BB | scale 1:300 +12.90 +5.10 +0.00 -4.25



section HH | scale 1:300



CITY LIBRARY | LIBRARY _ 60. office and control point, 61. sanitary facilities, 62. open access helves (resting zone) | CITY BATH | INTERACTIVE ZONE _ 63. offices waiting room, 64. office, 65. massages changing room, 66. massage for individuals, 67. massage for couples. RESTING ZONE_68.resting space, 69. cooling showers, 70.tearoom, 71.light sauna, 72. aroma sauna, 73.sanitary facilities.



 $89. heat pomp, 90. gas room, 91. chimney, 92. existing well, 93. new well, 94. workshop, 95. chemical storage, 96. aeration grid, 97. existing transformer station, 98. chiller {\it CITY BATH}_99. storage for dirty facilities, 100. storage for the contraction of the contraction o$ cleaning facilities, 101. laundry room, 102. HVAC Arches Greenhouse, 103. HVAC dressing-massages-offices, 104. HVAC sitting pools, 105. HVAC swimming pool, 106. HVAC resting zone, 107. pool A machine room, 108. pool G $machine room | \textbf{CITYLIBRARY}_109. HVAC library, 110. HVAC cafe, 111. HVAC Convivial green house (indoor portion), 112. HVAC library interactive zone (h24), 113. cafe storage, 114. library storeroom for books, 115. HVAC residency.$

Intervention methodology

The project develops starting from the structural analysis provided by the competition documentation. The demolitions carried out refer to three strategies:

1. elimination of the additions accumulated over the years which have contributed to confusing the quality of the existing spaces.

2. opening of some of the arches of the

pools in order to connect the entire system transversely and towards the new spaces of the greenhouses. 3. demolitions aimed at increasing the quality of the spaces (Library

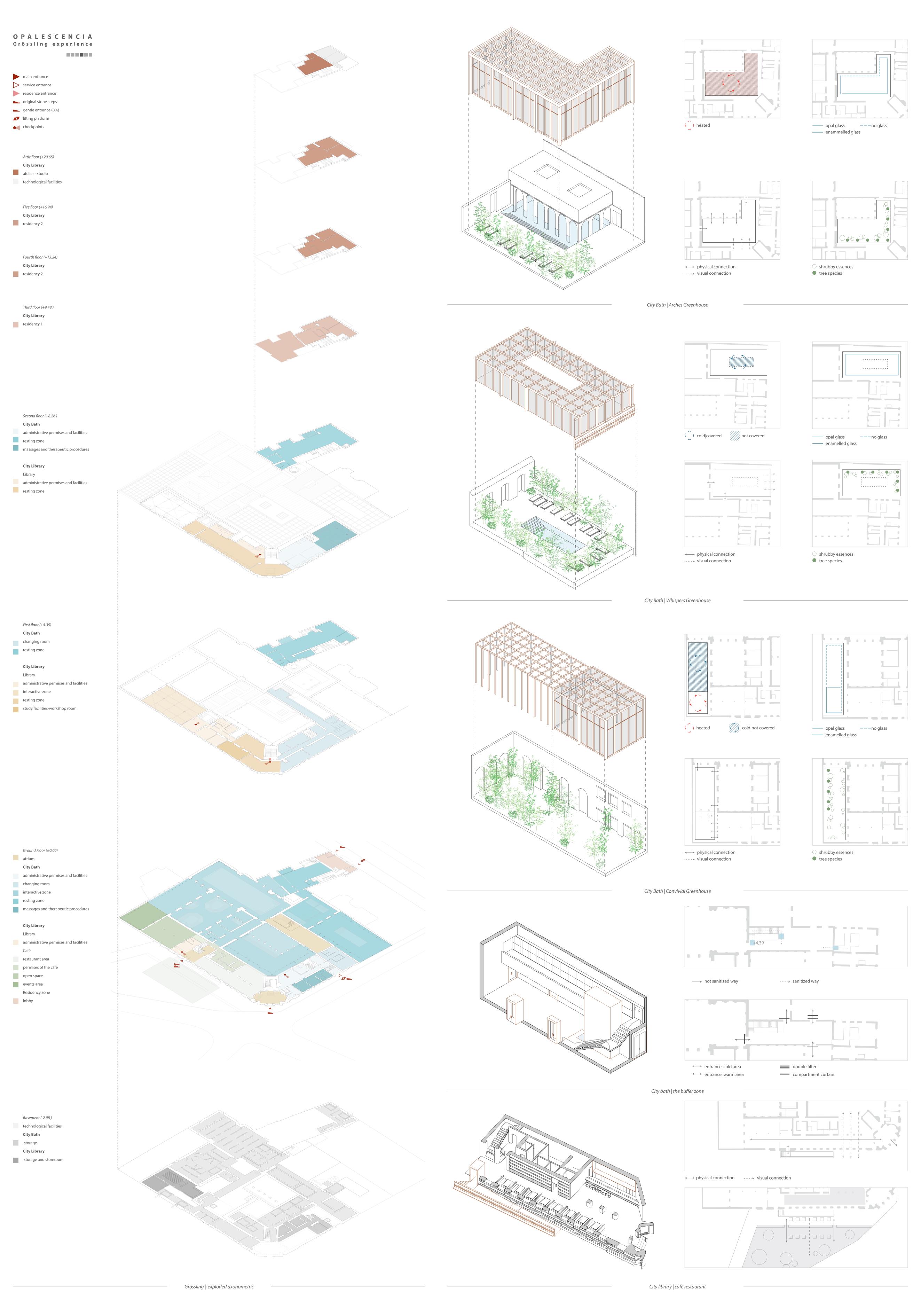
interactive zone floor, City Bath buffer zone floor).

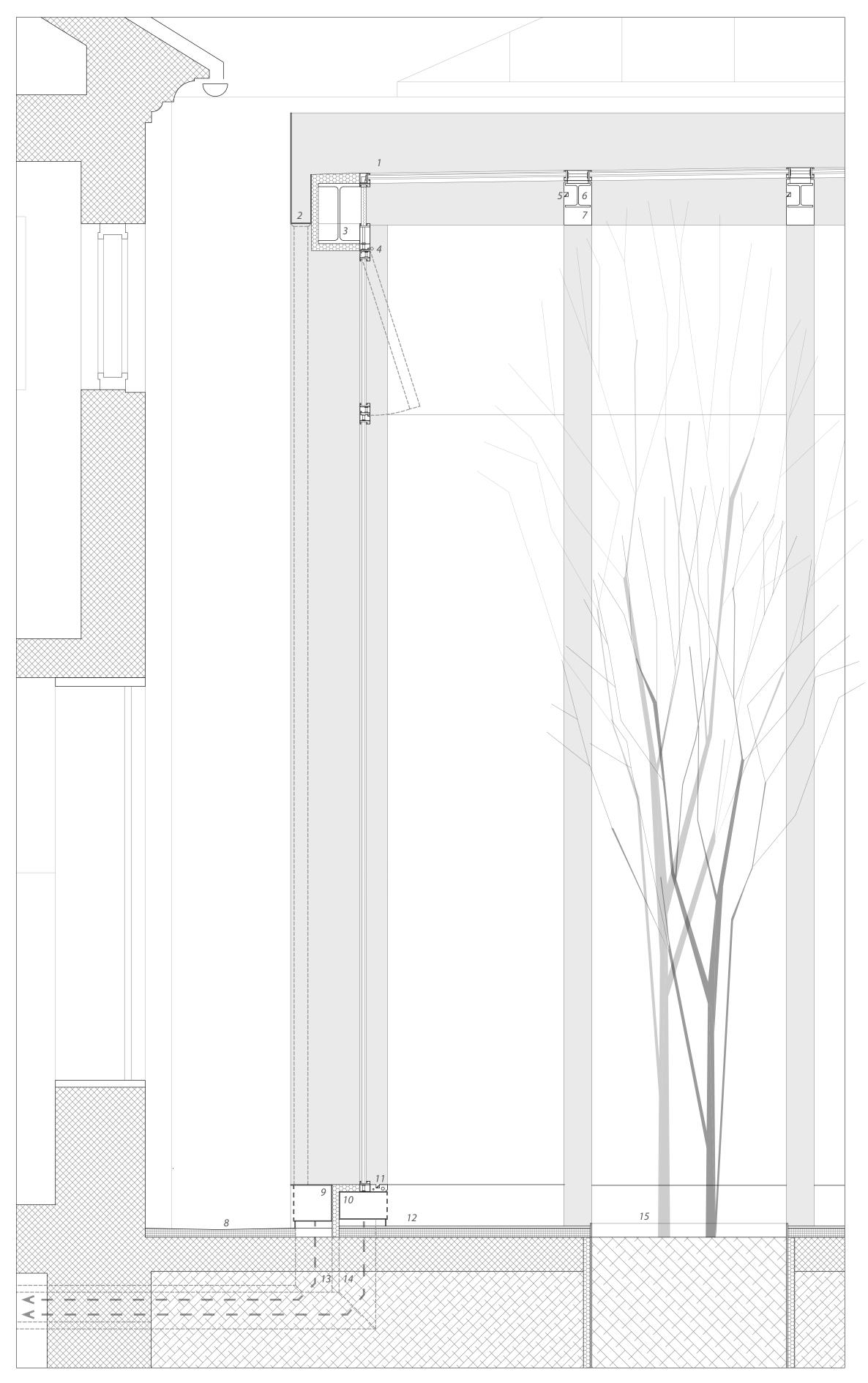
Most of the existing structures are kept unaltered. The facades, the boiler room and the chimney are kept intact in historical memory and only

subjected to conservative restoration.

Given the delicate nature of the context and the generosity of the spaces available, the new buildings are limited to a few episodes capable of introducing the contemporary style of the new Grössling. The greenhouse system presents itself as a light and permeable intervention that tries to enhance by contrast the massive and plastic presence of the existing situation.







The Greenhouses | Structural analysis

detail index

.12

.13

.14

.15

roofing system

window system

lighting | strip led

snorkel

air intake vent

snorkel duct

vegetation

air intake duct

_thermal break aluminum _ triple glazing, selective metal gutter d. 2mm structural steel HEB 450

_thermal break aluminum _triple glazing, selective

structural steel HEA 180

flooring | concrete paving

lighting strip led | electrical

flooring | drowned tiles

metal casing d. 2mm

The new volumes are designed to be independent from the existing structures. The position of the greenhouses allows local foundation interventions without interfering with existing foundations and functions within the basement.

The structures have been designed in S275 steel, in order to minimize the loads on the existing slabs. The structural checks were carried out according to the Eurocodes, considering all the vertical permanent loads, snow load and horizontal loads such as wind and earthquake. In order to not apply bending moment actions on the existing slabs it was decided to design the new structures with hinge constraints at the base of the pillars.

It was decided to analyze the two most problematic structural configurations (Arches greenhouse and Whispers Greenhouse). The Convivial Greenhouse represents a simpler variation of these models also due to the fact that in the portion facing the existing pools it does not support load on the roof as it is a loggia permeable to atmospheric agents. All the new structures will be treated to guarantee R60 fire protection and then coated with

For analysis and design of steel frameworks structural models were created in MidasGen 2020 and FEM ansalysis of the structures were carried out.

metal sheet.

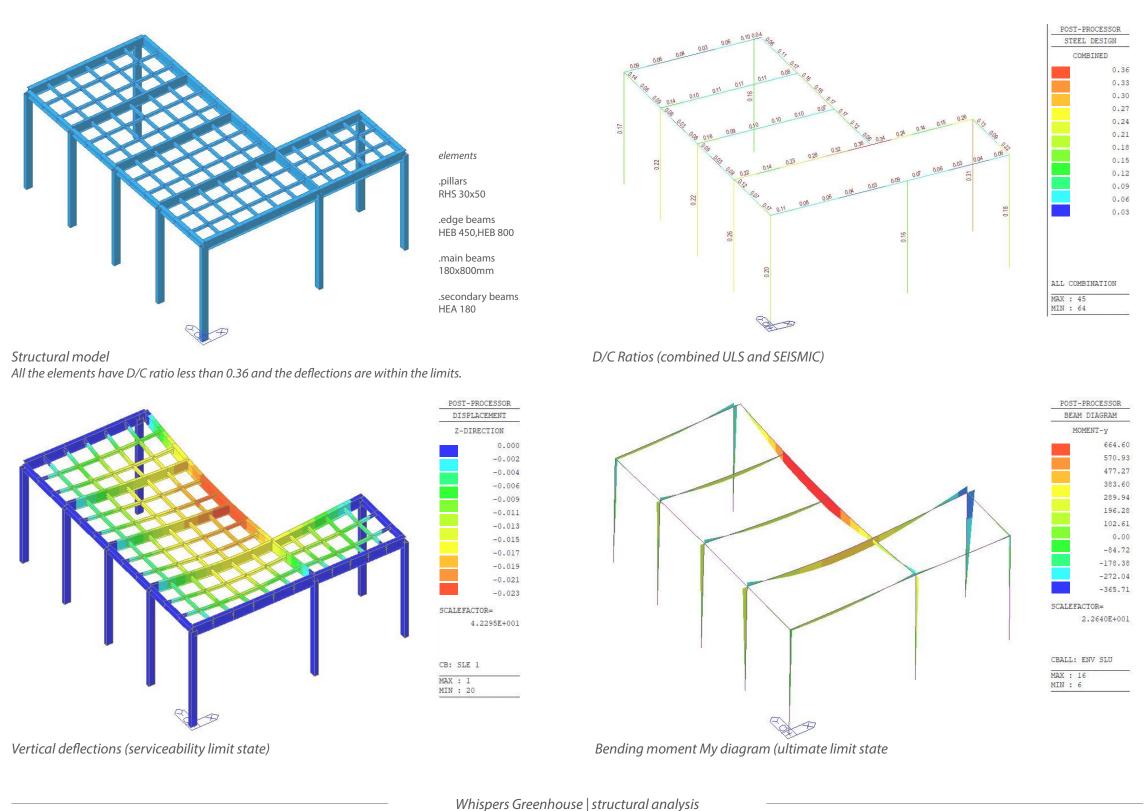
The Greenhouses |Lighting analysis

In the existing external areas, the project intervenes through the inclusion of light greenhouses that remain below what is indicated by the analysis provided by the competition (03_svetlotechnika_ light engeneering.dwg).

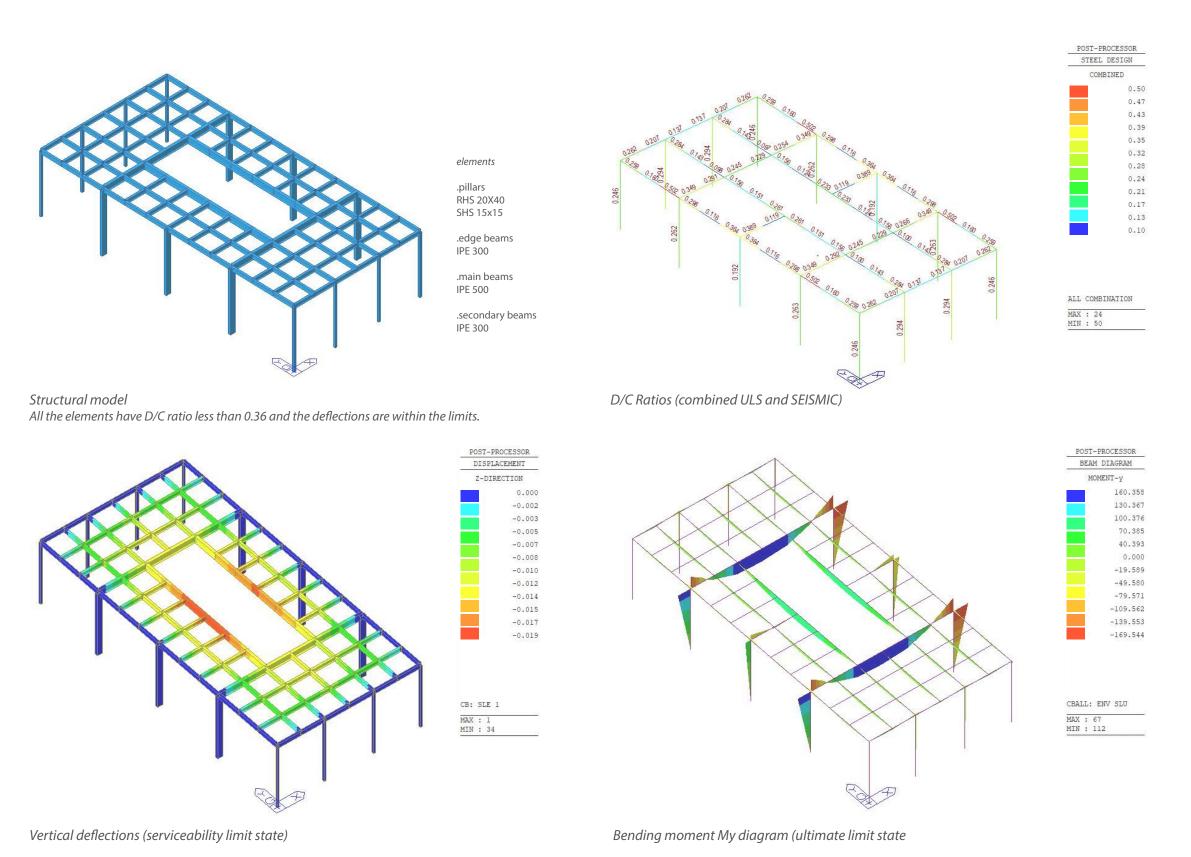
With reference to the measurement system adopted in the file, 140.56 is considered as control point.

The Whisper Greenhouse maintains a constant section with a maximum height of 145.56 (less than the reachable height of 146.39).

The Convivial Greenhouse is divided into a heated events area with a constant section and a maximum height of 148.56 (less than the achievable height of 154.97). The remaining part of the greenhouse is an open and uncovered structure that guarantees irradiation to the relative portion of the facing houses with the aim of shielding the different buildings ensuring their privacy.



detail of the Arches Greenhouse | | scale 1:20



Interactive zone - pools

Type of pool	surface area	average depth	pool water temperature	room temperature	water surface overlap	surface of the indoor- to-outdoor pool (area opening on the facade towards the exterior)	
	m2	m	°C	°C	yes/no	m2	
A recreational pool	140	1,4	30	28	no	see notes	
B hot pool	38	1,4	38	30	yes		
C warm pool	35	1,4	35	30	yes	40	
D whirpool	10	1,4	36	30	yes		
E swimming pool	210	2	28	28	no	30	
F plunge pool	7	1,4	15	30	no	_	

	Notes
ing pool is located within th	ne main courtyard of the complex, occupied b

the greenhouse of the arches. The new glazing system tries to make this area perceive as an outdoor area that is habitable all year round. The greenhouse can be partially opened to be naturally ventilated during the summer. These pools derive from the adaptation of the existing seating pools. The internal opening of the existing arches is aimed directly at the new convivial greenhouse (a real outdoor space subject to rain and vegetation).

The same operation of opening the arches is carried out as for the seating pool. The convivial greenhouse is a space for relaxation and external decompression in common with these two areas of the interactive zone. the plunge pool (F) is located nearby the steam bath (16).

Outdoor pools				
Type of pool	surface area	average depth	pool water temperature	water surface overlap
	m2	m	°c	yes/no
G recreational-warm pool	40	1,6	28-32	yes

Saurias		
Sauna type	floor area	power
Saulia type	m2	kW
16 steam bath	20	6
20 Finnish sauna	14	2,5

Resting zone - saunas

Sauna type	floor area m2	power kW
(numero) steam bath	25	4
(numero) Finnish sauna	16	4
(numero) Sanarium (biosauna)	16	3
(numero) Light sauna	16	2

ground floor_The first area of the resting zone is placed in the boiler room inside which there are small suggestive spaces such as the Kneipp path (H_14m2) and two tanks (J| cold pool_9m2_15 ° C, I| hot pool_9m2_42 ° C) for short dives serving both the steam bath (numero) and the outdoor pool (H) visitors who have access to the first floor_the cool off area includes an enclosed cooling pool (K | 9.5m2_15 ° C) and

second floor_ the cool off area includes cooling showers.

Heating and Ventilation

(numero) | Aroma Sauna

Total functional area	floor area	heated floor area	indoor heating temperature	forced ventilation	ventilated volume of space
	m2	m2	°C	yes/no	m3
City Bath interactive zone	1710	1290	28	yes	7740
City Bath Resting zone	830	830	28	yes	2241
City Bath reception, changing rooms, sanitary facilities, massages, therapeutic procedures, bath offices	875	875	20-25	yes	2625
Grössling Cafè restaurant-bar-informal space	400	400	20-22	yes	1600
Grössling library resting area, interactive area, offices	300	300	20-22	yes	1455
Convivial Greenhouse events portion	100	100	20-22	yes	750

11 2,5

The Whispers greenhouse and the external portion of the convivial greenhouse represent the unheated spaces belonging to the interactive zone.

The healthcare and changing room facilities are unique for the resting zone and the nteractive zone in order to optimize the overall management by dividing the flows only after the change. The massage and therapy area can be reached without entering the pools for independent external users. Two other massage rooms are located on the first and second floor of the resting zone for the benefit of users who want to

The informal space is a hybrid place for the benefit of both the café and the bookshop. The space is isolable so that it can host independent events or not be heated during periods of inactivity The main reading room on the first floor is designed to be able to remain open independently from other spaces (for example at night).

It represents the heated and closed part of the convivial greenhouse. It benefits from an all-air conditioning system that is independent from the other areas of the café and library in order to optimize the use of energy only during events.

Cooling

Total functional area	floor area	cooled floor area	indoor cooling temperature	forced ventilation	ventilated volume of space
	m2	m2	°C	yes/no	m3
City Bath interactive zone	1710	1290	28	yes	7740
City Bath Resting zone	830	830	28	yes	2241
City Bath reception, changing rooms, sanitary facilities, massages, therapeutic procedures, bath offices	875	875	20-25	yes	2625
Grössling Cafè restaurant-bar-informal space	400	400	20-22	yes	1600
Grössling library resting area, interactive area, offices	300	300	20-22	yes	1455
Convivial Greenhouse events portion	100	100	20-22	yes	750

The vegetation inside the greenhouses represents an important element of ermoregulation and cooling, especially in the summer season. The Arches greenhouse is equipped with a vasistas system that allows natural ventilation.

during the summer season the café will be able to expand outside towards the city, benefiting from the natural external ventilation, the ample shade caused by the existing trees and from the evaporation of the new external linear fountain.

This portion of the convivial greenhouse can be naturally ventilated thanks to a system of vasistas openings.

Heat source for heating, hot water preparation and pool water heating

Source of heat	Short description
geothermal	Water-to-water heat pump (HP). Production for air conditioning, DHW, swimming pool water. Use of two wells for taking and re-placing them in the water table. it is important to balance the loads between summer / winter in order not to thermally load the subsoil in the long term.
natural gas (methane)	This is the energy carrier serving the combustion boiler. Production for: air conditioning, DHW, swimming pool water. Priority production for: HT (radiators), back-up production for: air conditioning, DHW, swimming pool water
HVAC heat recovery	Each HVAC will be equipped with cross-flow heat recovery on the primary air (fresh air). A heat recovery efficiency (η) is estimated in the order of 75%.
heat recovery Centrifugal chiller	Considering that the chiller for the production of the cold will be of the centrifugal type, the hot air in expulsion will be used for a pre-heating of the swimming pool water. A heat recovery efficiency (η) is estimated in the order of 50%

Questionnaire for energy assessment_spa Grössling

Energy strategies

In accordance with the requirements, the design idea provides for a multi-generator thermo-refrigeration unit consisting of: 1. HP - geothermal heat pump (groundwater);

2. combustion boiler (methane gas); 3. air / water chiller. In addition to the existing radiator circuit, the emission systems will be divided into four distinct groups according to the various uses of the property. The division allows flexible and heterogeneous energy management. The meta-design scheme shown in the graphic drawings and the planimetric arrangement of the equipment in the

basement helps to contextualize the following concepts and understand their location.

Generators 1 and 2 are used to produce heat. In accordance with the most current energy strategies, the HP (1) will be sized to cover approximately 50% of the required power. The source of heat is groundwater which will be withdrawn and reintroduced from the subsoil thanks to two intake wells (one new and the other existing). The combustion generator (methane gas) will serve as a back-up for the priority generator. Its function will be back-up for power peaks and to manage high temperature circuits (radiators, DHW). The meta-design diagram graphically highlights the subdivision of the winter energy coverage between the two generators (boiler for high powers but for a short duration of the season / HP for lower powers but for the entire duration of winter).

Cold production

HVAC_C

HVAC_D

100%

50%

WINTER

Considering its high performance, the geothermal HP (1) is also used for the production of cooling energy in the summer. This is accompanied by an air / water centrifugal chiller which allows to cover the power peaks. The exchange with the energy source (air) takes place thanks to gratings located in accessory areas (see plan). To optimize the energy efficiency of the system, the overheated exhaust air, necessary for the production of cooling energy, will be used for pre-heating of the swimming pool water.

Emission systems (ventilation)

The HVACs will be divided into four functionally independent groups (see diagram). If for resting zones and bath facilities a single HVAC is suitable to satisfy the comfort of the relevant environments, for the interactive zone and for the library / café it is considered right to propose a higher number. The closed rooms that host the indoor pools need special ventilation both from the aeraulic and hygrometric point of view. The optimal solution provides three distinct units, one for each indoor pool, which can

vary the set points dynamically and independently. The library cafe area includes heterogeneous areas for use and energy characteristics. For this reason, it is considered necessary to equip the area with four ventilating units which will serve respectively: library, library interactive zone (24h), café, special events. All HVACs include heat recovery systems for energy optimization of air conditioning. Among these, the three HVACs serving the pools stand out, as well as including the increased adiabatic recovery section, these are equipped with integrated low-consumption dehumidification technologies that do not burden the energy production systems.

HVAC_E

HEAT PUMP

EXISTING

HVAC_L

INSTALLATION

HVAC_A

HVAC_B

HVAC_H

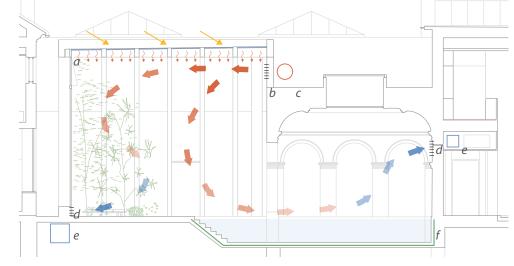
HVAC_I

The Greenhouses | bioclimatic

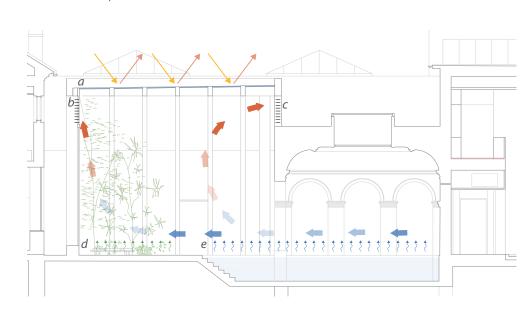
The winter gardens perform the function of bioclimatic greenhouses obtaining various advantages both during the cold and hot seasons.

In winter, the greenhouse effect is exploited with the result of having a strong heat gain while also maximizing the amount of natural light that relates the new light and bright spaces with the rarefied atmosphere of the existing ones.

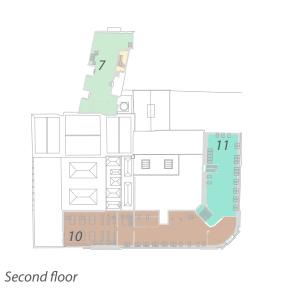
In summer, natural vertical ventilation is expected to be exploited through the opening of the facades. The presence of vegetation that acts as a shading and thermoregulation element of the space.

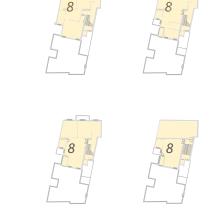


Cold season | a.selective galss, b.air inlet vent, c.air inlet duct, d.air intake vent, e.air intacke duct, f. water isolation

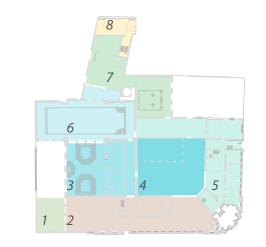


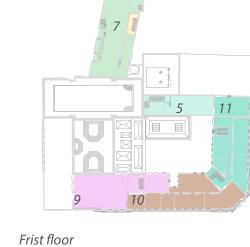
Hot season | a.selective galss, b.window natural air vent, c.nozzle natural air vent, d.vegetation contribution, e.water mass contribution.





Third | Forurth | Fifth | Attic floor





Ground floor

Zo	ne	HVAC	existing radiators	Zone		HVAC	existing radiators
.1	city library event	Α	no	.7	city bath resting	G	no
.2	city library cafè	В	no	.8	residency	L	no
.3	city bath interactive_1	C	no	.9	city library h24	1	yes
.4	city bath interactive_2	D	no	.10	city library	Н	yes
.5	city bath facilities_1	Ε	no	.11	city bath facilities_2	Ε	yes
.6	city bath interactive_3	F	no				

CHILLER

O P A L E S C E N C I A Grössling experience

Materiality

The visual permeability between environments with different users and between inside and outside the complex is attenuated by the opalescent connotation of the closing glass of the winter gardens, also recalling the steam condition typical of the wetlands of the Bath. Bronzed etched steel is used for all the new detail interventions and to cover the greenhouse structures. The design proposal envisages a modern reworking of the historic floors through the design of a new tiling, which guarantees the healthiness necessary for the recovery of the bathrooms. The chromatic differentiation of the same flooring unifies the perception of the project through only the color variation of the mortar of the tiles. The materials of the library find a dialogue with the atmosphere of the City Bath through the use of the same metallic details. The flamed beech furnishings recall the wooden deck of the existing roof in search of a warm and domestic atmosphere for dining and studying.

Green design The plant component plays a central role within the project both for the visual and perceptive importance of nature and for the contribution to environmental comfort. Specially studied tree and shrub species have been selected in accordance with the particular climatic conditions of the place and with the filtering properties of the various species. In this way, oxygenation and indoor air quality are obtained thanks to the ability to absorb and degrade atmospheric pollutants. The trees used maintain growth and a contained root system that does not interfere with the built structure.All species require limited maintenance, creating minimal disruption in the leaf replacement season.



Kúpeľňa Street | the relationship between old and new front



The Café | permeability towards the greenhouse



The external device (top view) | sculpture, bench, ramp



The City library | The Interactive Zone

Materials



bronzed treated sheet





drowned tiles_01

drowned tiles_02

drowned tiles_03

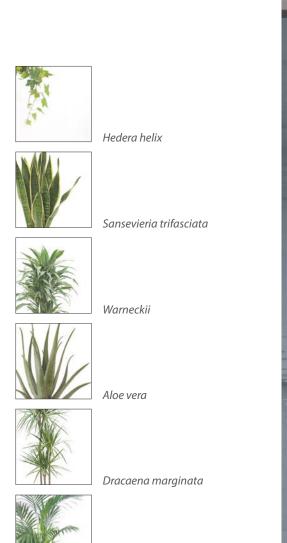
drowned tiles_04







The swimming Pool and the Convivial Greenhouse







pathiphyllum Mauna Loa



