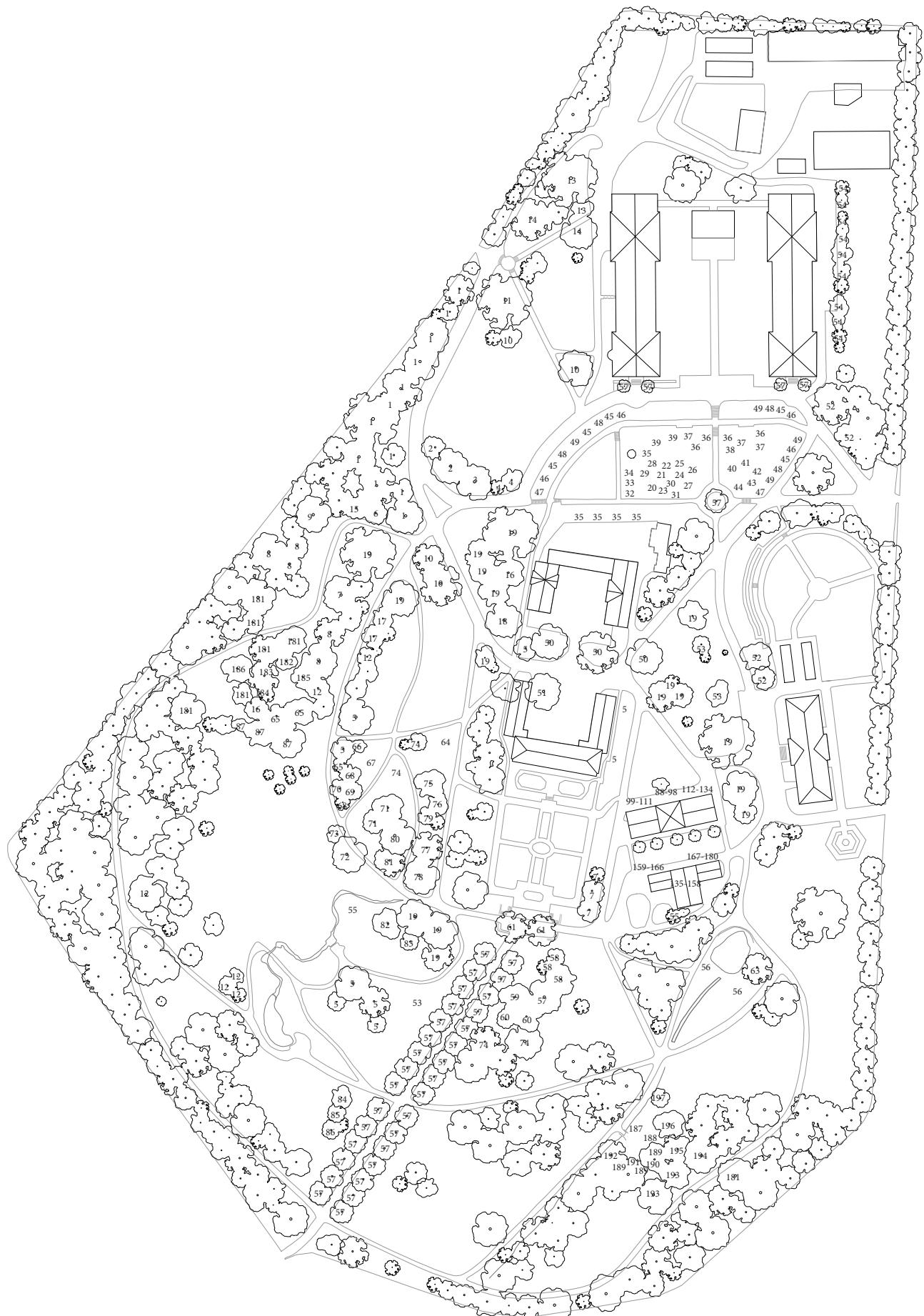


Botanical Gardens have seen a revival as scientific institutions due to the emergence of the conservation of plants worldwide. Their importance is growing due to the existing collections and the scientific knowledge they posses in the propagation of plant species.

The Botanical Garden in Oslo has a collection of more than 6.600 different plant species from around the world. A large part of these plants are endangered and preserved outside of their natural environment. This diploma is introducing a new building for research and learning that is representative for the scientific work performed in the garden. If we see the whole garden as a large research field, the house for the plants should have a stronger presence as an important part of the story of the garden.

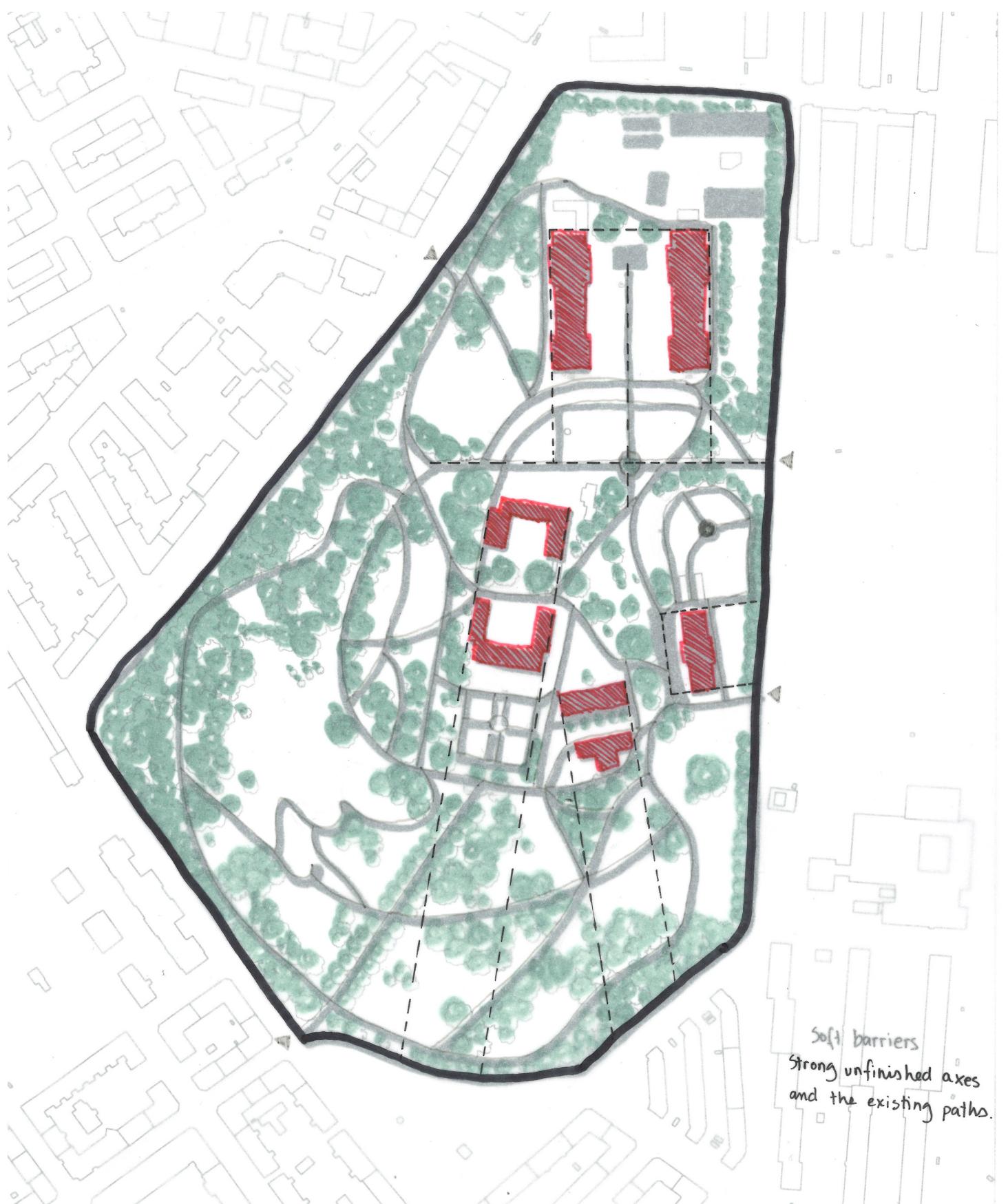
During the process I have been looking at the whole garden as a site, choosing the placement of the new building through a series of volume studies and analysis of the site.



EXPLORING THE GARDEN

1	Prunus Avium	70	Viburnum lantana	VICTORIAHUSSET
2	Prunus Serrulata	71	Thuja occidentalis 'holmstrup'	VICTORIA ROMMET
3	Malus purpurea	72	Corylus colurna	
4	Malus profusion	73	Chamaecyparis pisifera	
5	Betula pendula	74	Hippophae rhamnoides	135 Pavonia multiflora
6	Phelodendron amurense	75	Toxicodendron vernicifluu	136 Gossypium ssp
7	Aesculus hippocastanum	76	Ptelea trifoliata	137 Petrea volubilis
8	Metasequoia glyptostrodooides	77	Phelodendron japonicum	138 Erythrocrito brasiliensis
9	Corylus Avellana	78	Phelodendron sachalinense	139 Pandanusutilis- Skruelpalme
10	Fagus sylvatica	79	Cornus florida	140 Azolia caroliniana
11	Fagus sylvatica 'Atropunicea	80	Gleditsia triacanthos var. intermis	141 Pentas lanceolata
12	Pinus Koraiensis	81	Picea pungens 'glavca globosa'	142 Synsepalum dulcificum
13	Larix decidua	82	Taxus baccata 'overeynderi'	143 Spathiphyllum wallisii
14	Abies magnifica var. shastensis	83	Pinus pumila	144 Clusia minor
15	Picea jasoensis	84	Prunus serotina	145 Hamelia patens
16	Picea sitchensis	85	Prunus maackii	146 Coton Neulumbo nucifera
17	Sequoiaadendron gigantum	86	Ostrya virginiana	147 Echinodrus muricatus
18	Fraxinus excelsior	87	Stewartia pseudocamellia var. koreana	148 Rhizophora mangle
19	Acer platanoides			149 Barleria cristata
				150 Hibiscus greveanus
				151 Piper nigrum
				152 Zingiber officinale
				153 Stephenotis floribunda
				154 Rivina humilis
				155 Aristolochia macroura
				156 Brunfelsia americana
				157 Cinnamomum zeylanicum
				158 Victoria cruziana
				AFRIKA ROMMET
				159 Carica papaya
				160 Catharanthus roseus
				161 Pachypodium lamieri
				162 Coffea arabica
				163 Seadoxus puniceus
				164 Musa sp.
				165 Sorghum bicolor
				166 Calvoa orientalis
				EPIFYTT ROMMET
				167 Vanila planifolia
				168 Dendrobium thrysiflorum
				169 Ascocentrum miniatum
				170 Billbergia decora
				171 Ananas comosus
				172 Dendrobium spectabile
				173 Guzmania lingulata
				174 Corytoplectus capitatus
				175 Stylium debile
				176 Pothos scandens
				moser:
				177 Dionaea muscipula
				178 Sarracenia sp.
				179 Pinguicula moranensis
				180 Tillandsia usneoides
				181 Pseudotsuga menziesii f. casia
				182 Pinus nigra ssp. nigra
				183 Picea pungens 'glauca'
				184 Picea engelmannii
				185 Pinus strobus
				186 Juglans regia ssp. regia
				187 Acer sieboldianum
				188 Magnolia sieboldii
				189 Fargesia murielae 'jumbo'
				190 Phyllostachys aureosulcata
				191 Phyllostachys propinqua
				192 Salix Triandra
				193 Acer pseudoplatanus
				194 Acer campestre
				195 Acer trautvetteri
				196 Acer rubrum
				197 Populus tremula

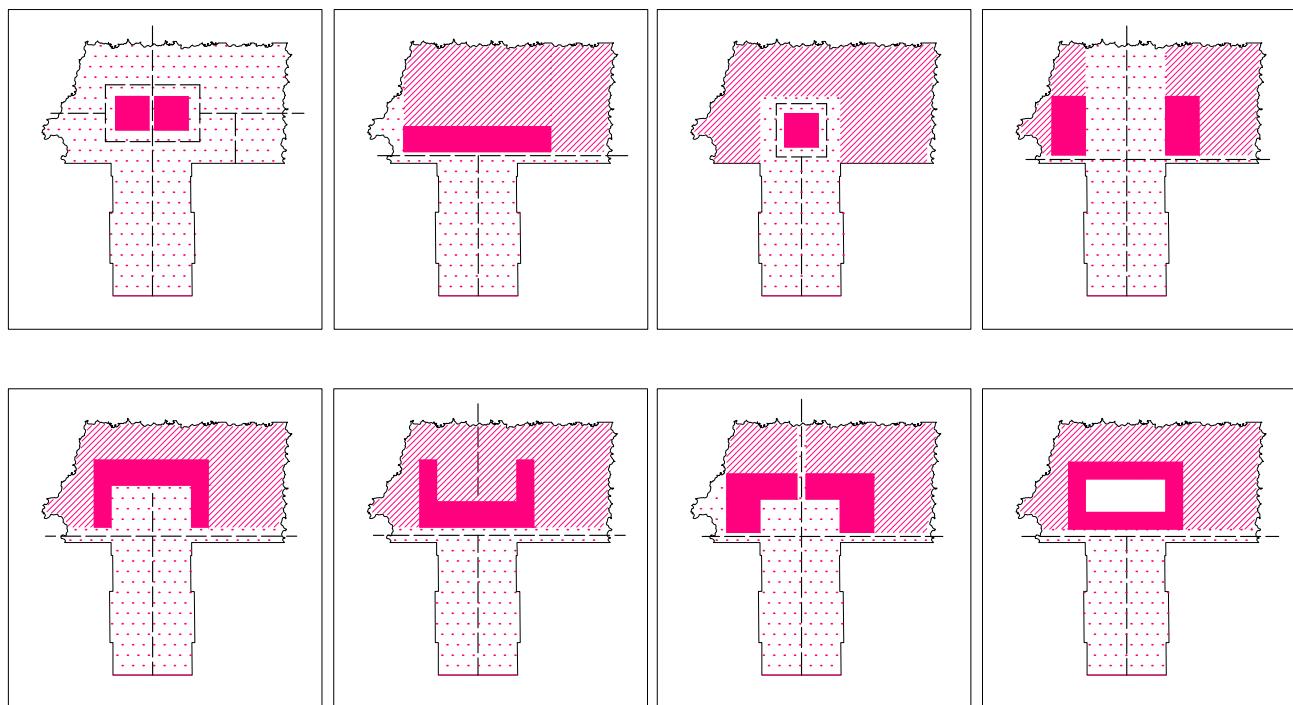
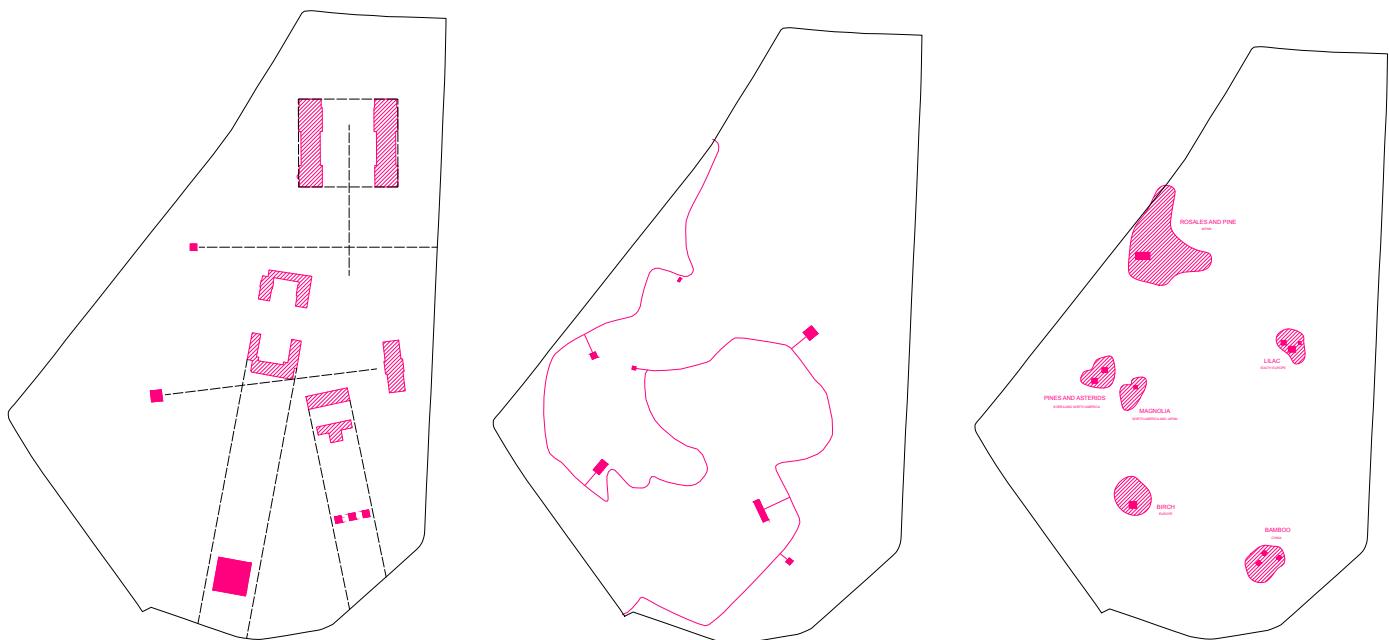


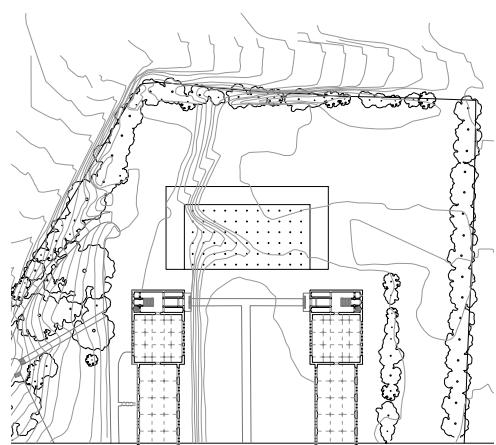
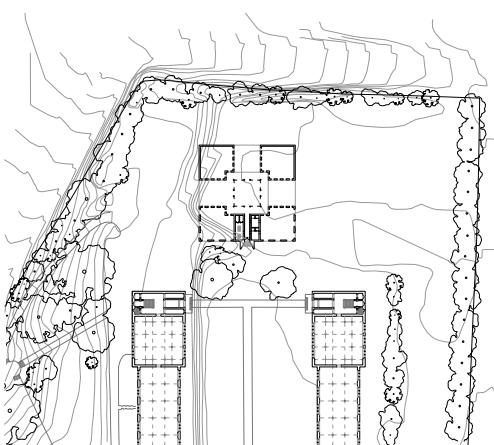


Soft barriers  
Strong unfinished axes  
and the existing paths.

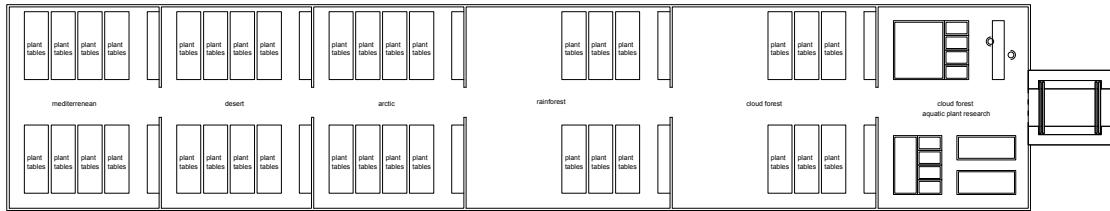
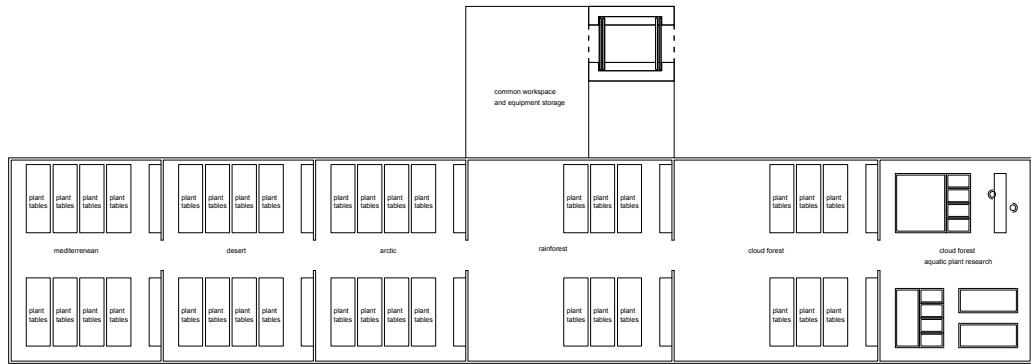
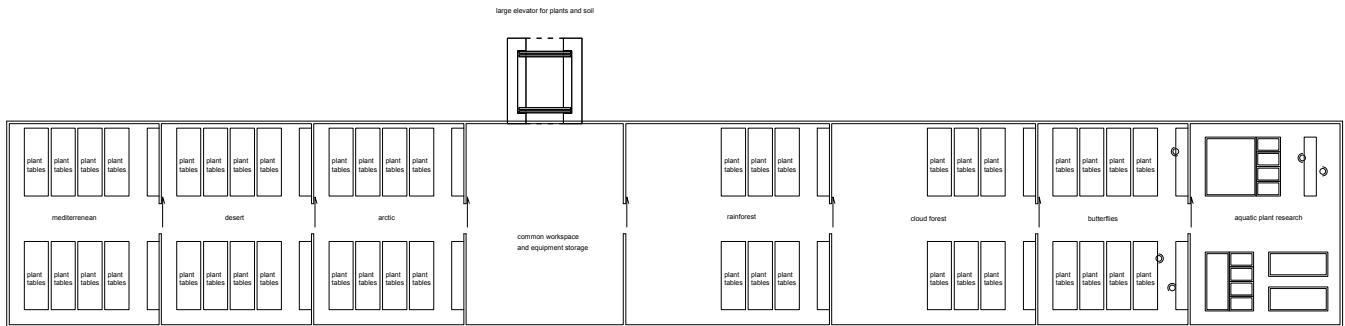
A SERIES OF UNFINISHED AXES

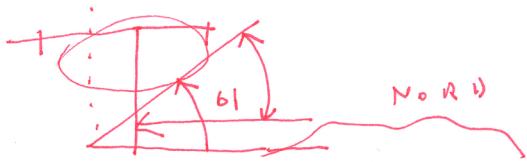
## POSSIBLE STRATEGIES





## FIRST PLANS





	TROPICAL RAINFOREST	CLOUD FOREST	MEDITERRANEAN	DESERT	ARCTIC
IDEAL ORIENTATION	SOUTH or SOUTHEAST	EAST?	can be EAST, WEST or even NORTH	SOUTH or SOUTHEAST	NORTH
AMOUNT OF LIGHT					
TEMPERATURE	<p>R.I. <span style="border: 1px solid black; padding: 2px;">UNSTABLE</span> Day: 27°C - 33°C Night: 2°C - 5°C</p> <p><del>25°</del></p>	<p>13°C - 23°C <span style="border: 1px solid black; padding: 2px;">STABLE</span></p>	<p>Summer: 25°C - 40°C Winter: 3°C - 18°C</p>	<p>Day: 20°C - 45°C <span style="border: 1px solid black; padding: 2px;">UNSTABLE</span> Night: -3°C - 10°C</p>	<p>Summer: -10°C - +20°C Winter: -50°C - 0°C</p>
MATERIAL	.	.	.	.	.
ATMOSPHERE	<p>Humidity: 77 - 88% hot and wet</p>	<p>Humidity: up to 100% hot and warm humid/moist</p>	<p>Humidity: 40 - 70% warm and dry</p>	<p>Humidity: 10 - 30% hot and dry</p>	<p>Humidity: less than 20% cold and dry</p>
BIOME. PLANT COMMUNITY	<p>FOREST (four layers) Emergent: upper canopy: shrubs, small trees, palms, forest floor: bushes &amp; herbs</p>	<p>FOREST mosses, climbing ferns, orchids.</p>	<p>FOREST, woodland SAVANNA, SHRUBLAND CHAPARRAL?</p>	<p>DESERT cactus, bushes, low trees</p>	<p>TUNDRA moss, dwarf shrubs, herbs, grasses, lichens (fungus).</p>
PLANT SIZE	<p>emergent &gt; 30m upper canopy &gt; 18m very tall! to very low lower canopy &lt; 18m</p>	<p>low land &gt; tall vegetation &gt; less wind high land &gt; short vegetation &gt; more wind</p>	<p>varying</p>	<p>low</p>	<p>Very low!</p>
WIND				 can be either very high or very low	

COLD AIR CARRIES LESS MOISTURE  
THAN WARM AIR.

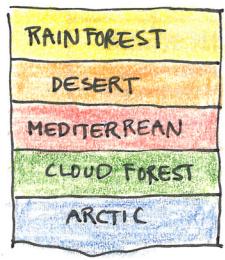
OLAFUR ELIASSON

TOKUJIN YOSHIOKA

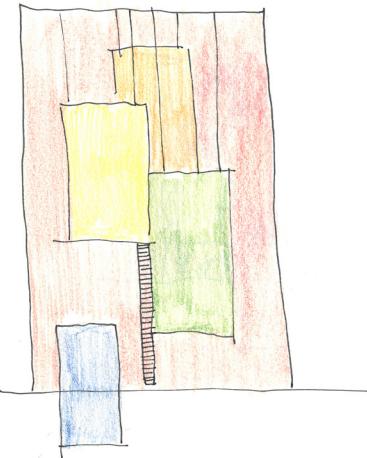
PIET UDOLF

DIETER KINAST  
GÜNTHER VOGT

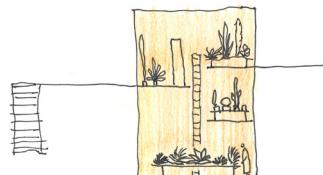
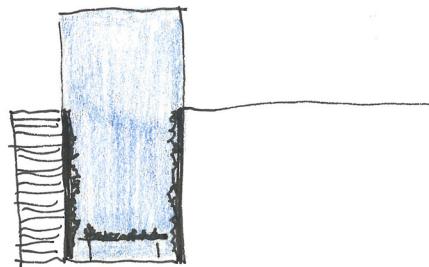
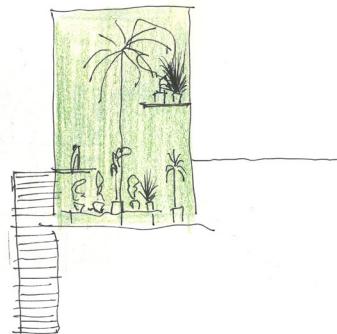
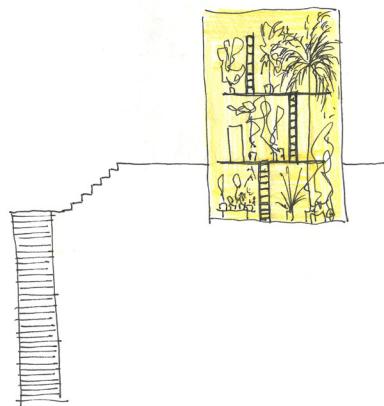
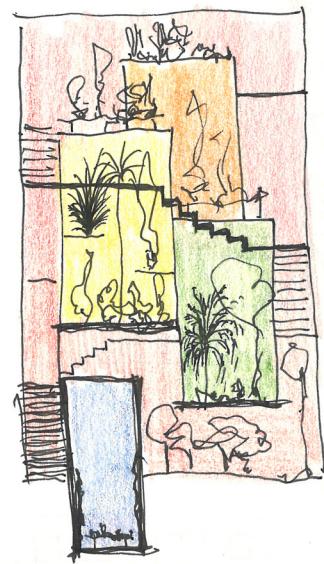
inversion  
det som er ute  
Kommer inn



## CLIMATE IN CLIMATE



TRAPPEJERN I MITEN  
SOM OGSA HENGES FRA TAKET.



hvorfor de fjerne vekstene er plassert over bakken, fjernet og separert fullstendig fra sin opprinnelige natur og alt annet natur.

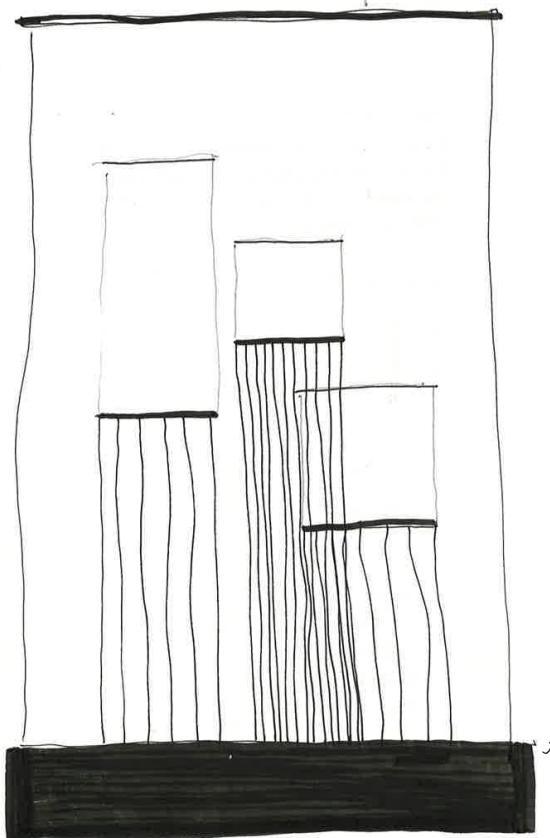
Den eneste naturlige blomstene har å forholde seg til er den arkitekturen skapt for dem.

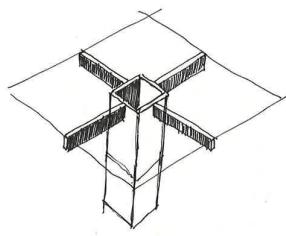
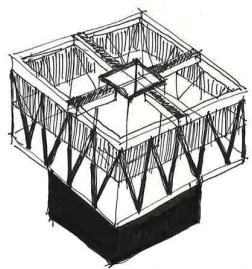
#### Klima inni Klima som Konsept.

- Hvorfor er dette et bra konsept for oppgaven min?
- Hvorfor er ideen om de "hengende" bokserne en bra ide?

Et konservatorium er et bygg som er hundre prosent kunstig, det eneste naturlige elementet i et slikt bygg er plantene som lever inni. Å løfte disse rommene opp fra bakken understrekker det kunstige aspektet ved omgivelsene. Alt fra hvordan du beveger deg inni bygget vil uttrykke og måten plantene stilles ut på understrekker dette faktumet. Plantene er løftet opp fra bakken og plantert på aluminiums bord.

Et konservatorium er et bygg som skal shape de riiktige forholdene for å ta vare på noe. I dette tilfellet står planter fra fem ulike verdensklimater i fokus og Kunnskapen om hvordan å ta vare på denne igjen. Miljøene i bygget er kunstige, men skal så godt de kan prøve å etterligne en natur. Måten plantene er plantert på i rommet understrekker dets frarivelse fra naturen. Plantene står i potter på skybare aluminiumsbord, de plantene som står i potter på gulvet. Plantene er hele tiden løftet opp fra bakken og plantert i en kunstig natur. Denne kunstige naturen er i høyest grad bestemt av arkitekturen.





STRUCTURAL HOLLOW COLUMN

