

see the bigger picture...

IT TAKES A VILLAGE:

An investigation into the decentralization of <u>Neurodiverse</u> & <u>Psychiatric</u> care within a small Dutch locality.

AR3AD110 | Kimberly Grovu | 5201772

L. Oorschoot | K. Macco | L. van Deudekom

P5 Presentation

connect the dots...



neurotypical (adj.)

describes someone who thinks & processes information in ways that are **typical** within their culture.

neurodivergent (adj.)

describes the wide range of neurological functioning that exists among humans and the many ways human brains differ from each other.

Autism (ASD) ADHD Down Syndrome Dyslexia Dyspraxia Tourette's

... condition (n.)

a clinically significant disturbance in an individual's cognition, emotional regulation, or behaviour.

... illness (n.)

mental

refers to a wide range of mental health conditions that affect an individual's mood, thinking, and behaviour.



neurotypical (adj.)

describes someone who thinks & processes information in ways that are typical within their culture.

neurodivergent (adj.)

describes the wide range of neurological functioning that exists among humans and the many ways human brains differ from each other.

Autism (ASD) ADHD Down Syndrome Dyslexia Dyspraxia Tourette's



... condition (n.)

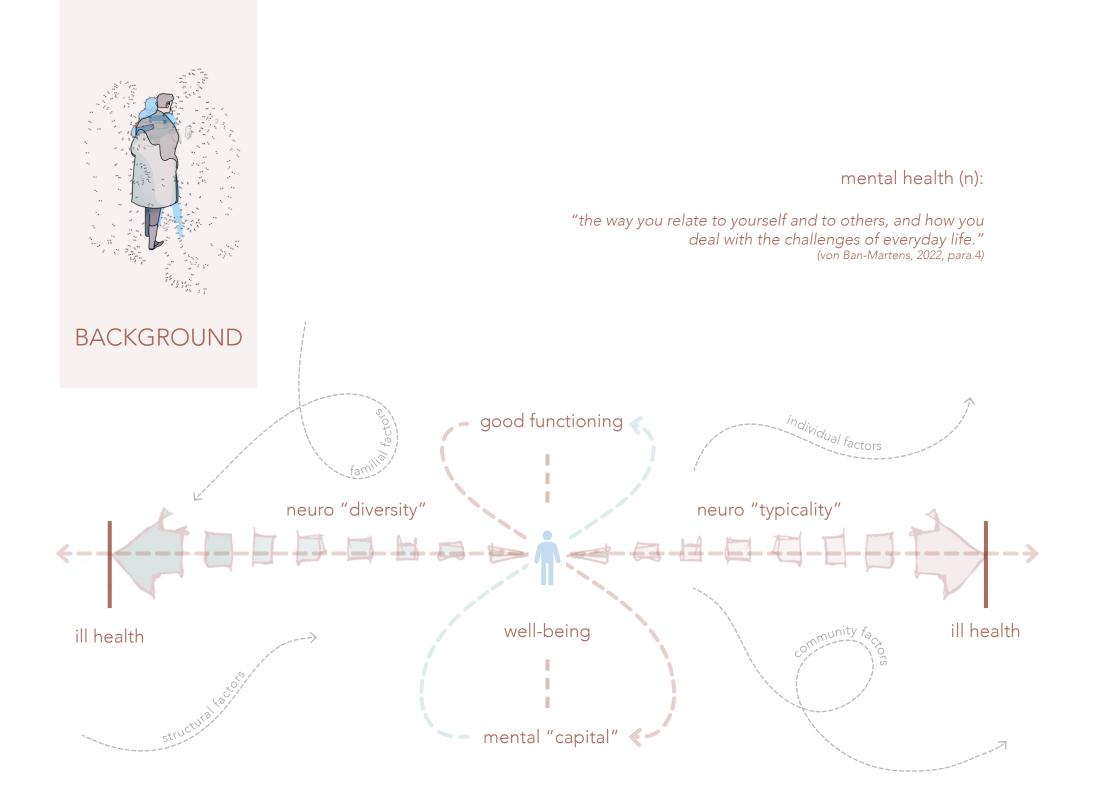
a clinically significant disturbance in an individual's cognition, emotional regulation, or behaviour.

... illness (n.)

refers to a wide range of mental health conditions that affect an individual's mood, thinking, and behaviour.

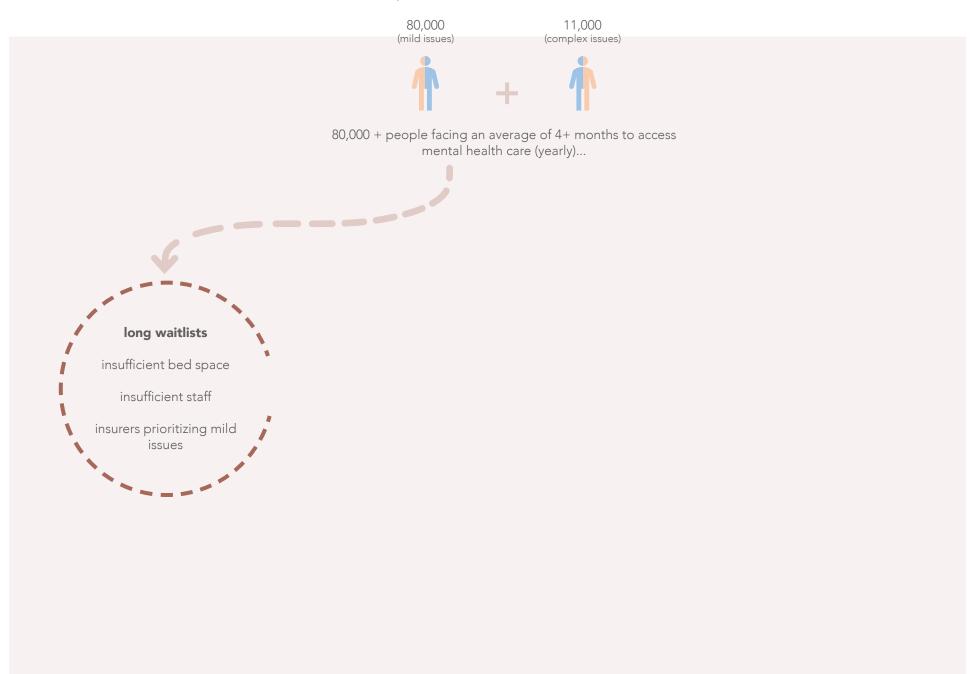
... disability (n.)

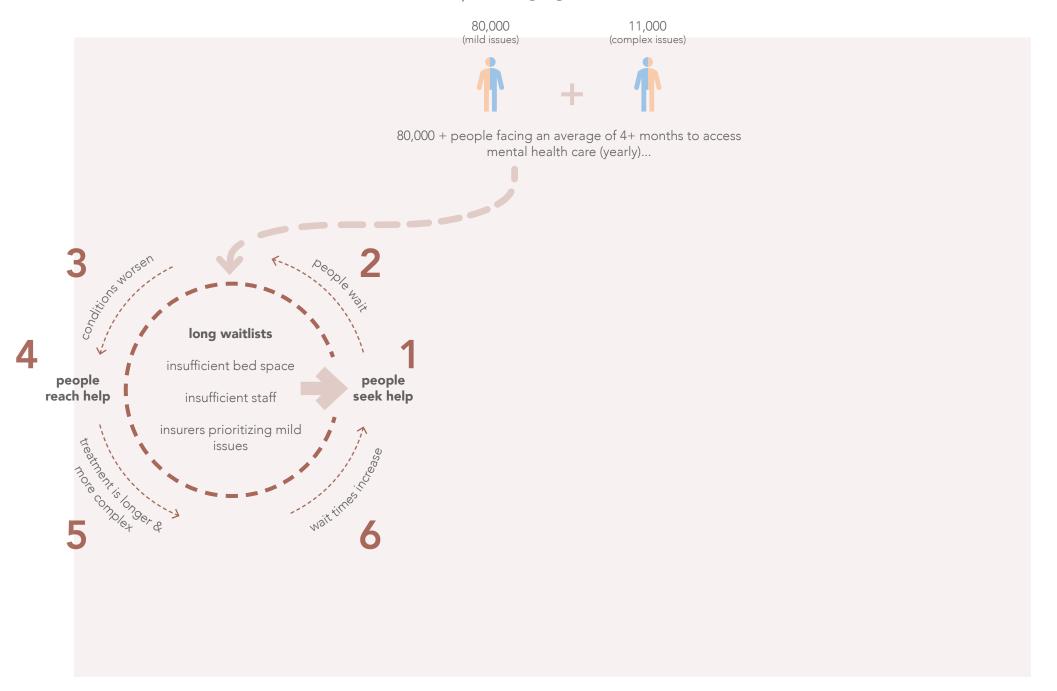
a temporary or permanent condition likely to arise at any point in one's life.

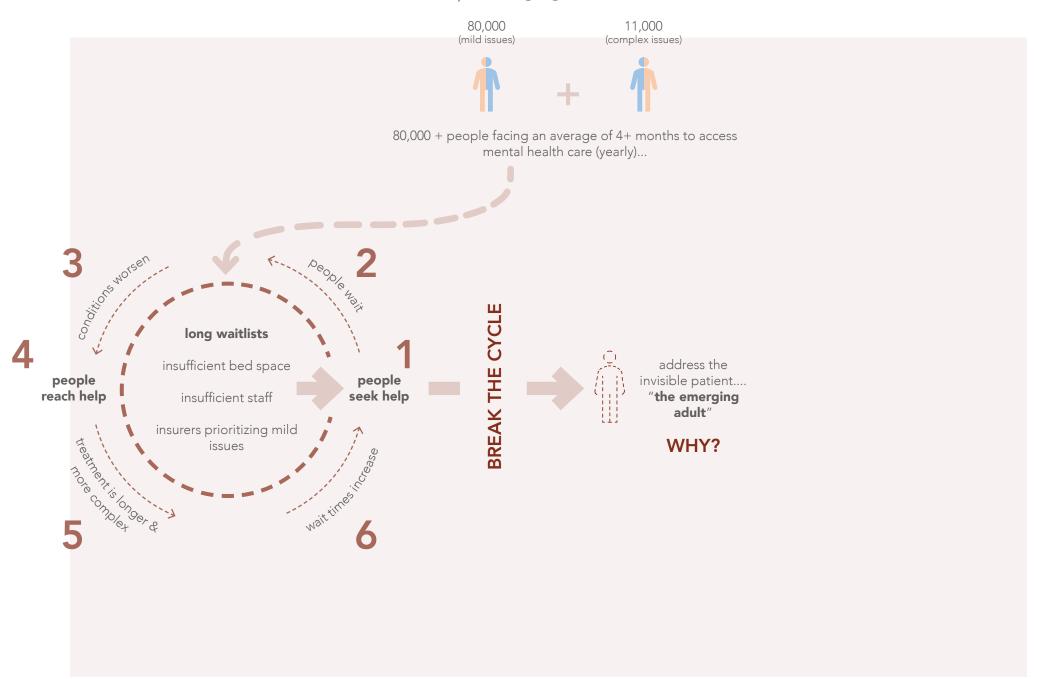


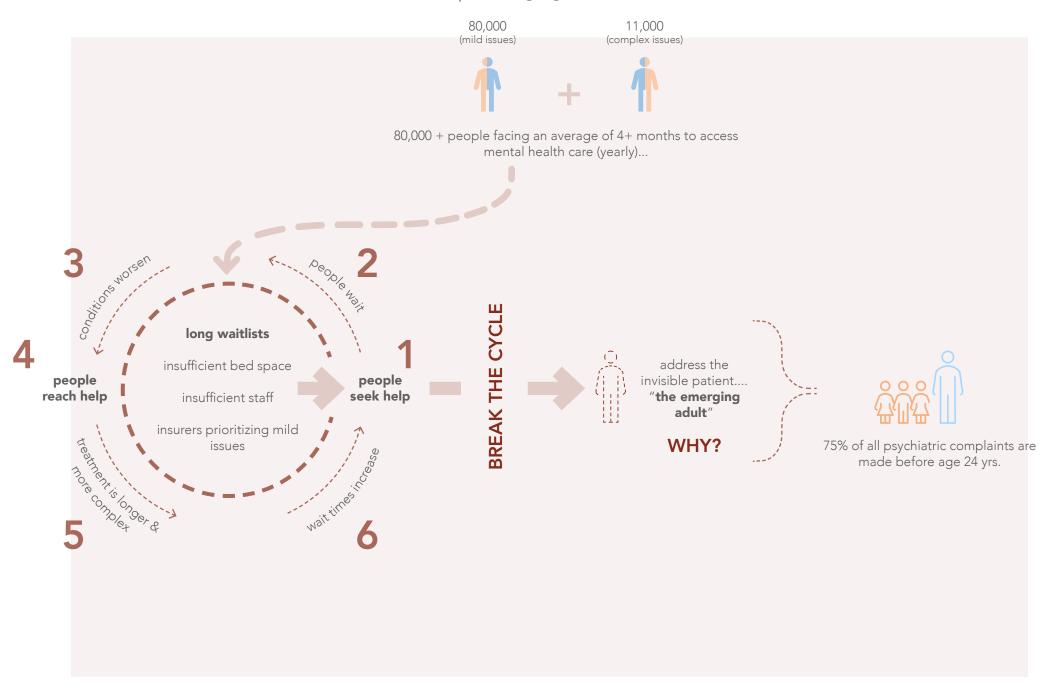
80,000 11,000 (complex issues)

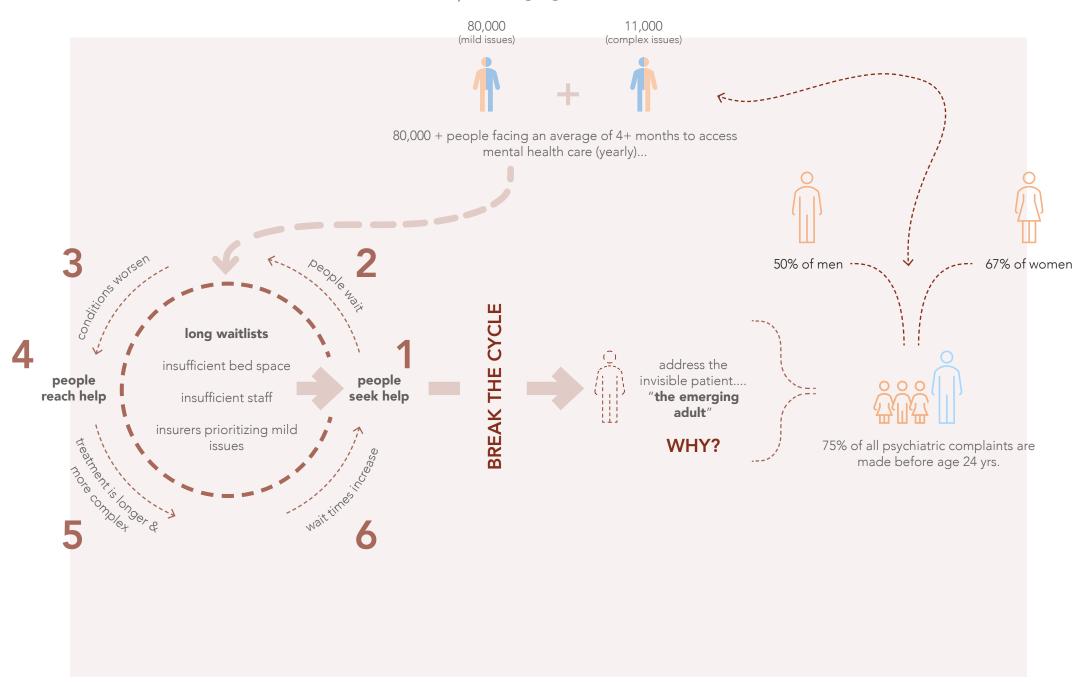
80,000 + people facing an average of 4+ months to access mental health care (yearly)...

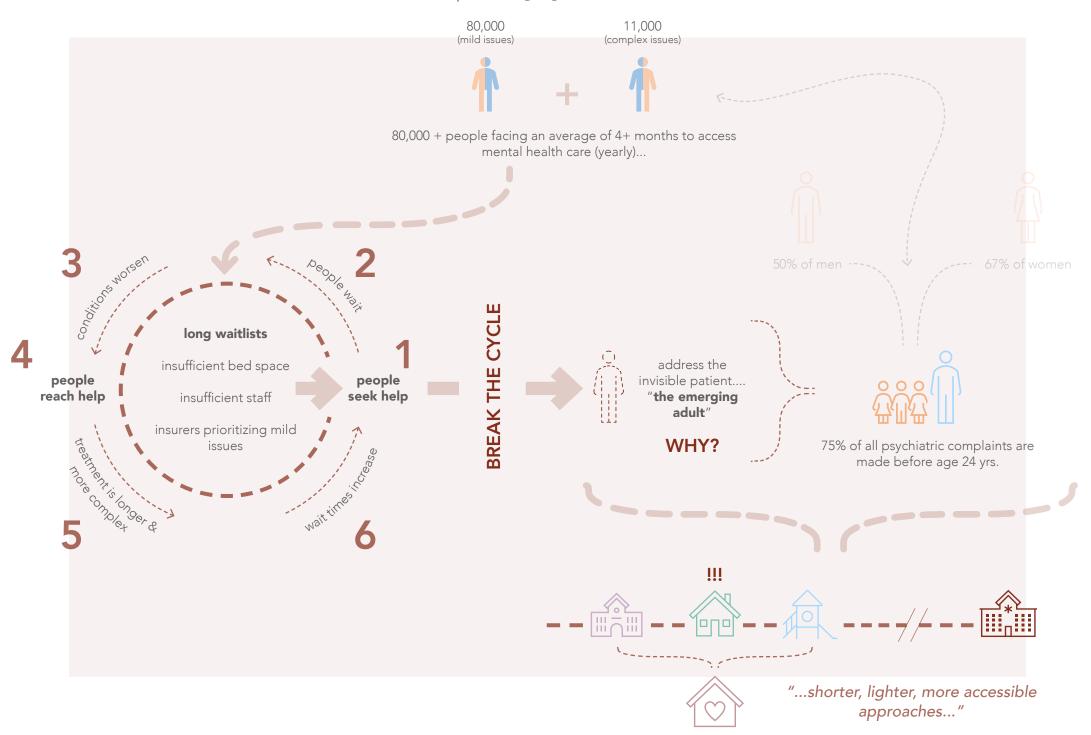




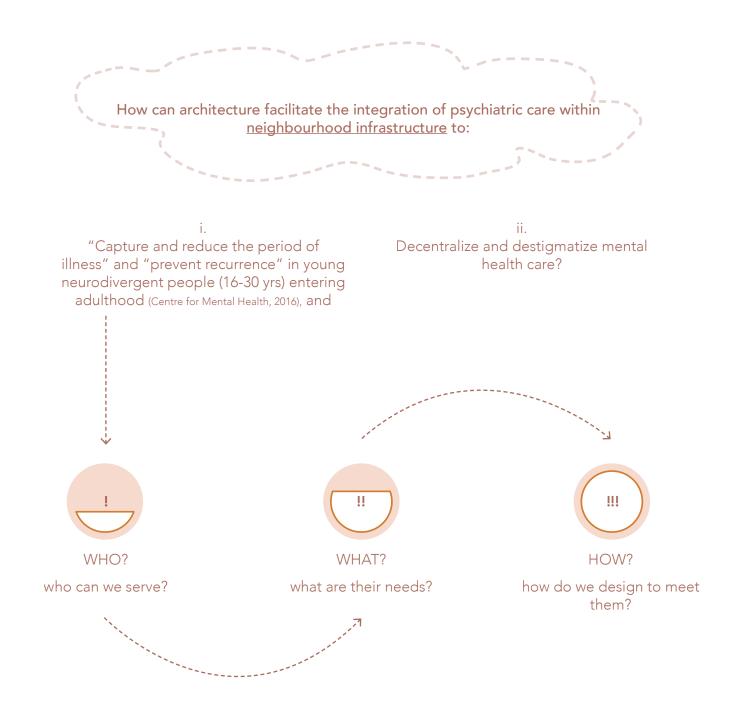














RESEARCH - GATHERED -

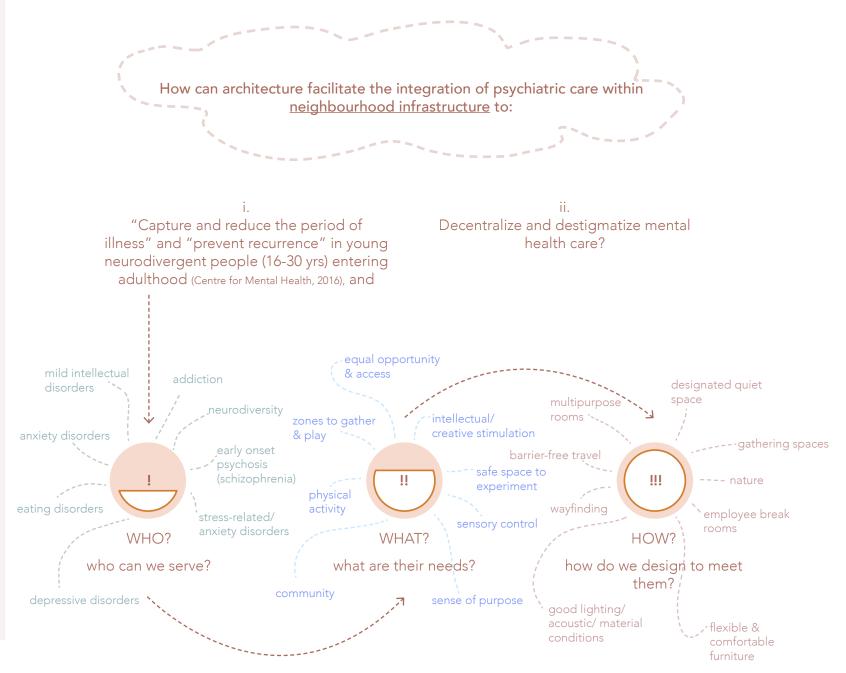
literature review

fieldwork observations

professional interviews

case studies

target-based questionnaires

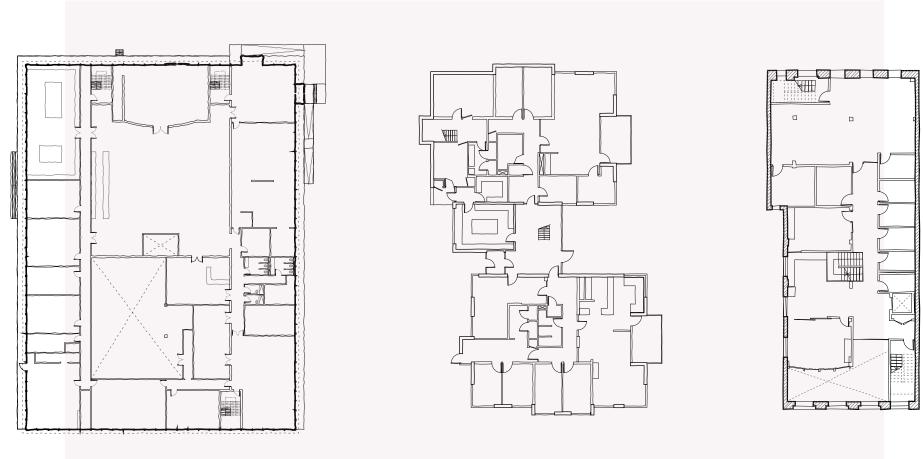








learning from case studies...



De Ruimte Dagactivieitcentrum, Delft, NL

(Ipse de Bruggen sheltered work center for persons with mild intellectual disabilities)

Taste! Cafe, Delft, NL

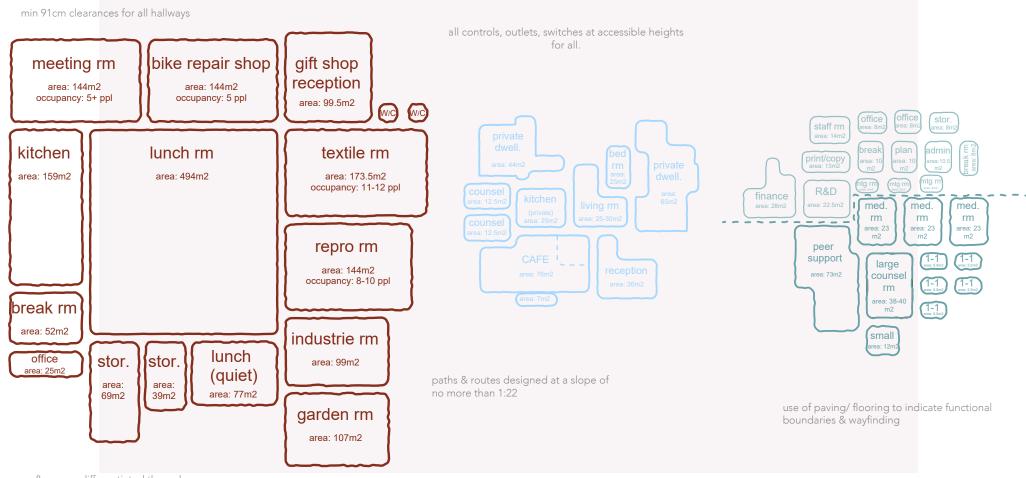
(Shared Christian community residence with weekly public programming)

Stella's Place, Toronto, Canada

(Charity-based urban mental health center)

learning from case studies...

paths of travel to consist of interior/exterior interchangeable conditions



zones & spaces differentiated through own unique characters.

consistent stairs (riser: 10-18cm, tread: 30-36")

office in a "OULET" corner control over light KITCHENETTE PUBLIC - PUBLIC - PUBLIC 8 "TRIAL" Med bound and high pustic - pustic - pustici minimizing "human" passage

. kitcherette access
@ every neuro divors
er tunctional space

kitchen access at all times

furniture as architecture

variety in comfortable seating

choice of private & public workspace

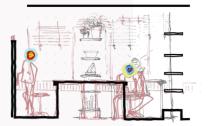
designated storage

generous pathways

clear & flexible spatial arrangement

traffic

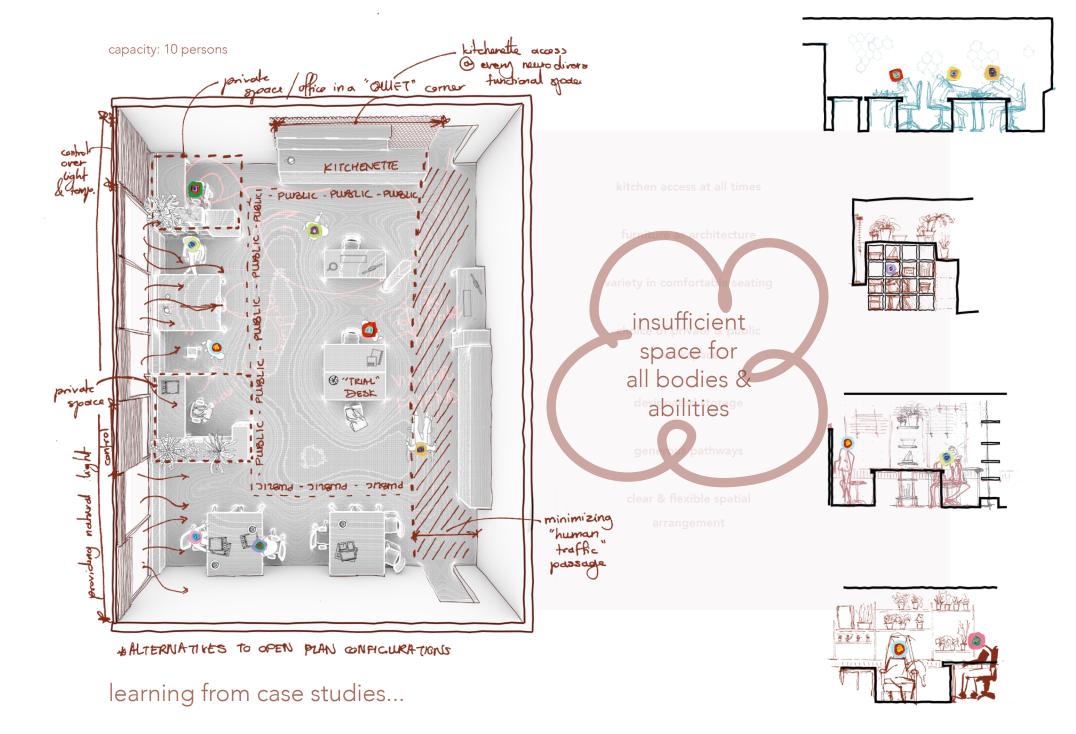


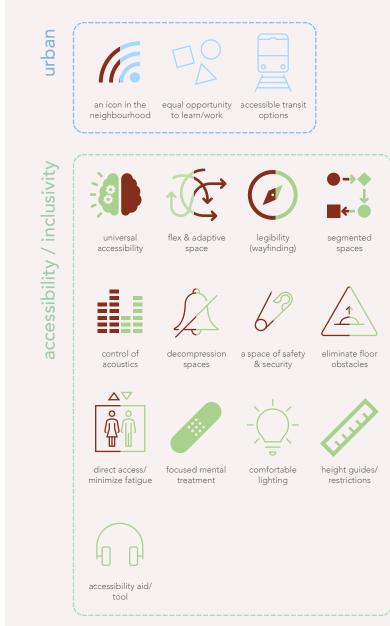


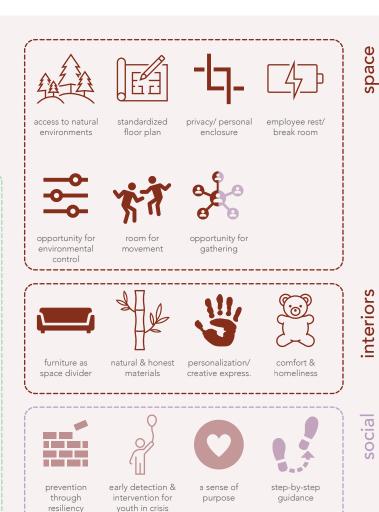


ALTERNATIVES TO OPEN PLAN CONFIGURATIONS

learning from case studies...



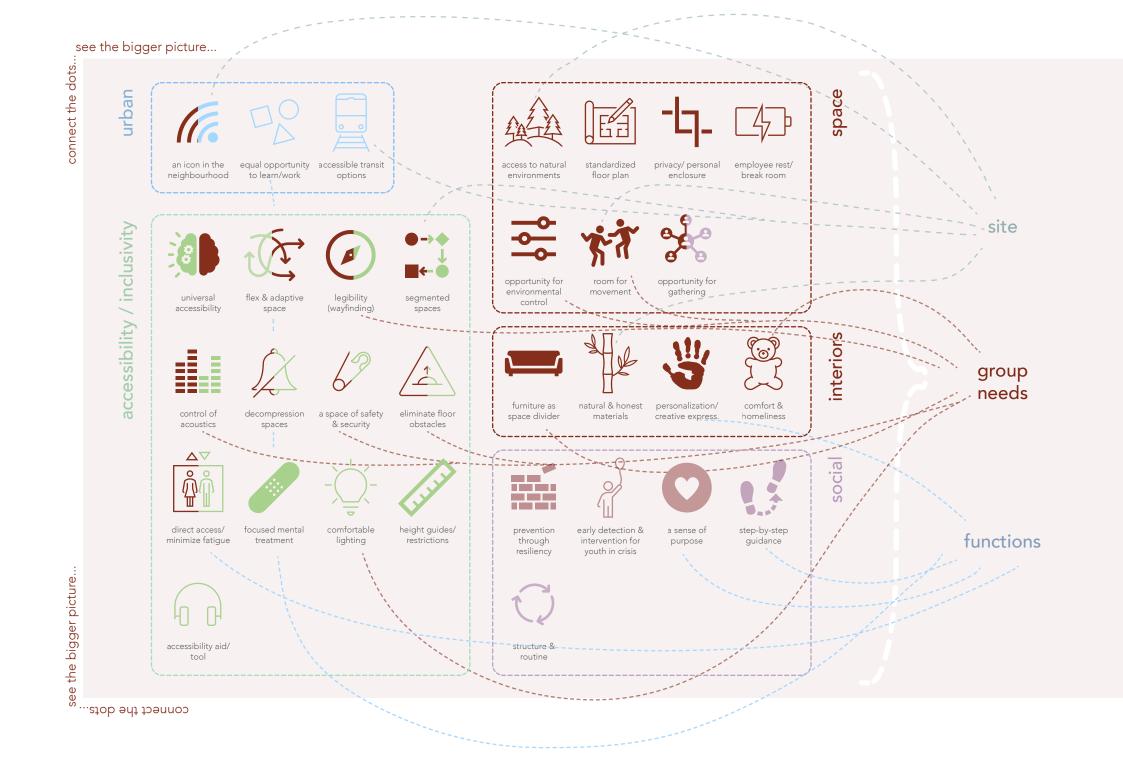


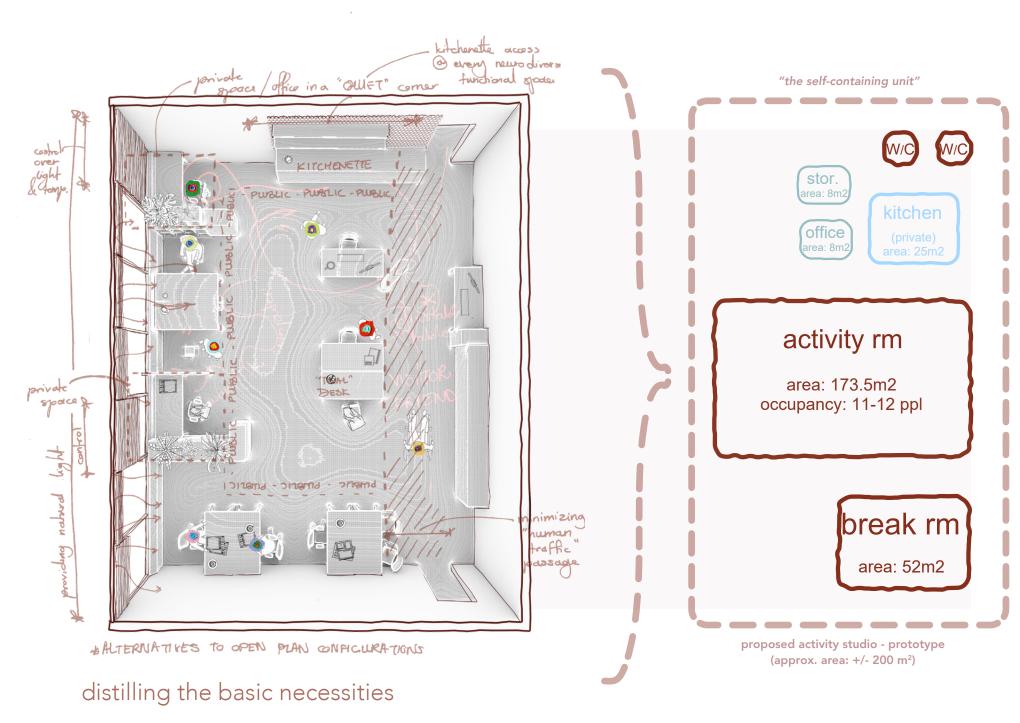


structure &

routine

site group needs functions







natural & hone



decompression



access to natural



standardized



furniture as



comfort &



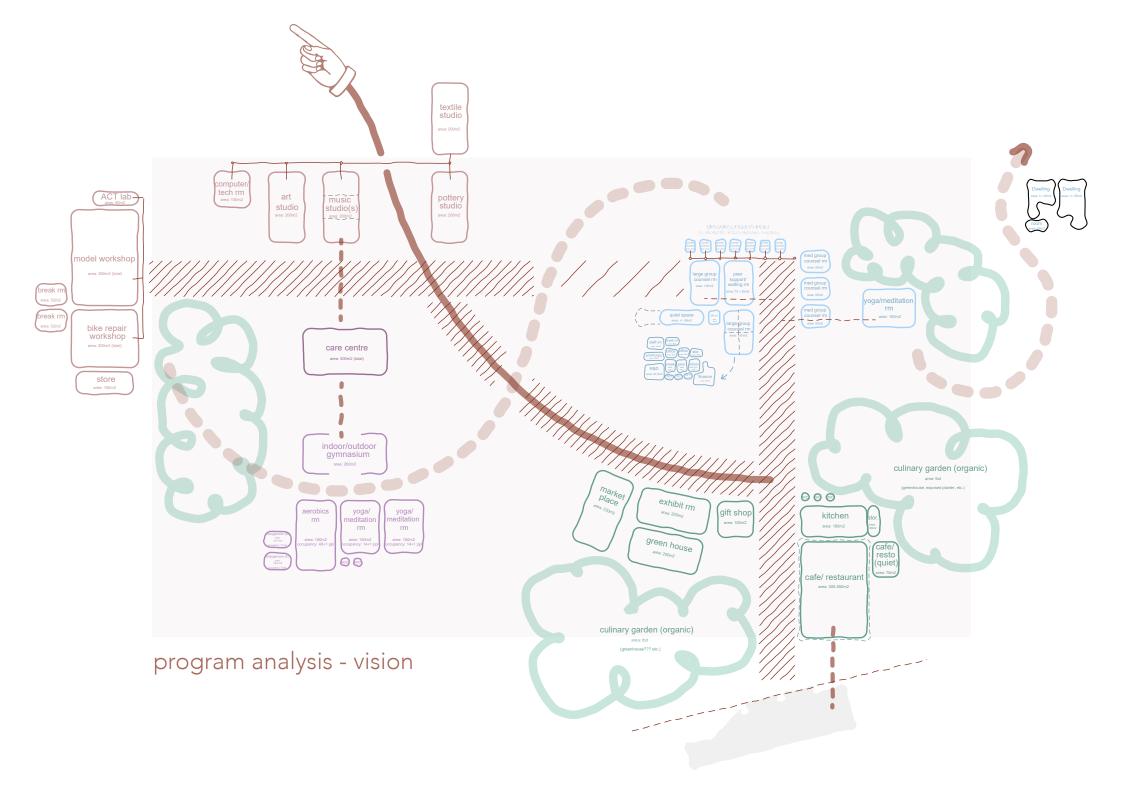
room for

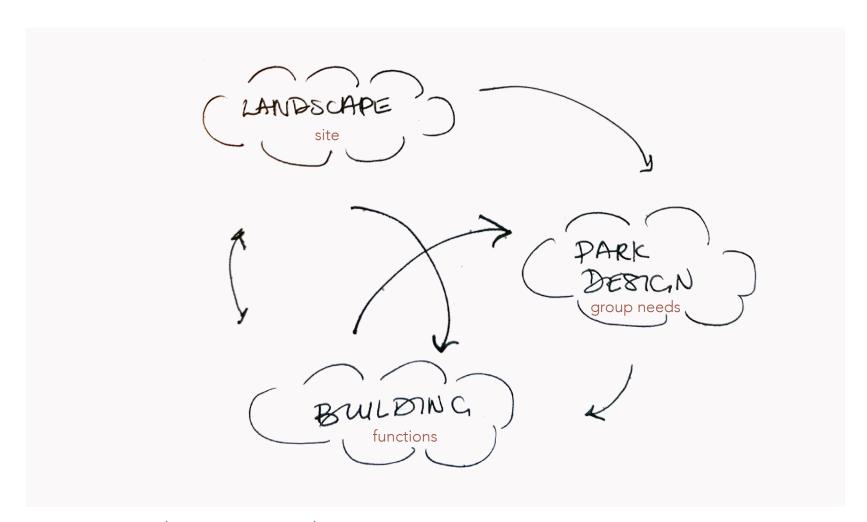


universal accessibility

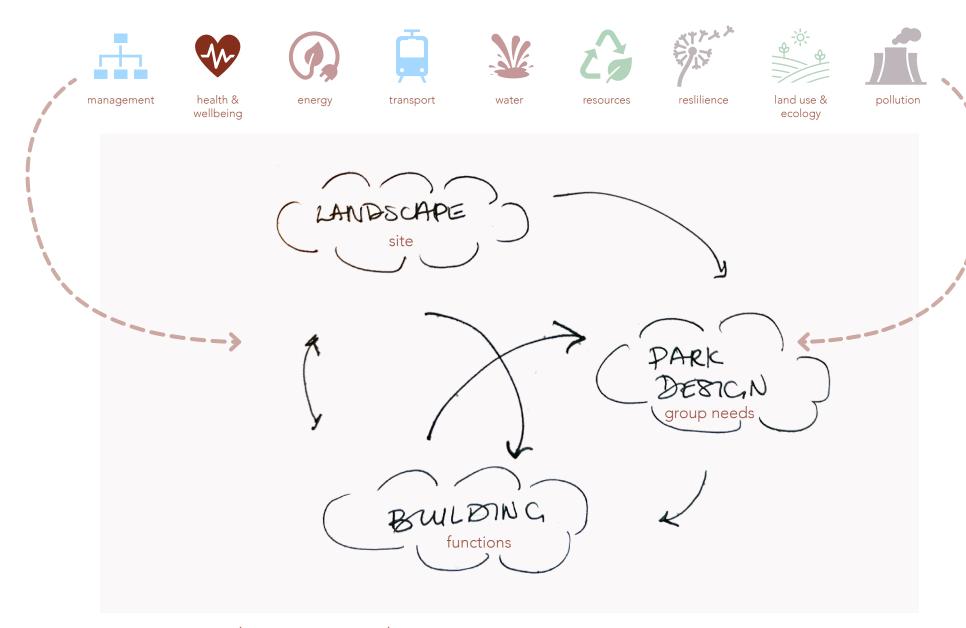


flex & adaptive space

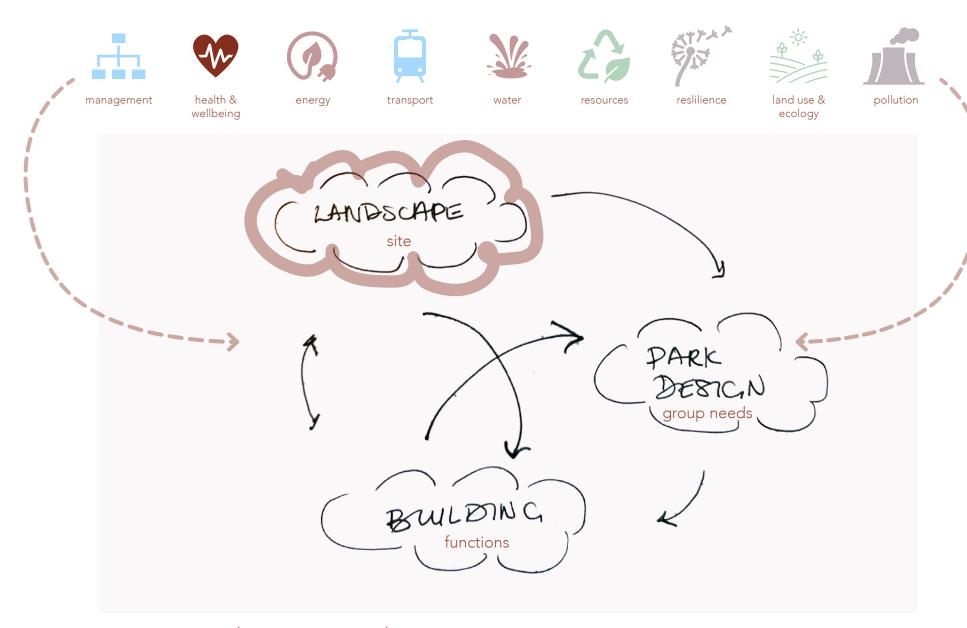




program analysis - practicalities



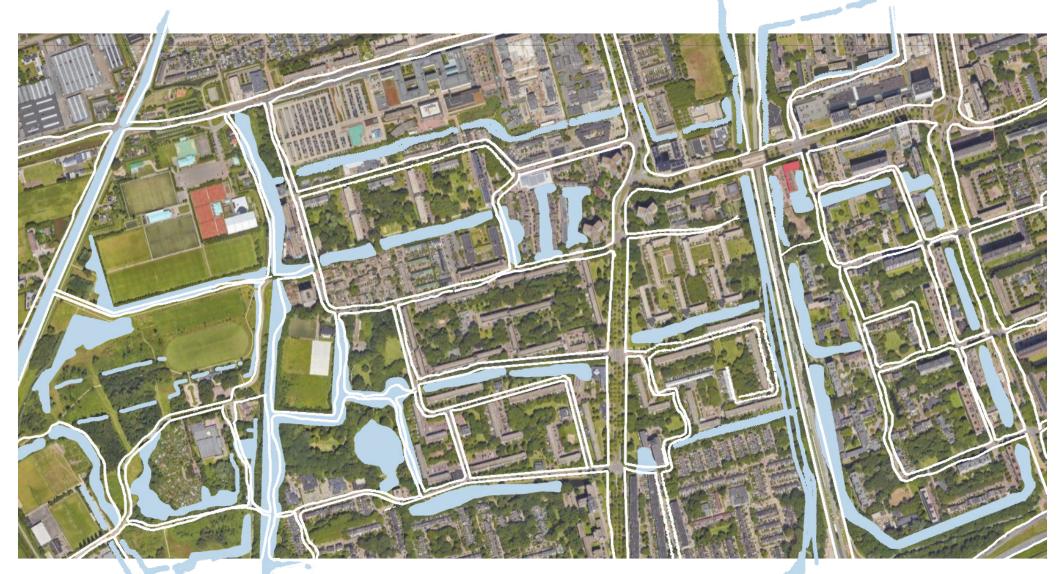
program analysis - practicalities



program analysis - practicalities

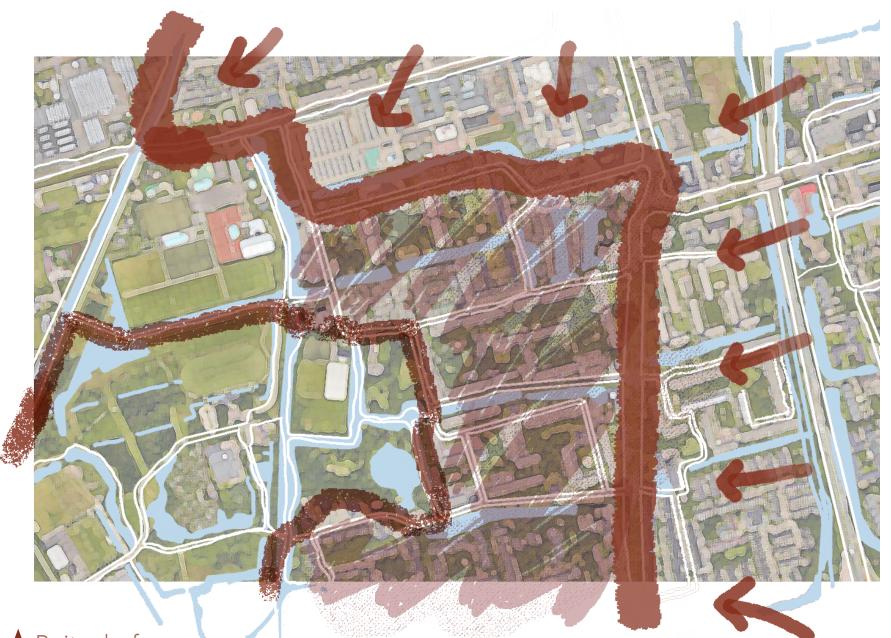












Site Criteria:

Low income communities present a higer risk of mental health issues

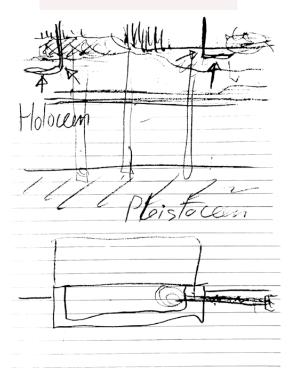
Communities with high populations of highvulnerability persons.

Areas facing a lack of access to social and welfare support services.

Access to and/or direct views of nature.

Areas that are accessible but isolated enough to avoid over-stimulation



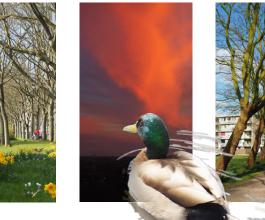




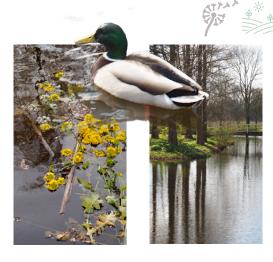








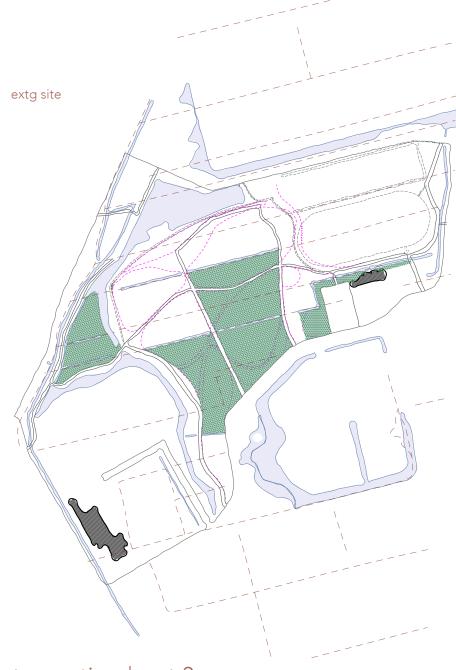


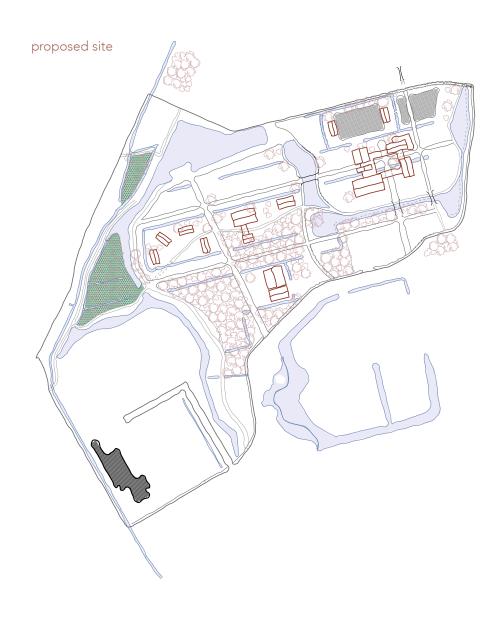










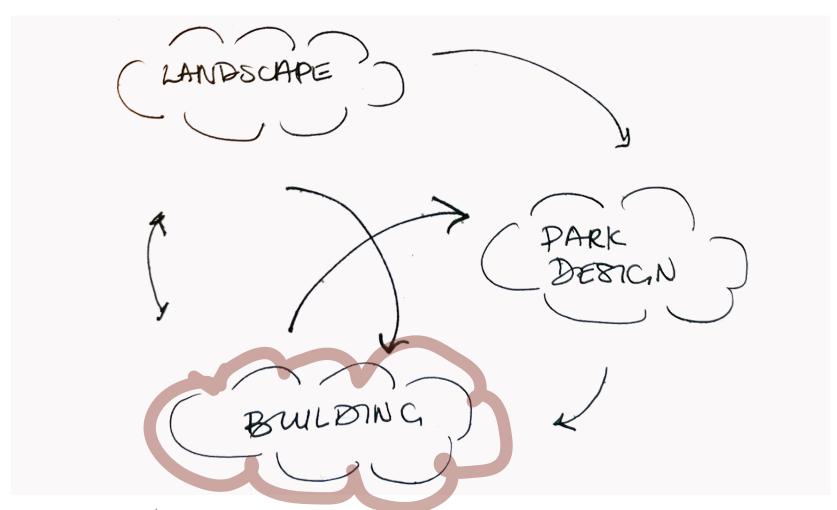




Buitenhof Parkje (114,236 m 2 = 28.22 acres = 11.42 hectares) (54,873 m 2 = 13.56 acres = 5.487 hectares)

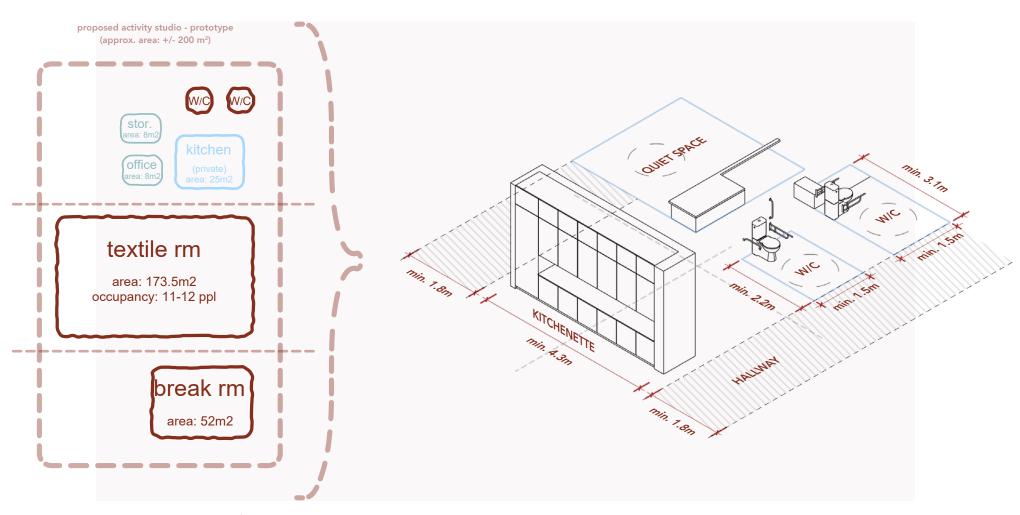


Intervention | opt 3 - Schematic Design



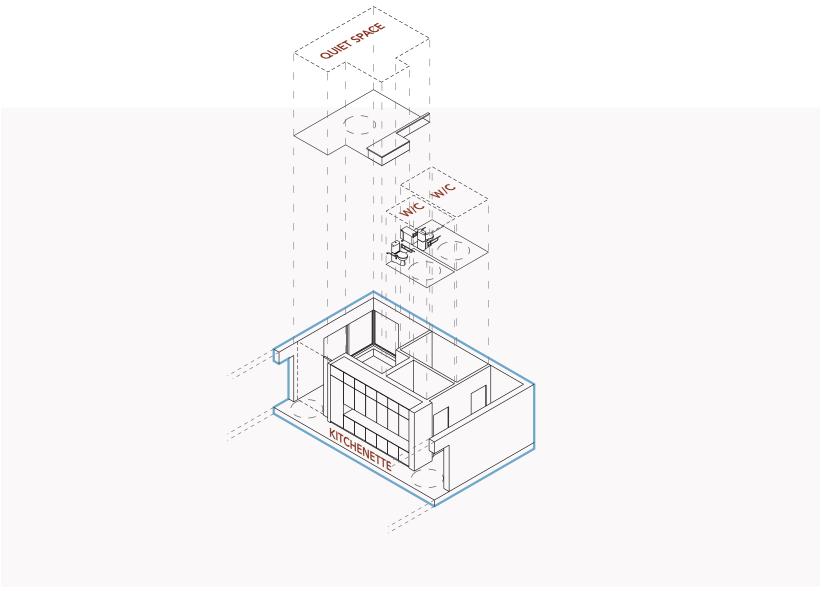
program to plan





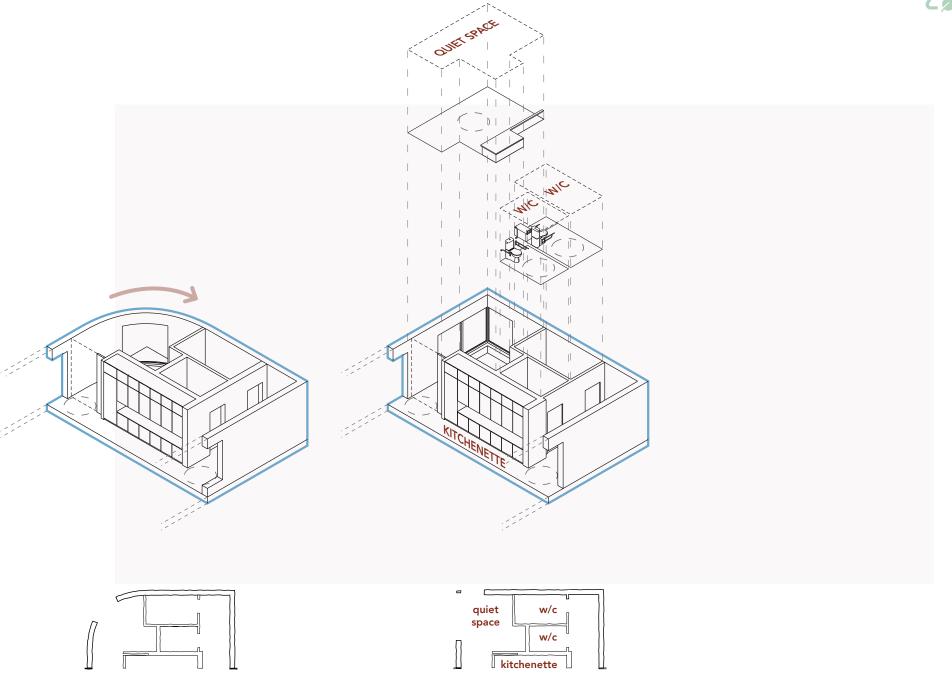
program to plan



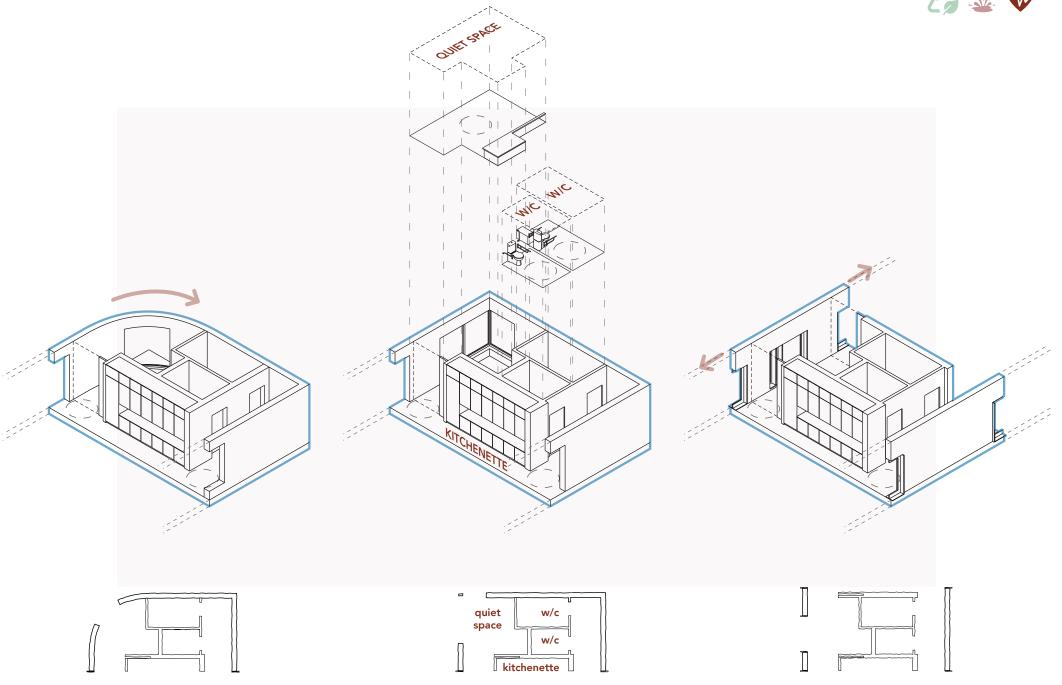


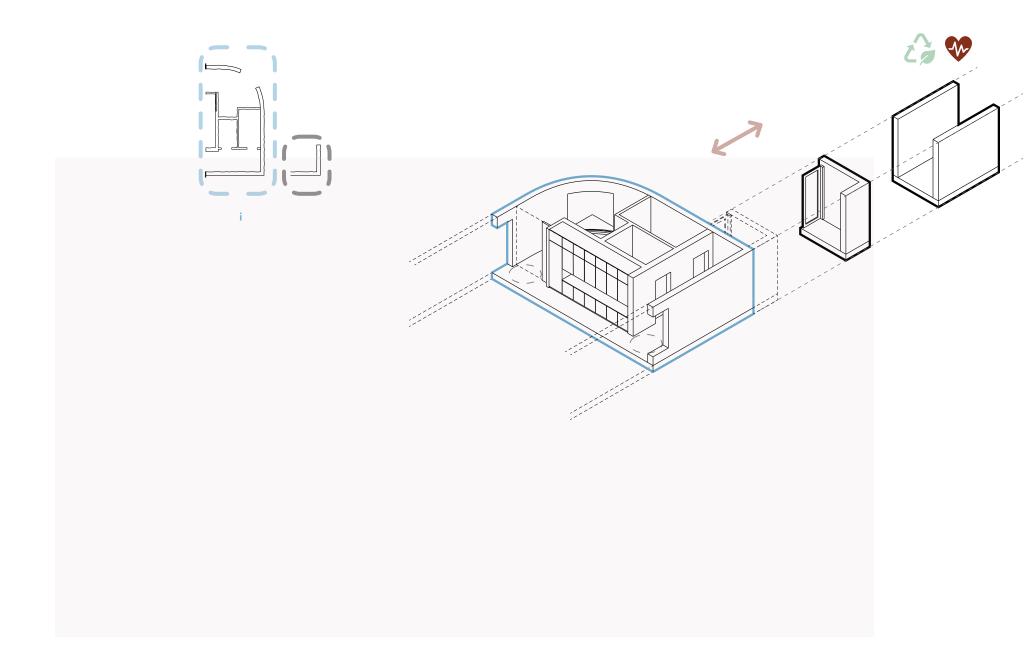


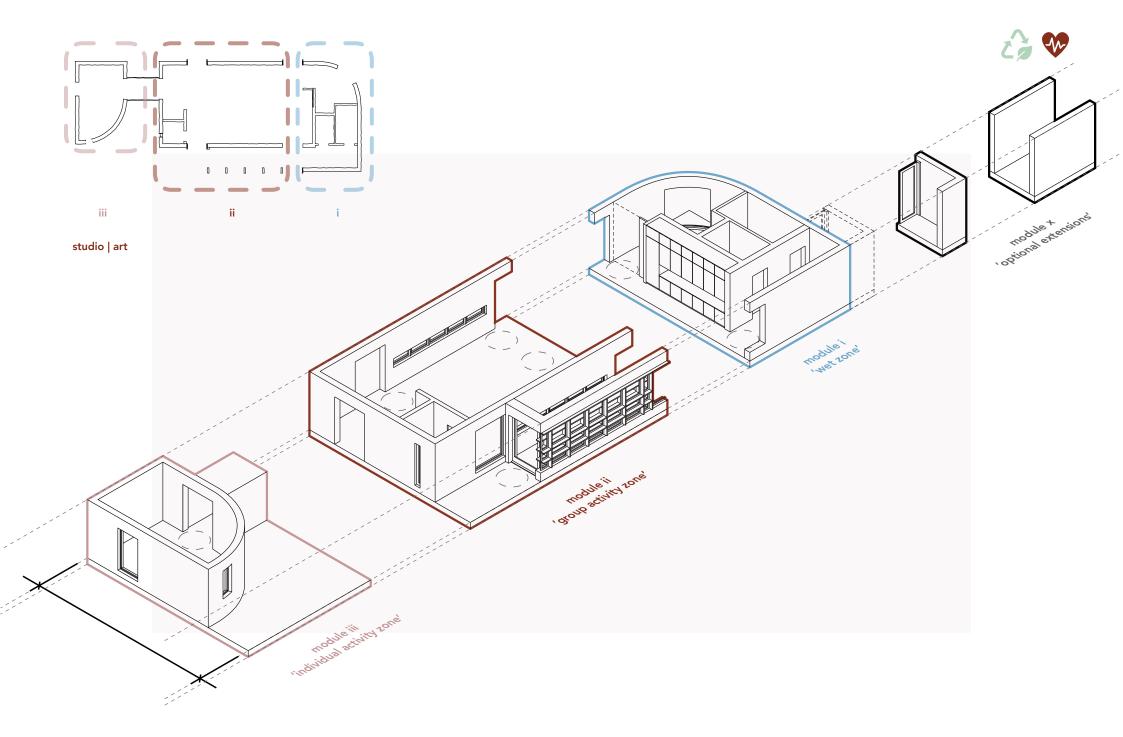


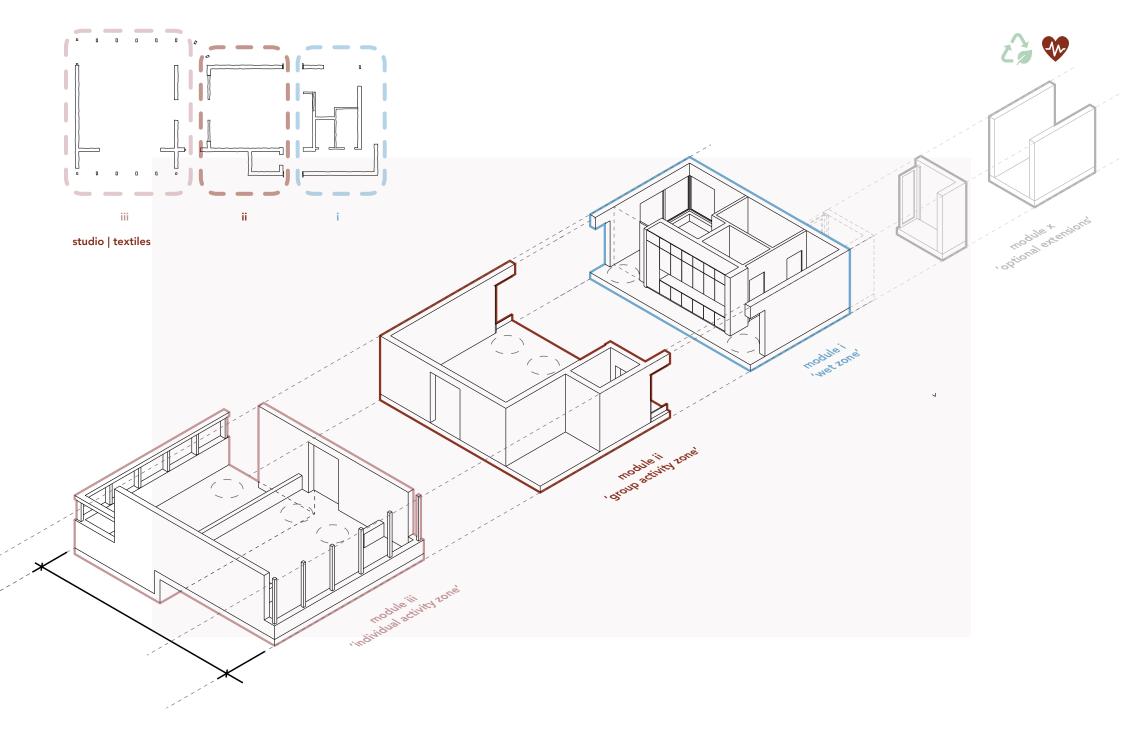


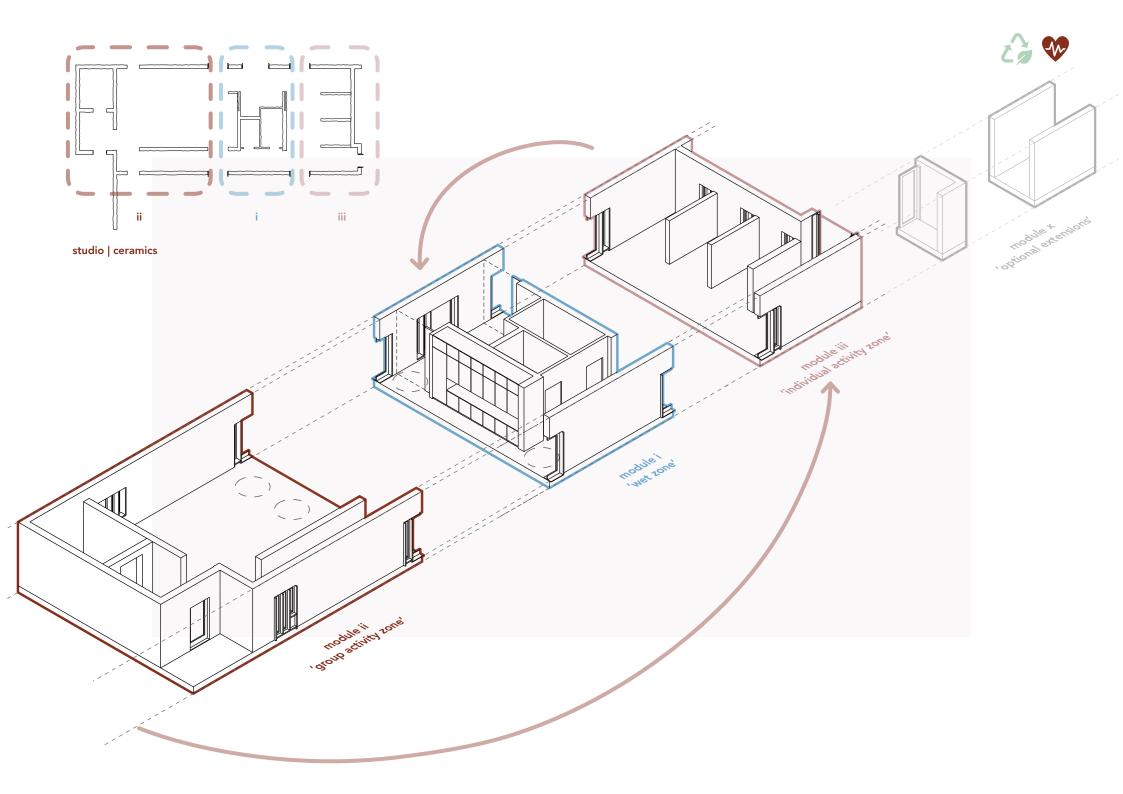




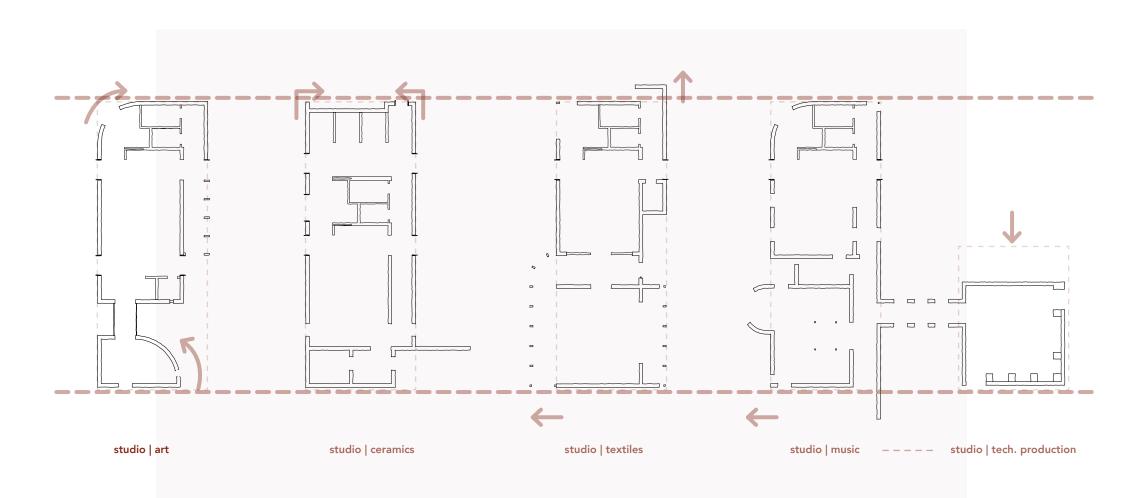






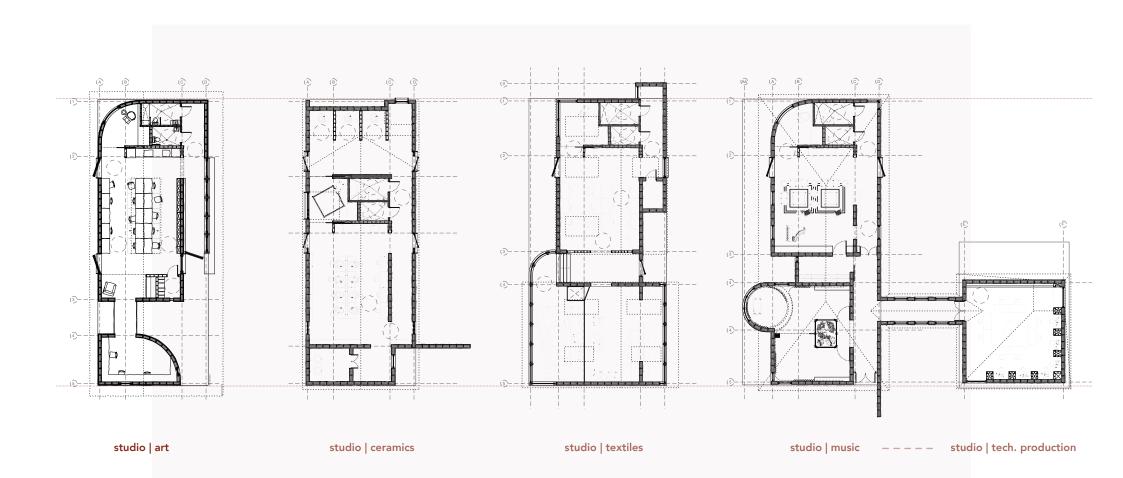






plans | variations within the rules









module iii | 'group activity'

module ii | 'individual activity'







module ii | 'individual activity'









railings & supports



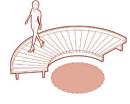
lift accessories



bench seating



built-in seating



level paths of travel



comfortable slopes



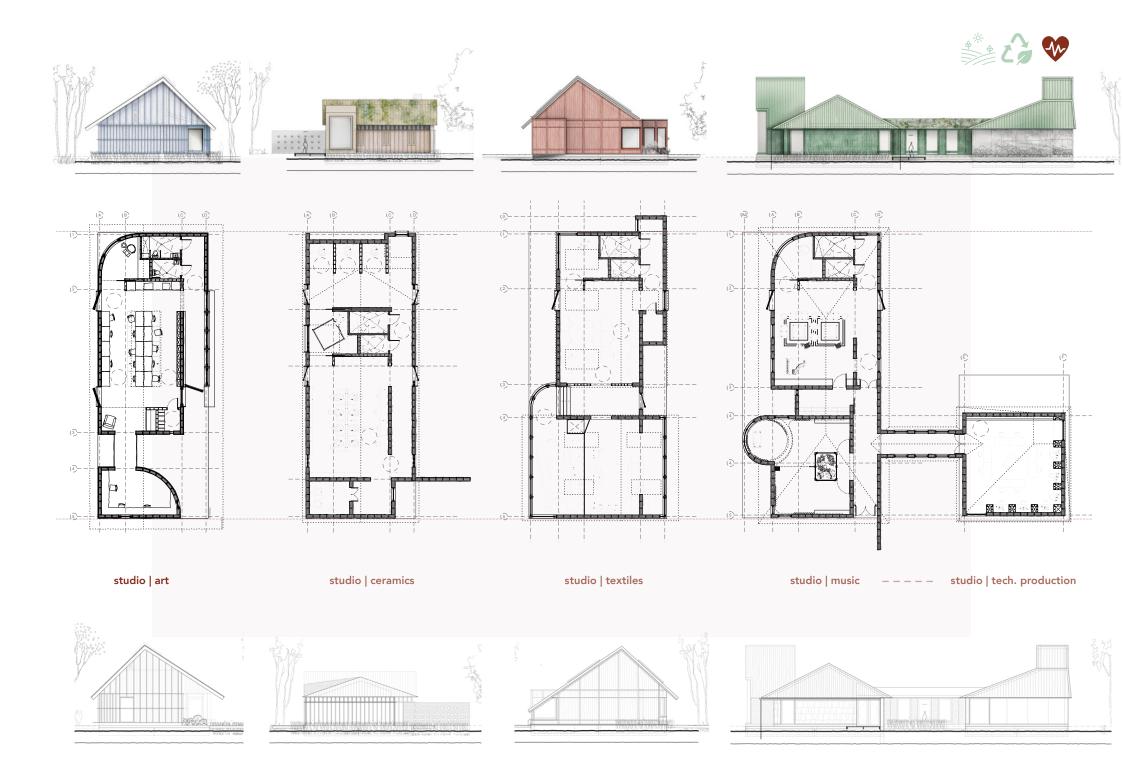
wayfinding



personalized storage



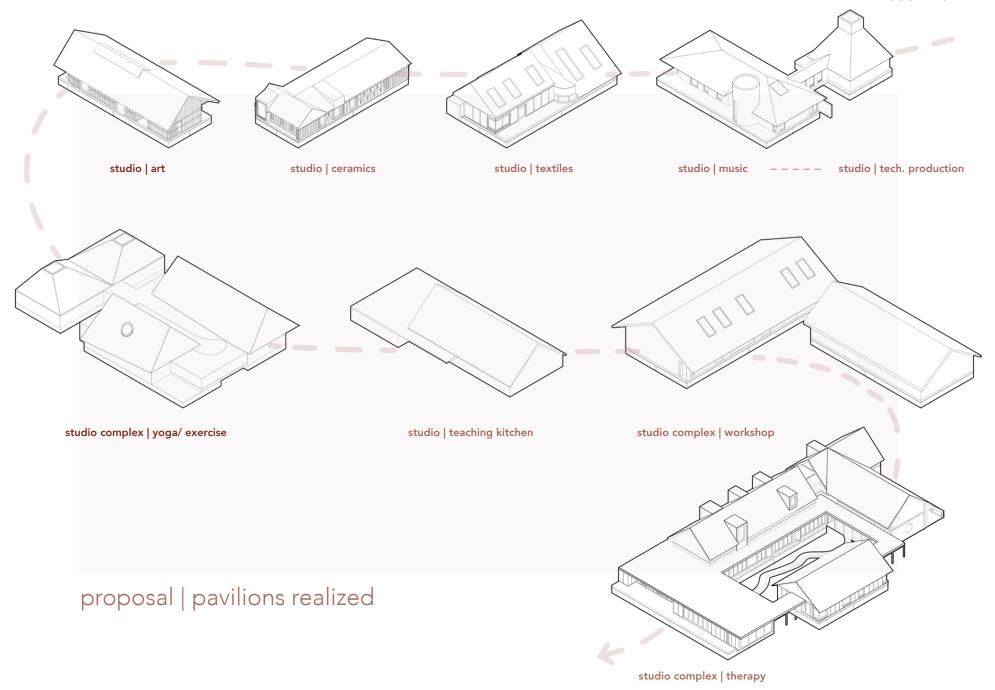
comfort accessories









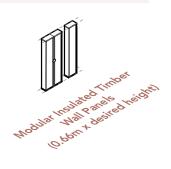




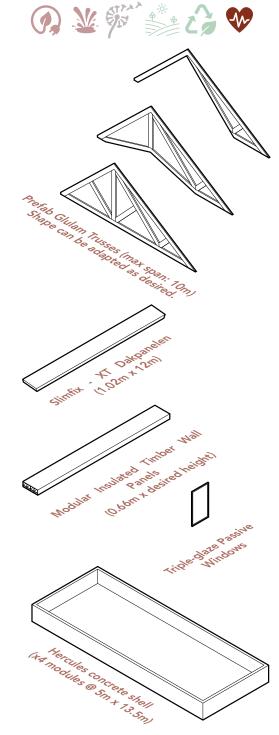
KIT OF PARTS

material selection criteria:

- modular units
- prefabricated units
- demountable & dry connections
- recyclable materials
- circular materials
- aligned to passive standards
- manageable sizes for rapid construction & delivery





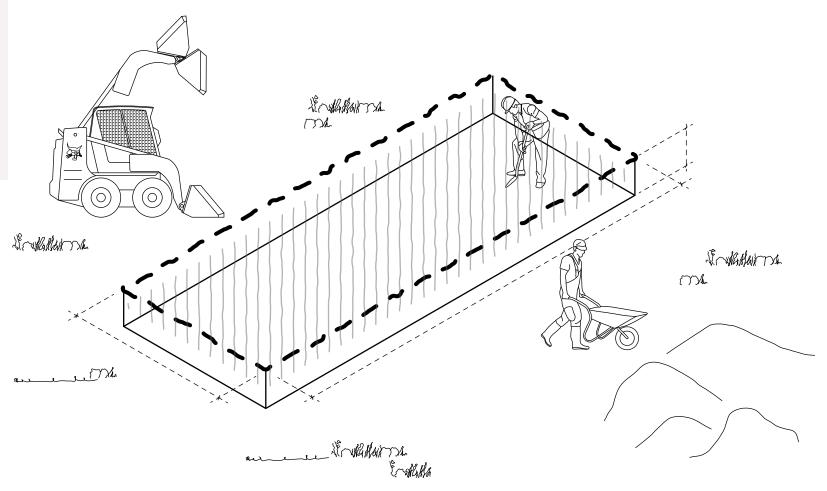




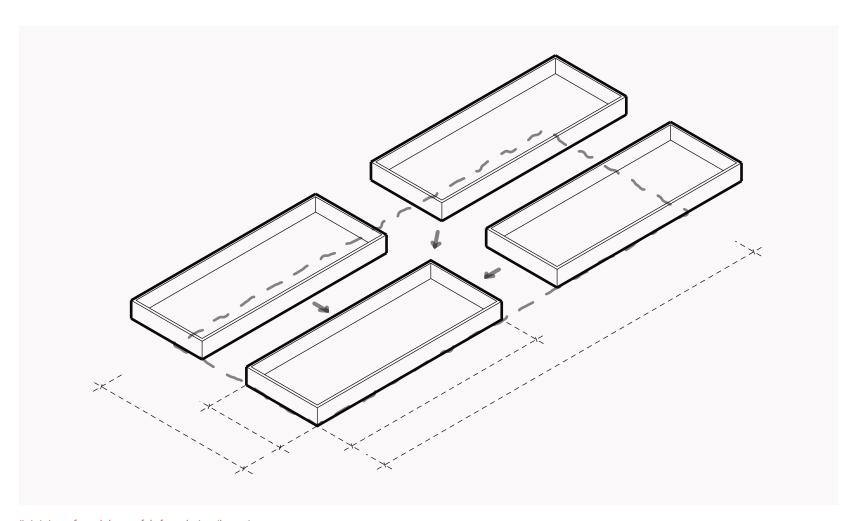


ASSEMBLY OF PARTS

i. localized site excavation

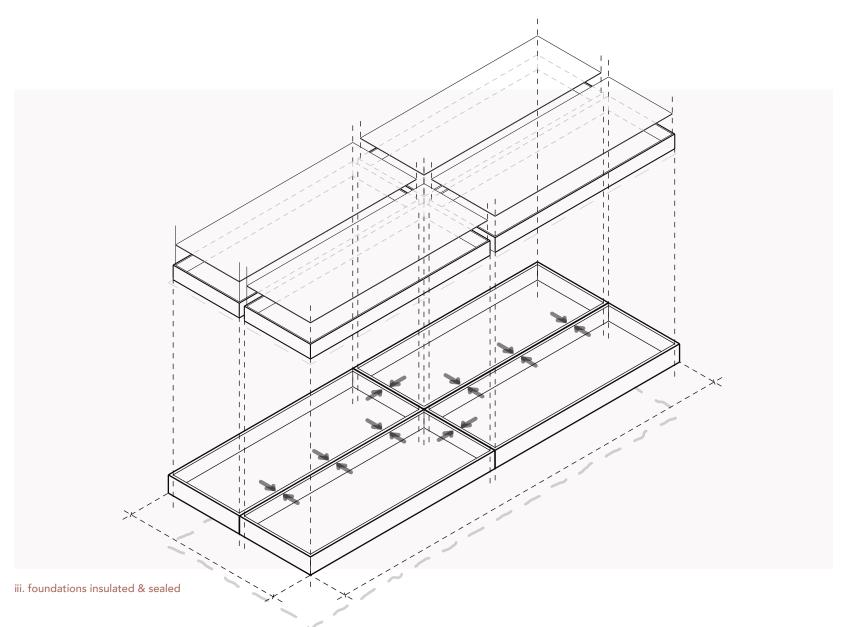




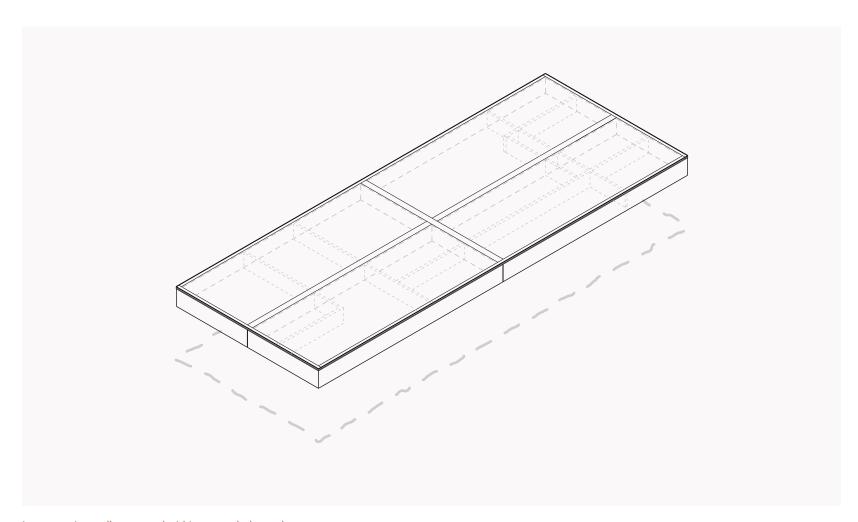


ii. joining of modular prefab foundation 'boats'



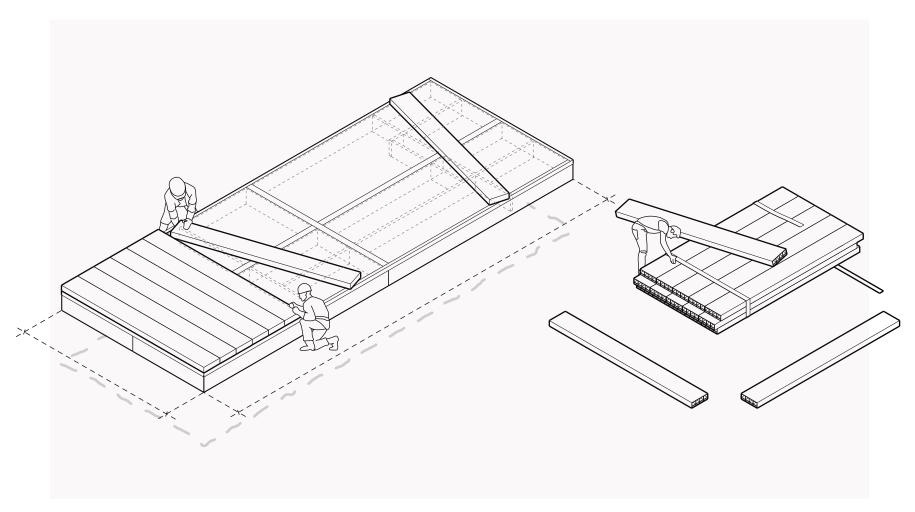






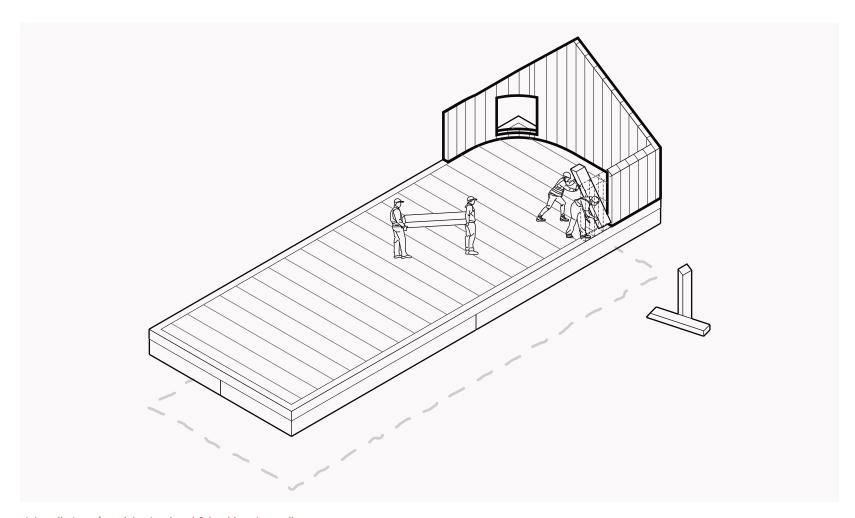
iv. supporting walls arranged within as needed per plan





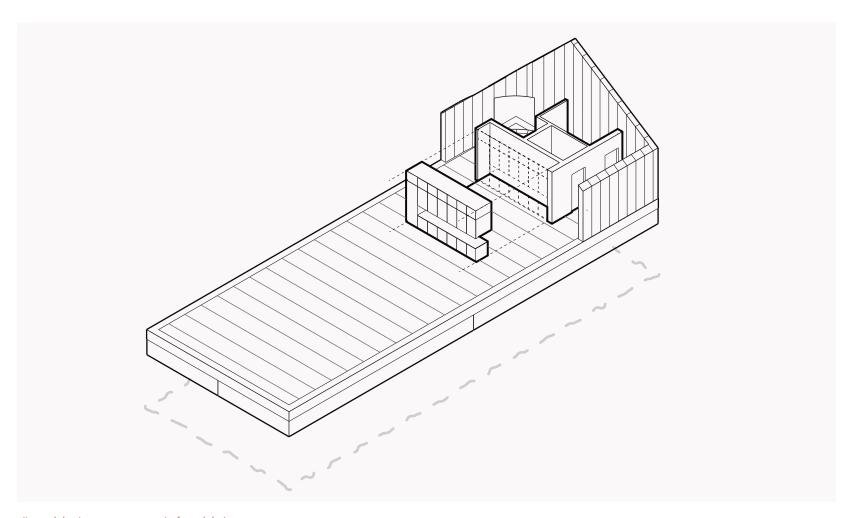
v. installation of structural & insulated floor modules





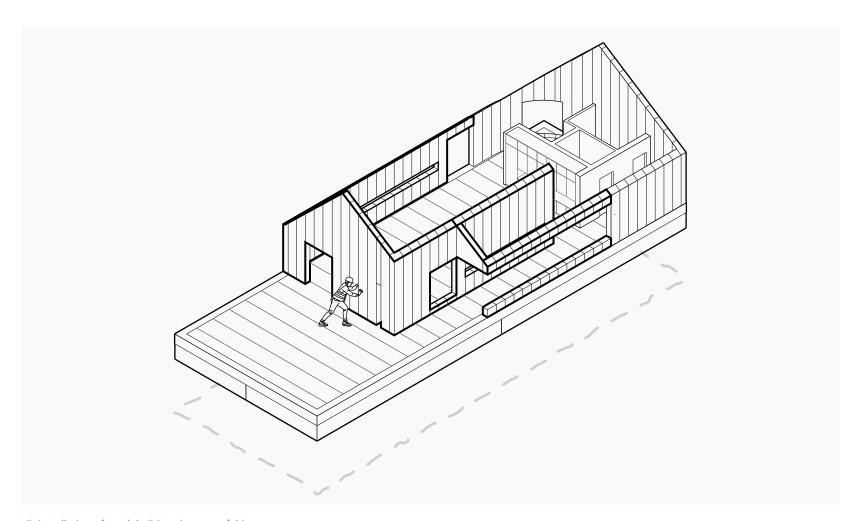
vi. installation of modular, insulated & load-bearing wall system





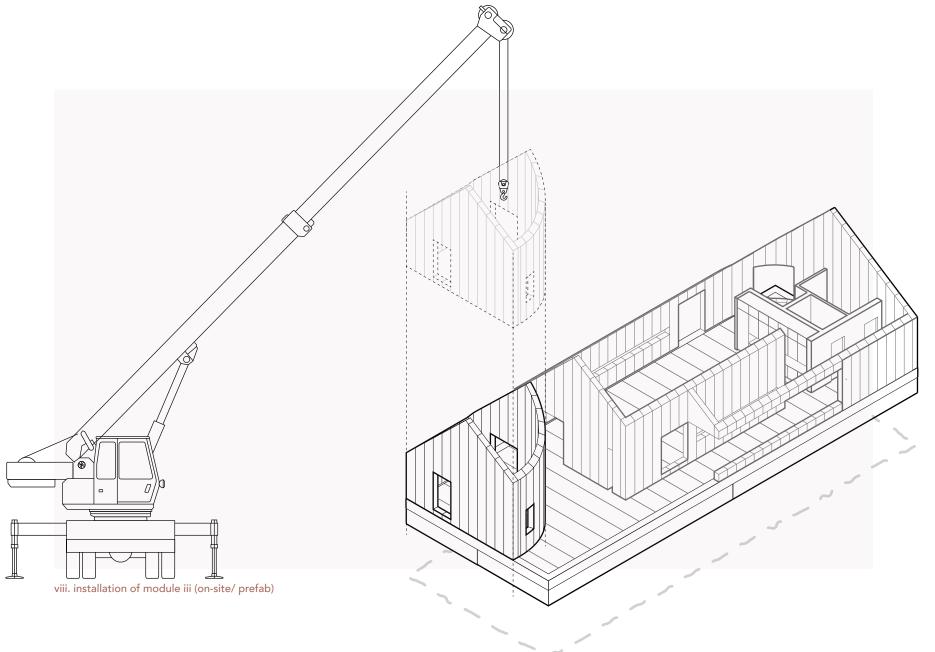
vii. modular 'wet components' of module i



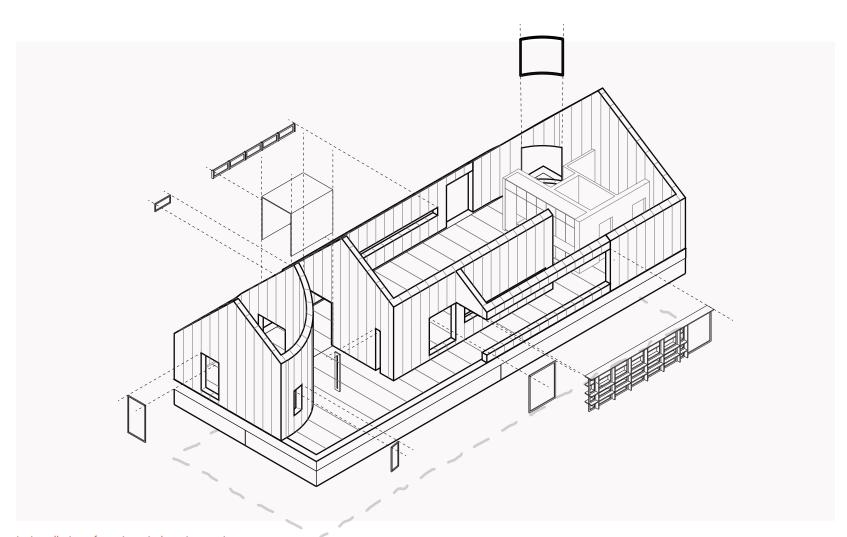


vii. installation of module ii (on-site or prefab)

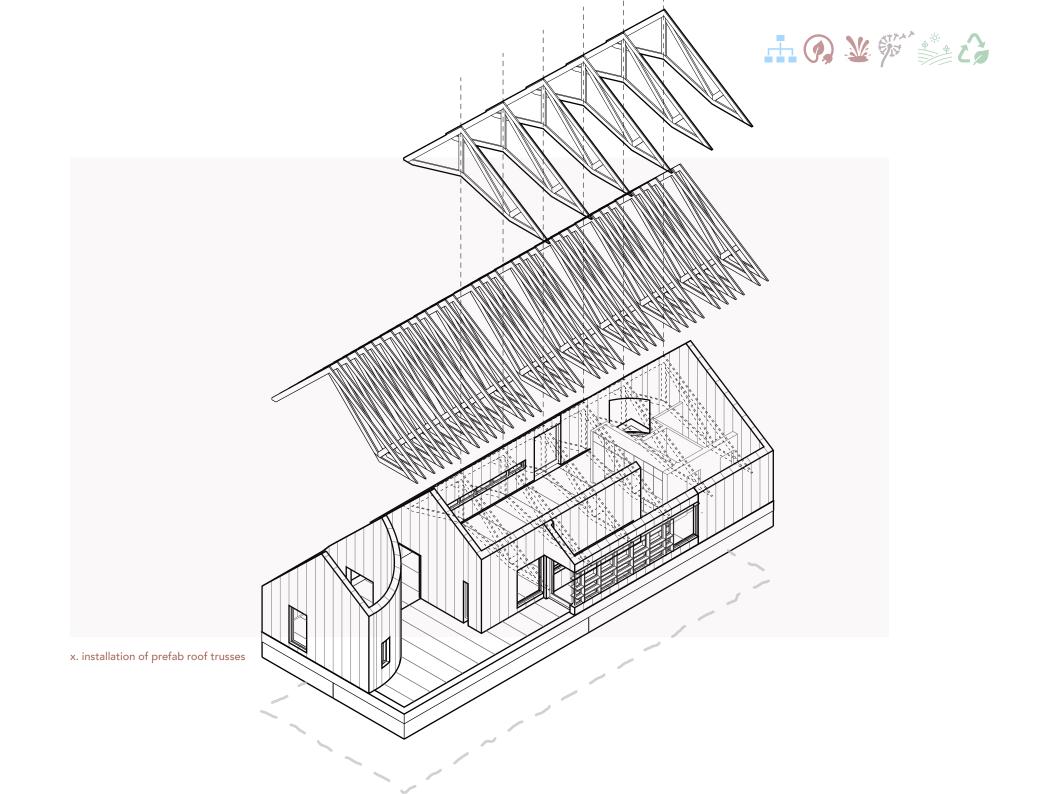




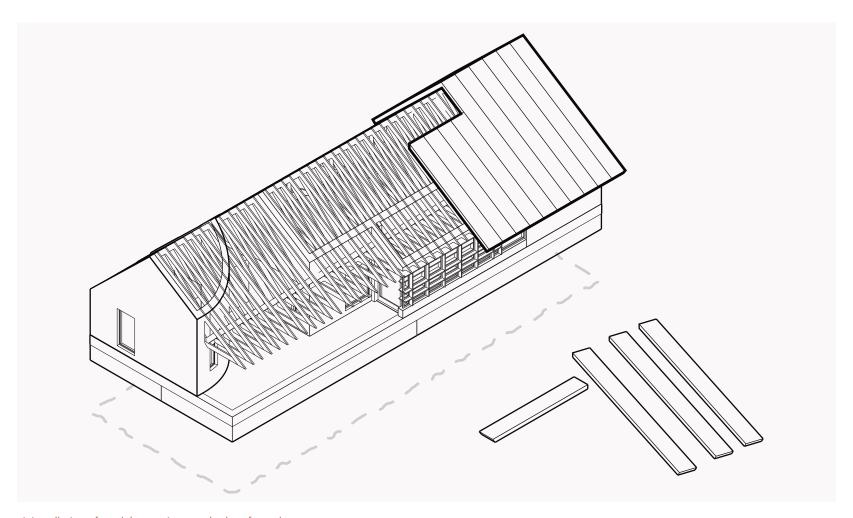




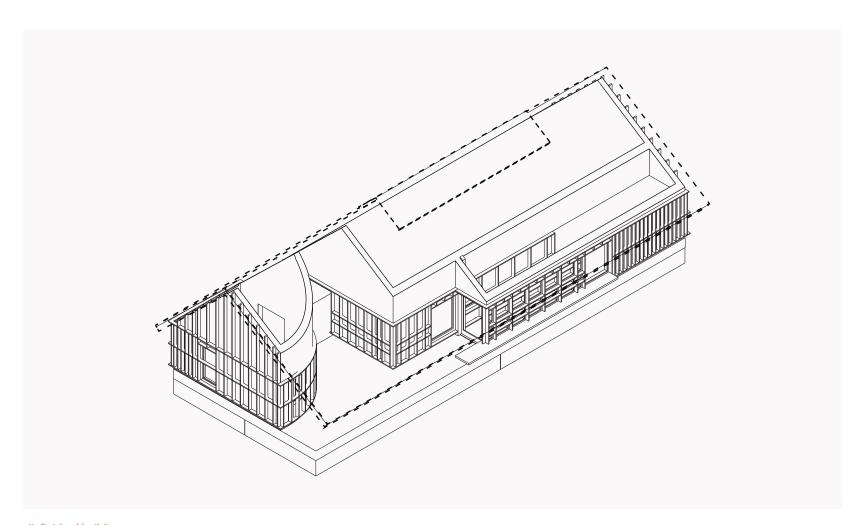
ix. installation of passive windows in openings



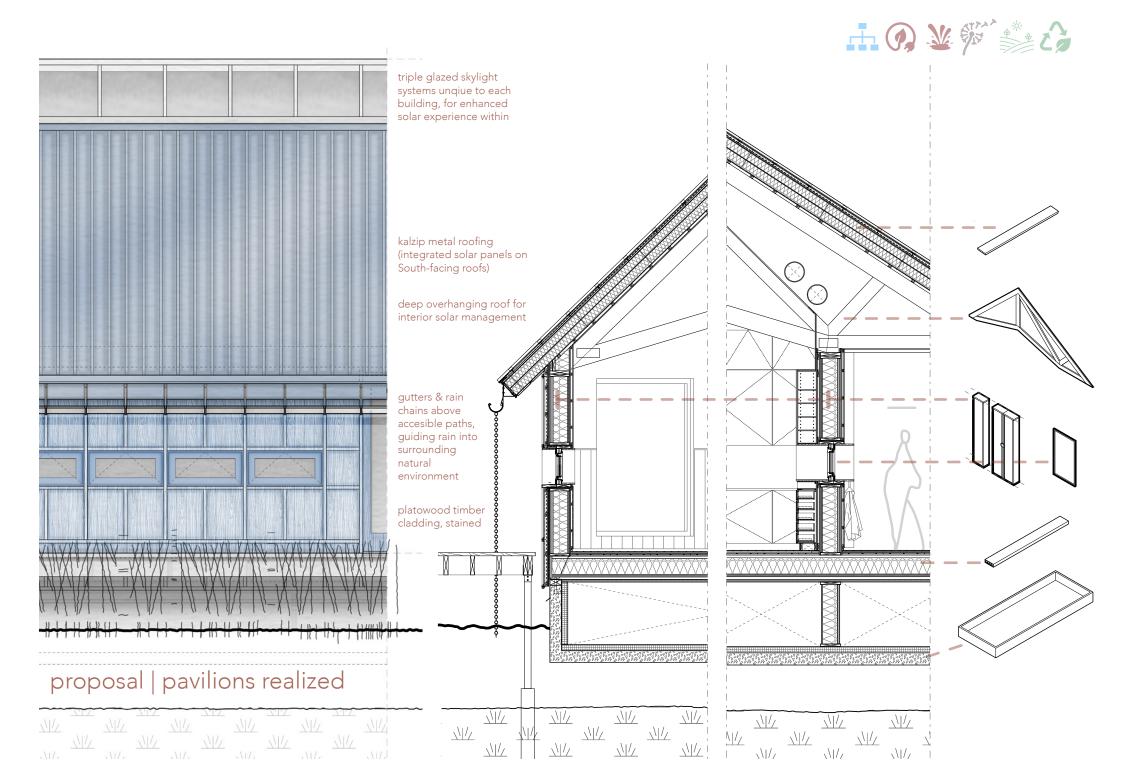




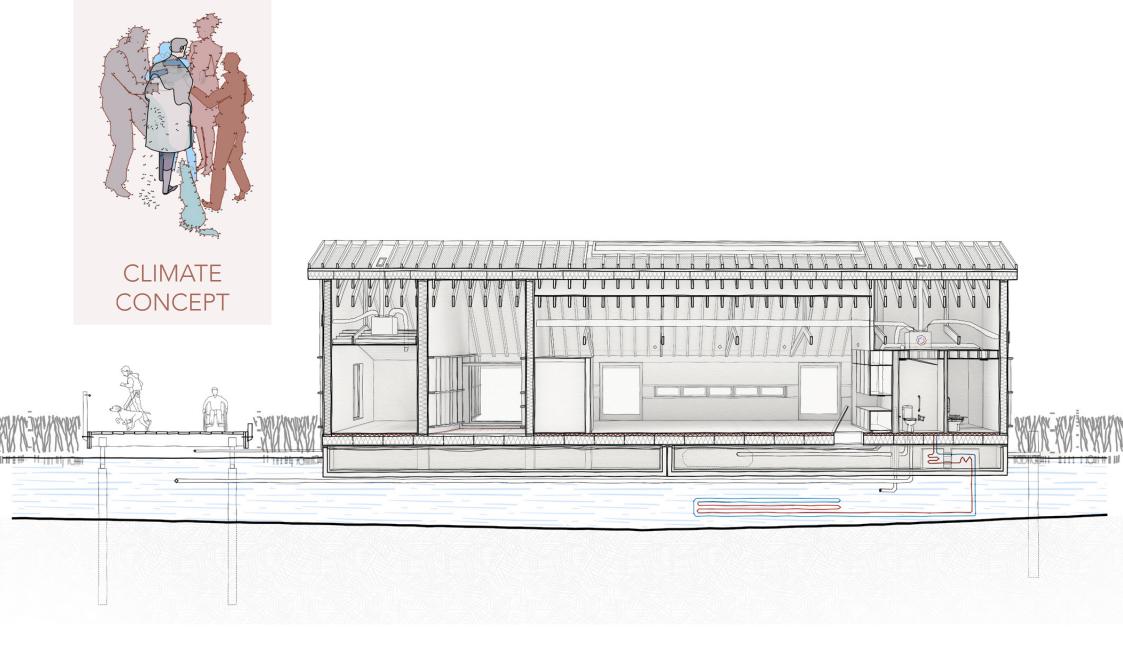
xi. installation of modular passive standard roof panels



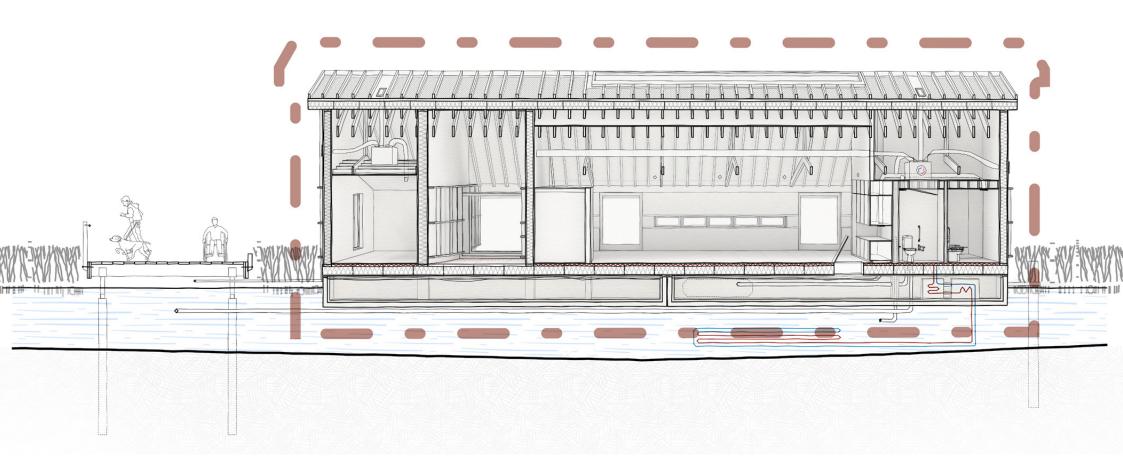
xii. finished building





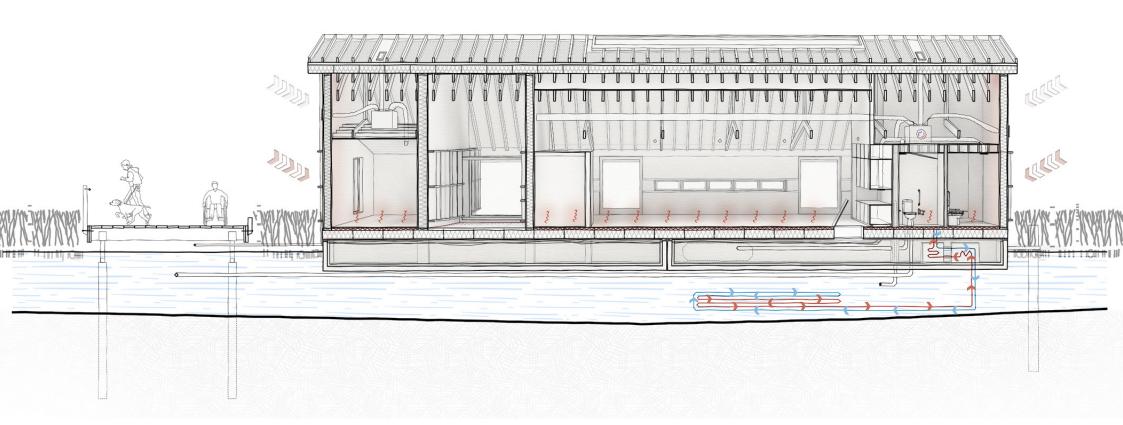






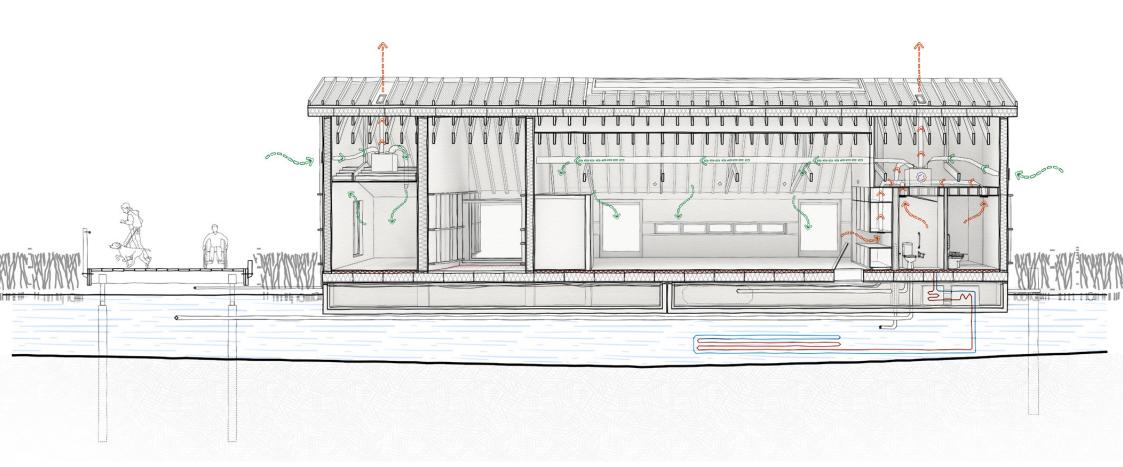
i. airtight passive house construction





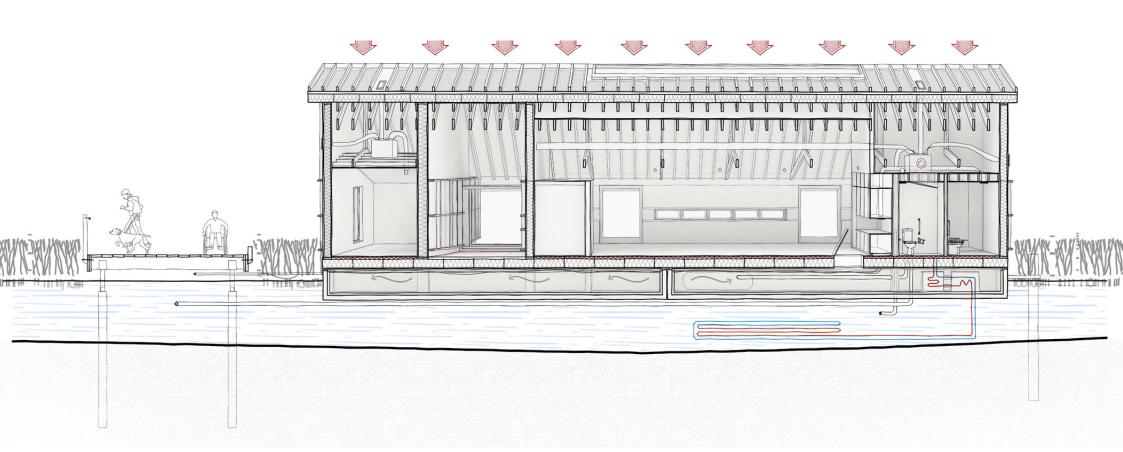
ii. water-to-water hydronic low-temp in floor heating



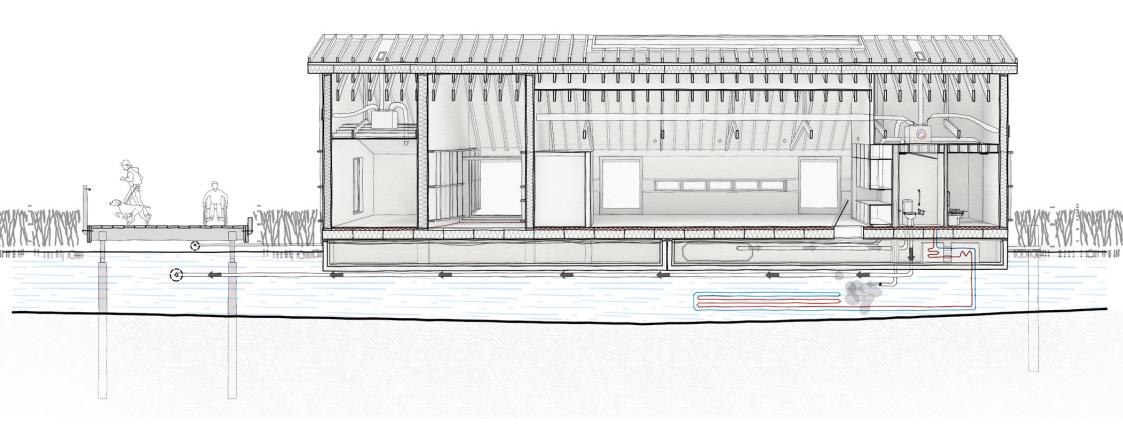


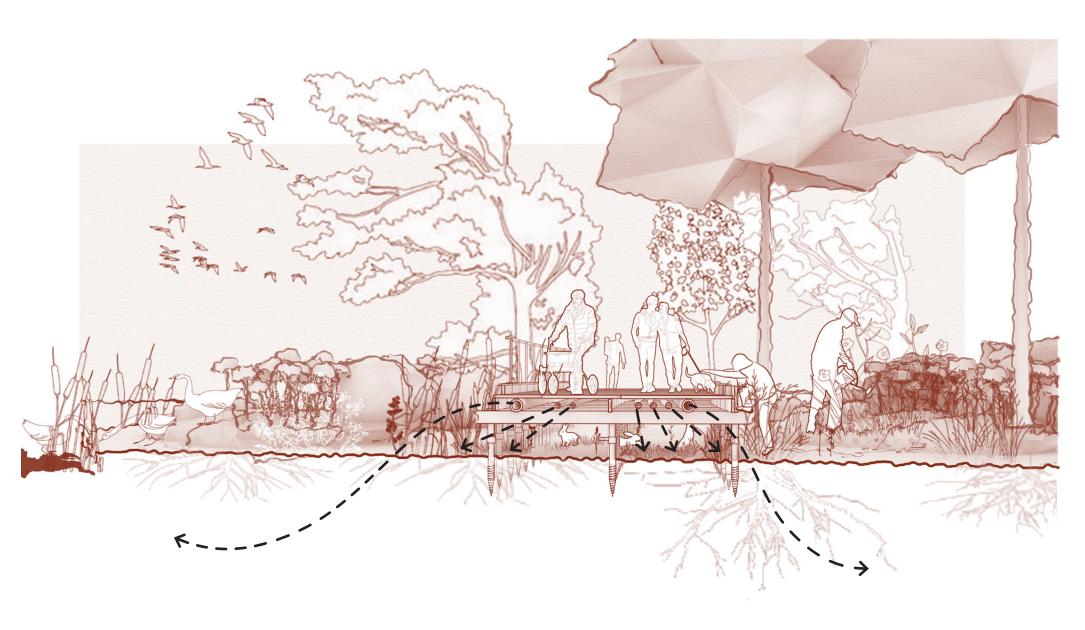
iii. air-to-air 'Type D' (MVHR) ventilation system

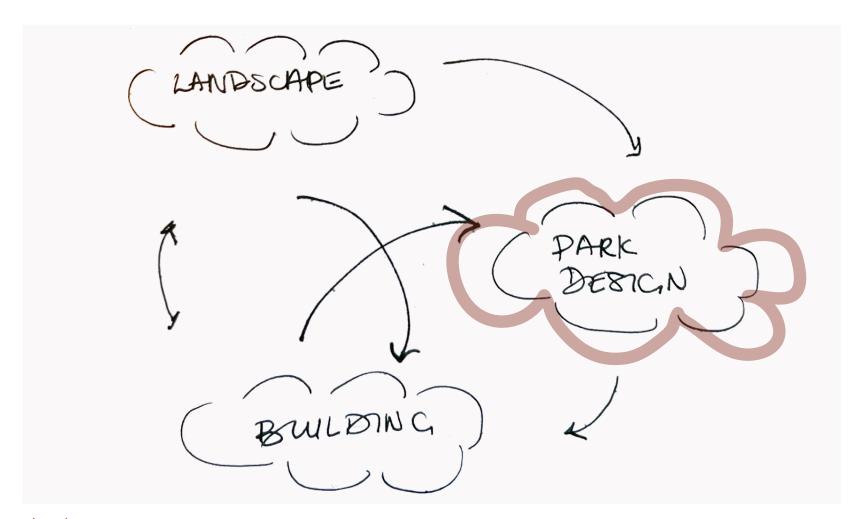












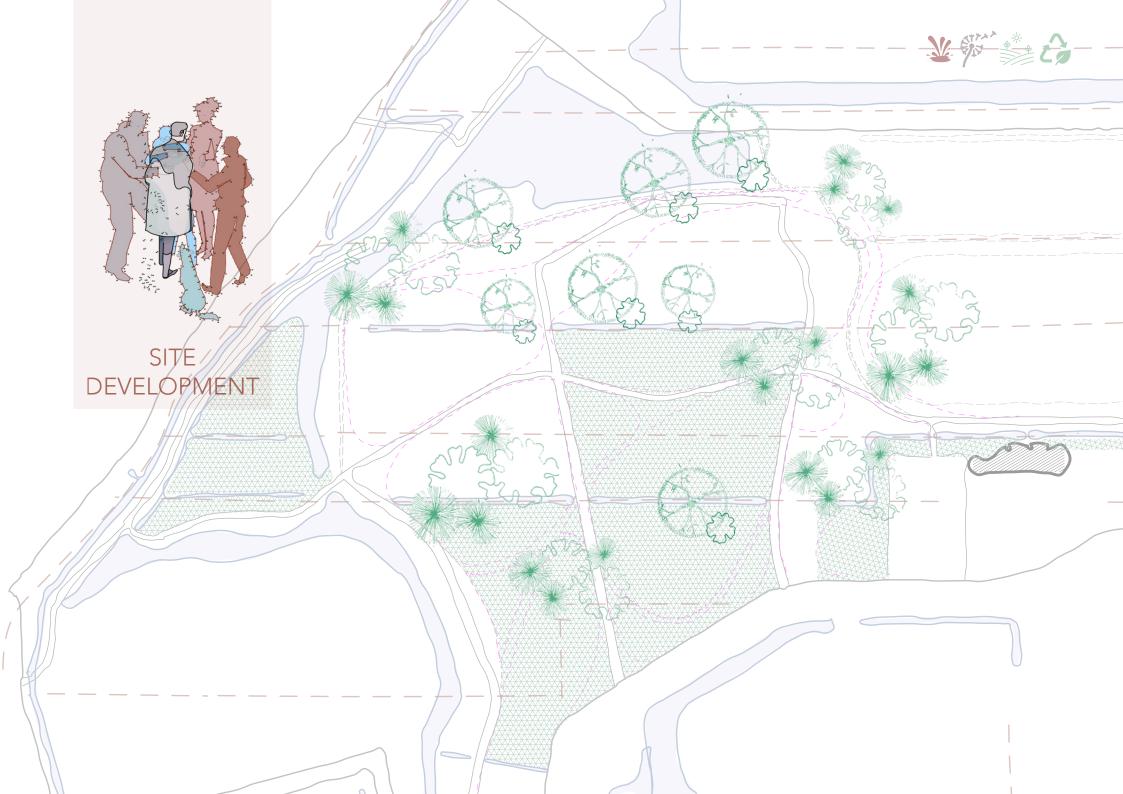
the bigger picture



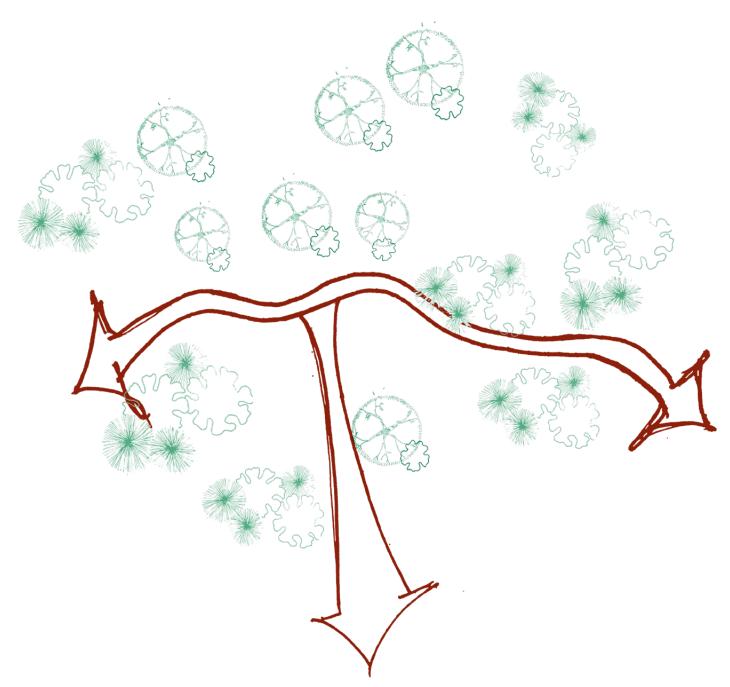


Buitenhof
Buitenhof Parkje (114,236 $m^2 = 28.22$ acres = 11.42 hectares)
(54,873 $m^2 = 13.56$ acres = 5.487 hectares)



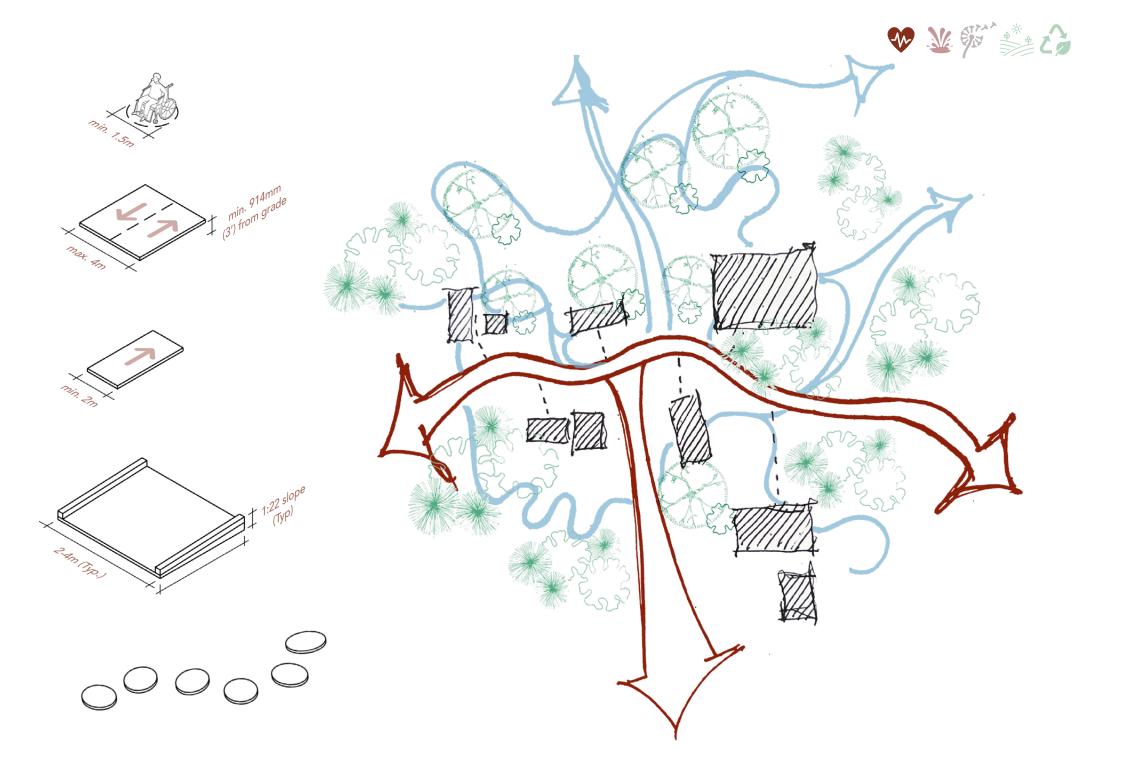








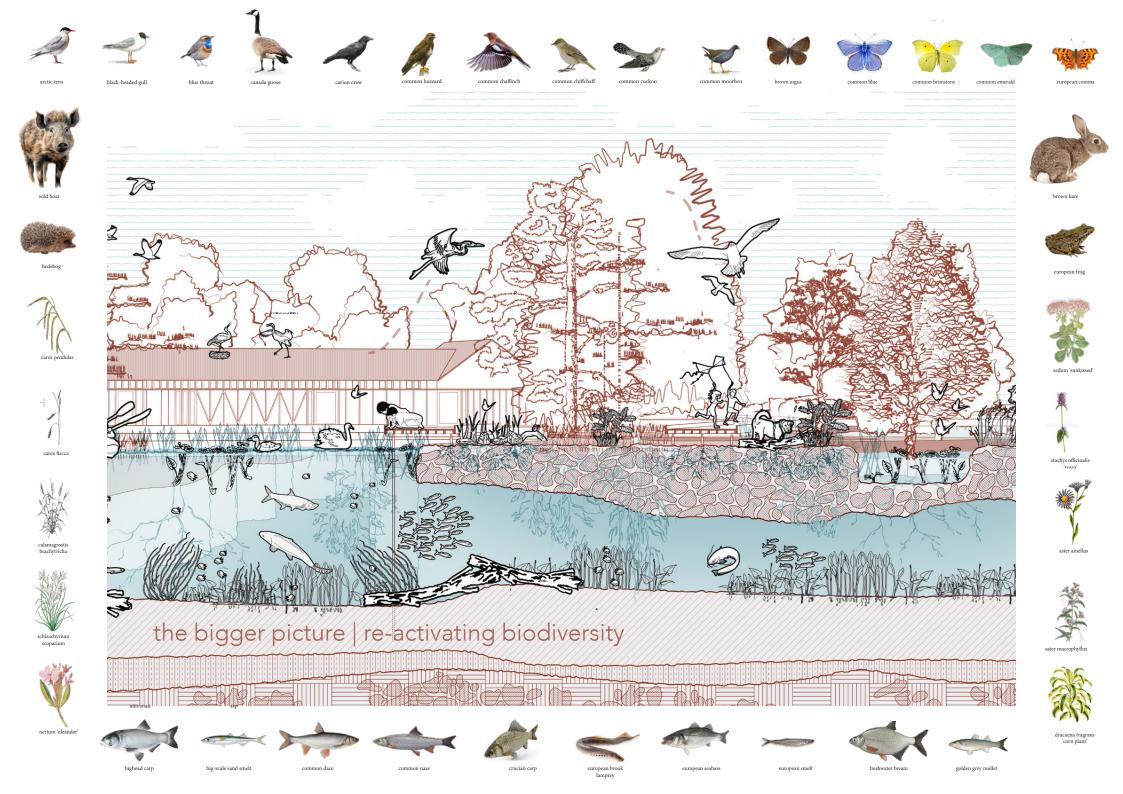






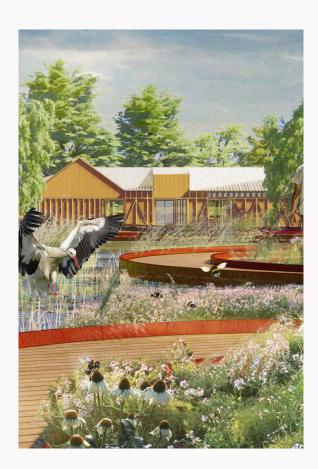


the bigger picture | re-activating the site











the bigger picture | decentralized community care... for all

site selection criteria



proximity to residential neighbourhoods non-touristic



schools & youth facilities



options



environments - forest - bodies of water



early detection & $intervention \ for \\$ youth in crisis - areas in need of support





movement



natural & honest materials



accessibility



design criteria

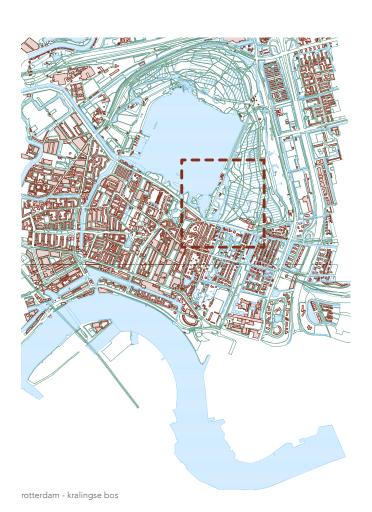
space



space



max. 2 storey height







amsterdam - erasmuspark



thank you!

"people are meant to be burdens"

".... as in, humans rely on and support one another and it's not a bother, it's our purpose; to love and be loved in return."

- author unknown

(Image of a Tumblr comment, n.d.)

- building and/or home user guide - engagement & feedback - maintenance policies & procedures - environmental policies & procedures - green lease

- condition survey - reuse & recyling facilities - resource inventory - future adaptation - sustainable procurement - optimising resourse use, reuse, and recycling

- flood risk assessment - surface water run-off impact management - natural hazards risk assessment - durable & resilient features - climate-related transition risks & opportunities - social risks & opportunities

RESILIENCE

HEALTH & WELLBEING

MANAGEMENT

- indoor air quality management - acoustic conditions - ventilation & indoor air quality monitoring - provision of rest areas & access to indoor/ outdoor space - inclusive design

- thermal comfort

WATER

RESOURCES

- water monitoring - water efficient equipment: toilets, urinals, taps, showers, baths, appliances - leak detection & prevention - use of alternative sources of water - water consumption - water recycling

AND USE & ECOLOGY - planted area ecological features of planted area - ecology report biodiversity management plan

ENERGY



TRANSPORT - alternative modes of transport - proximity to public transport - proximity to amenities - pedestrian and cyclist safety

POLLUTION - minimising watercourse pollution - local air quality

- global warming potential of refrigerants

- reduction of night-time light pollution

 -contamination from invasive plant species

