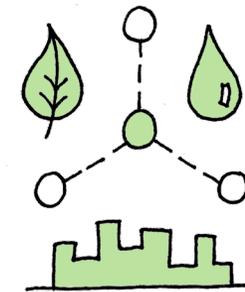


GROWING INTO INDEPENDENCE →

A research on enhancing social engagement in the living environment of adults with a Mild Intellectual Disability within urban green-blue grids



CONTENT



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Explaining the
final concept

Elaboration

Surroundings

Building program
in plans & facades

- Daycare
- Group homes
- Individual homes
- Rest of inclusive
neighbourhood

Technology

Sustainability

Climate

Construction

Fragment & detail

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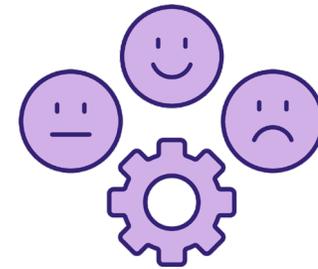
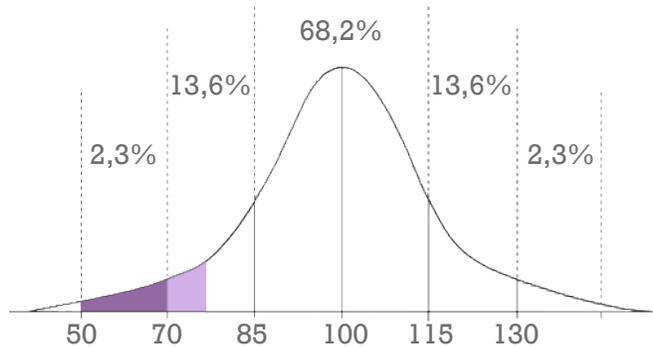
Climate

Construction

Fragment & detail

DEFENITION MID

Mild Intellectual Disability



IQ between 50 - 70

Or 70 - 85 with

at least 2



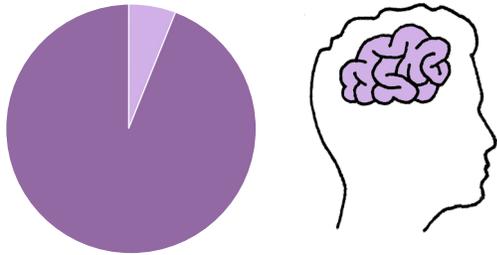
Diffuculty with:

- Practical skills
- Social skills
- Cognitive skills

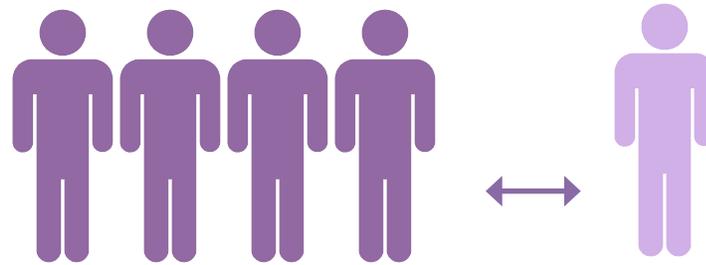
For example:

- Administration - hygiene
- Emotional regulation - self image
- Reading - attention

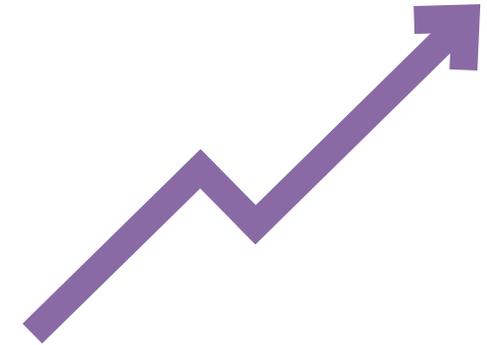
PROBLEM STATEMENT



6,4% of the Dutch population has a Mild Intellectual Disability

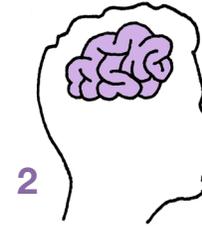


- Participate less in society
- More often lonely
- Less satisfied with life



Society is getting more complex and increasingly higher demands are placed on people's functioning

Current living environments
for adults with an MID

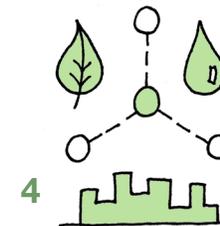


The needs of adults
with an MID



What living environment¹ for adults with a Mild Intellectual Disability² supports social engagement and meaningful experiences³ within urban green-blue grids⁴?

Fostering social engagement
and meaningful experiences



Support from urban
green-blue grids



A quote that got me thinking...

“He doesn’t want to live in a residential group. He wants to live as **independently** as possible, as far as he could manage.”

*~ Jessica (pseudonym),
sister of someone with an MID*



Inner conflict of the target group...



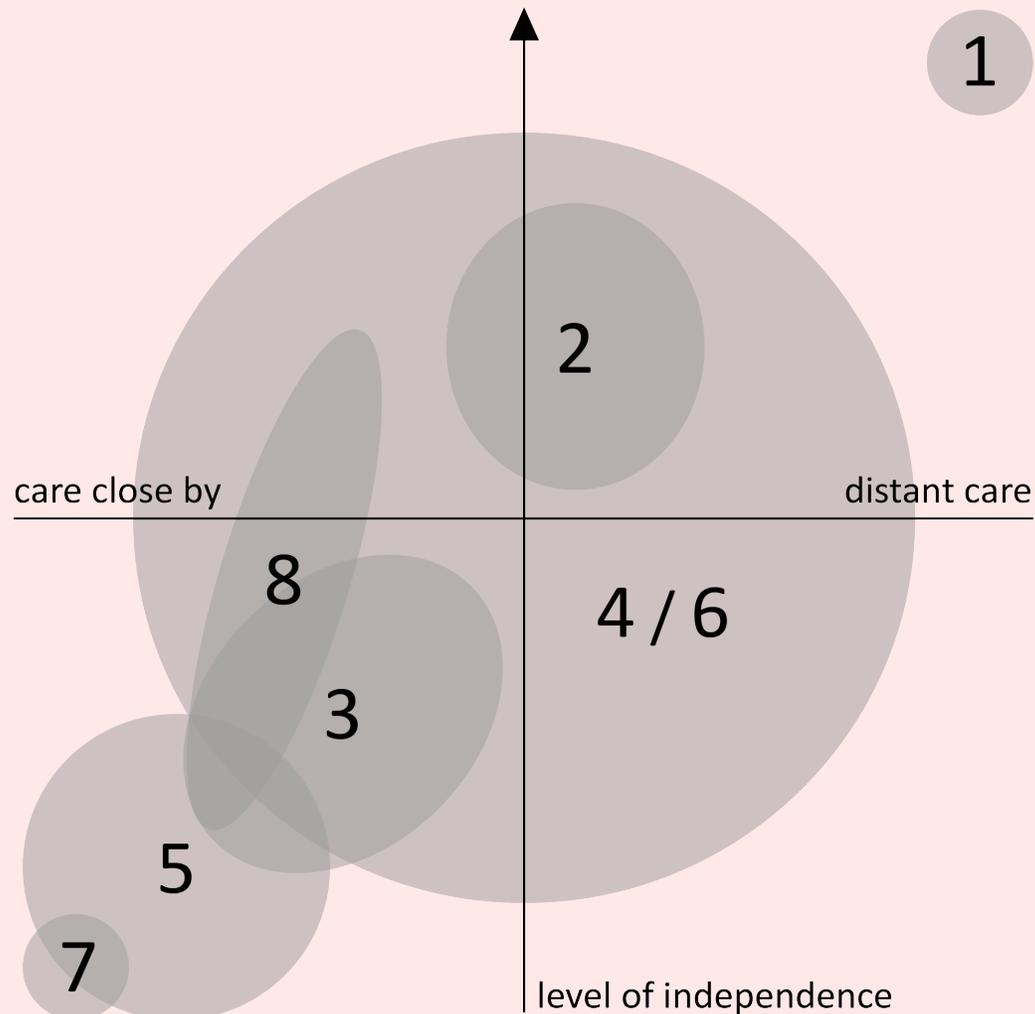
Desire to be independent

VS

Need for (minimal) care



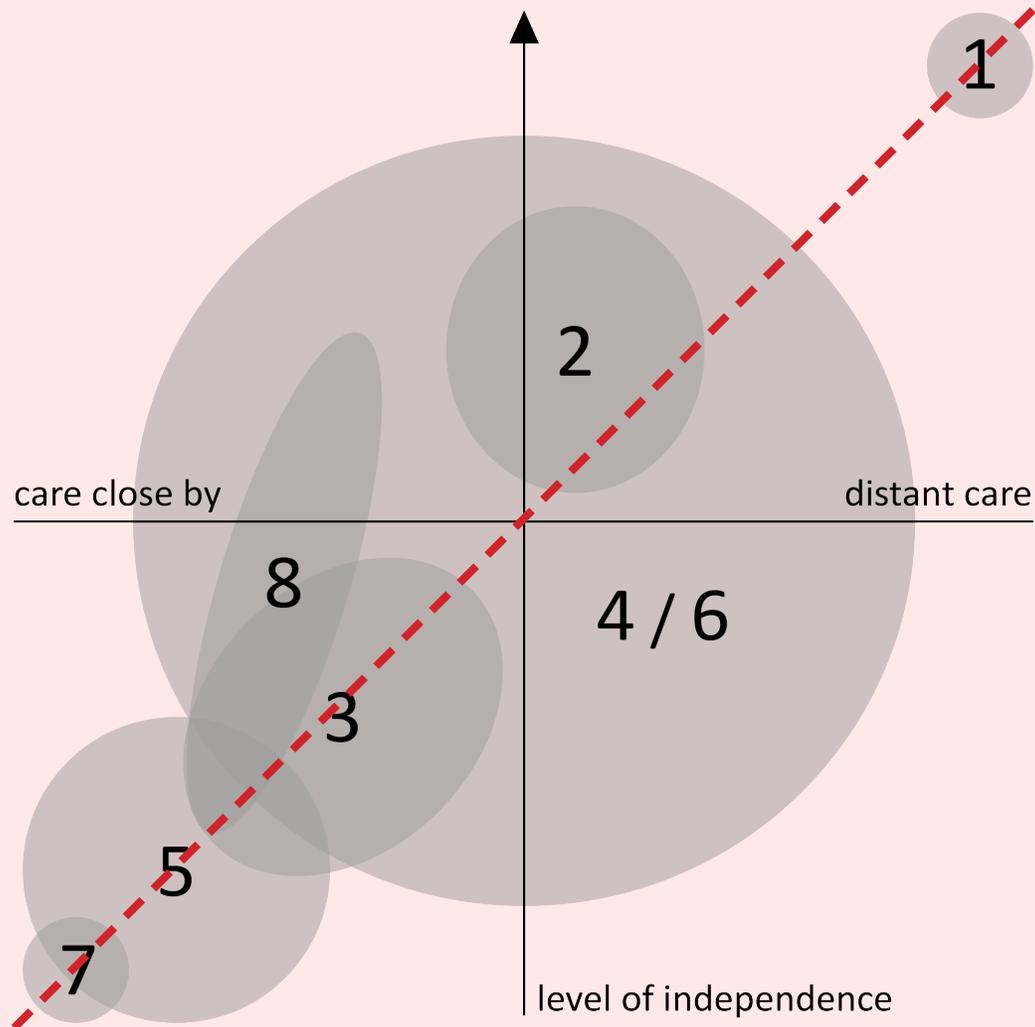
CURRENT LIVING ENVIRONMENTS



1. Independent living with guidance
2. Independent living with support point
3. Small-scale living facilities
4. Care farms
5. Thomashuizen
6. Parent initiatives
7. Living at home with parents
8. Temporary transitional housing



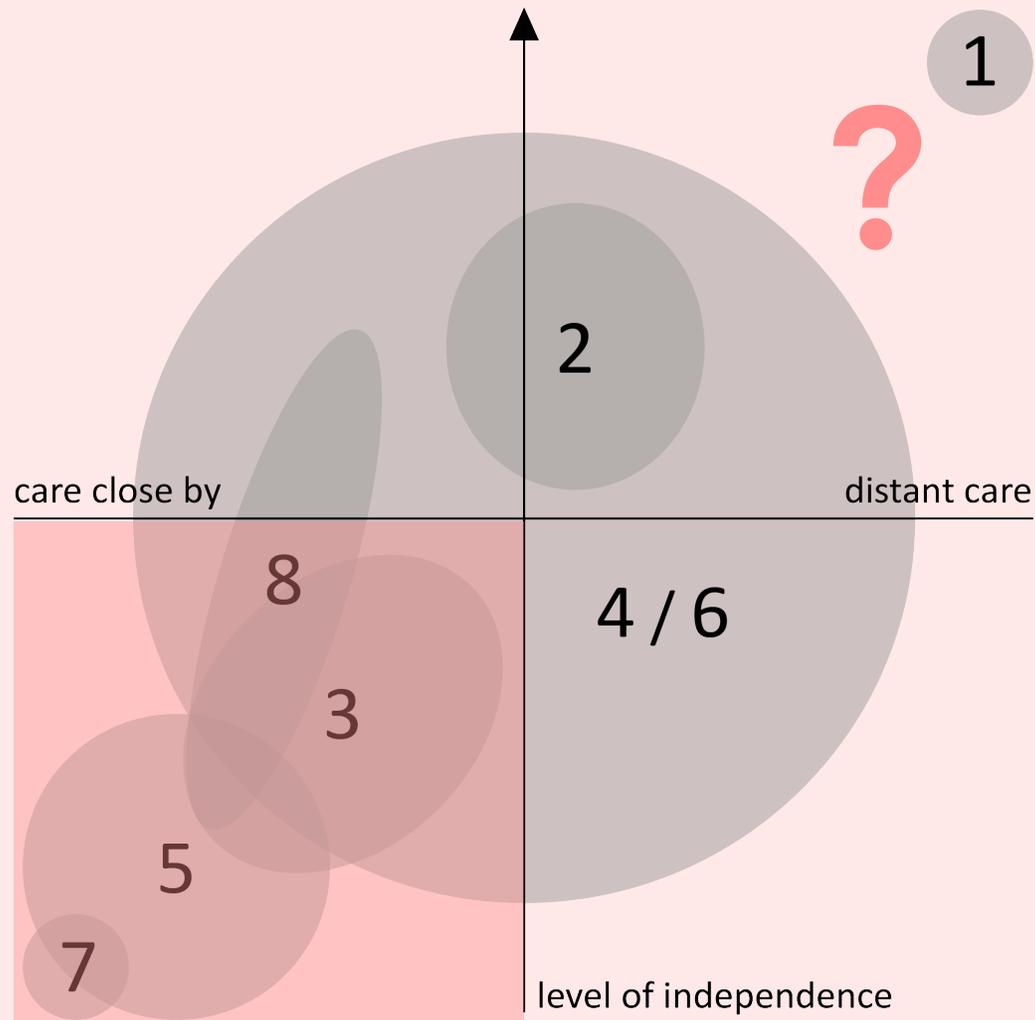
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FIRST MAIN FINDING

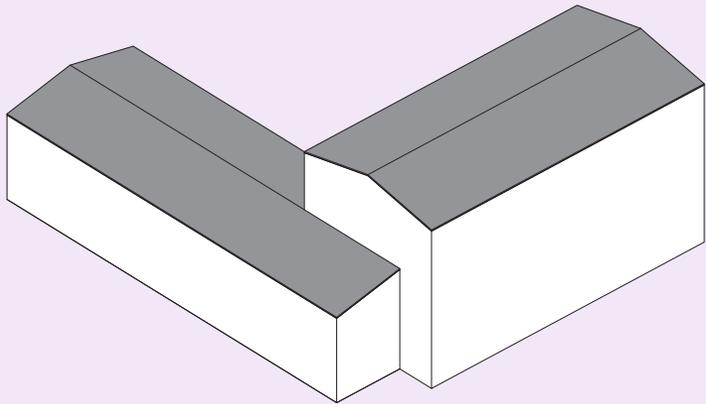


1. Independent living with guidance
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- 3. Small-scale living facilities**
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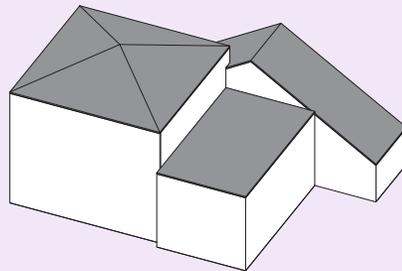


Fieldwork week

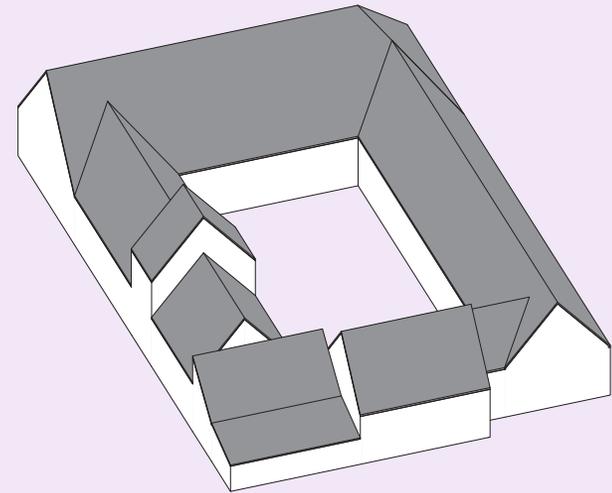
Experiencing the daily life & learning by listening



Independent living with support point



Thomashuis



Care farm



DESIGN GUIDELINES



ARCHITECTURAL SCALE:

BUILDING*

SURROUNDINGS*

NEIGHBOURHOOD*

Good acoustics

No large crowds

Access to park

Different nooks

Slow traffic

Understandable line between public & private

Familiar & safe routes to daycare/work

Daily facilities in walking distance

Space to meet like-minded people

Social greenery outdoors

Lively views from private dwelling

Public transport

* Ordinary appearance



DESIGN GUIDELINES



ARCHITECTURAL SCALE:

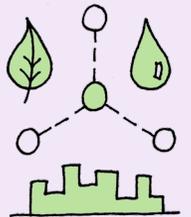
BUILDING*

SURROUNDINGS*

NEIGHBOURHOOD*



Good acoustics	No large crowds	Access to park
Different nooks	Slow traffic	
Understandable line between public & private		Familiar & safe routes to daycare/work
SENSORY DESIGN	Daily facilities in walking distance	
Space to meet like-minded people	Social greenery outdoors	
Lively views from private dwelling	Public transport	URBAN GREEN BLUE GRID



* Ordinary appearance



DESIGN GUIDELINES



ARCHITECTURAL SCALE:

BUILDING*

SURROUNDINGS*

NEIGHBOURHOOD*

PRECONDITIONS

Good acoustics	No large crowds	Access to park
Different nooks	Slow traffic	
Understandable line between public & private		Familiar & safe routes to daycare/work
SENSORY DESIGN	Daily facilities in walking distance	
Space to meet like-minded people	Social greenery outdoors	
Lively views from private dwelling	Public transport	URBAN GREEN BLUE GRID

* Ordinary appearance

SECOND MAIN FINDING



GROWING INTO INDEPENDENCE



PRECONDITIONS

SECOND MAIN FINDING



GROWING INTO INDEPENDENCE



PRECONDITIONS

**CLEAR &
STRUCTURED**

**CONNECT
WITH OTHERS**

**AVOID OVER-
STIMULATION**

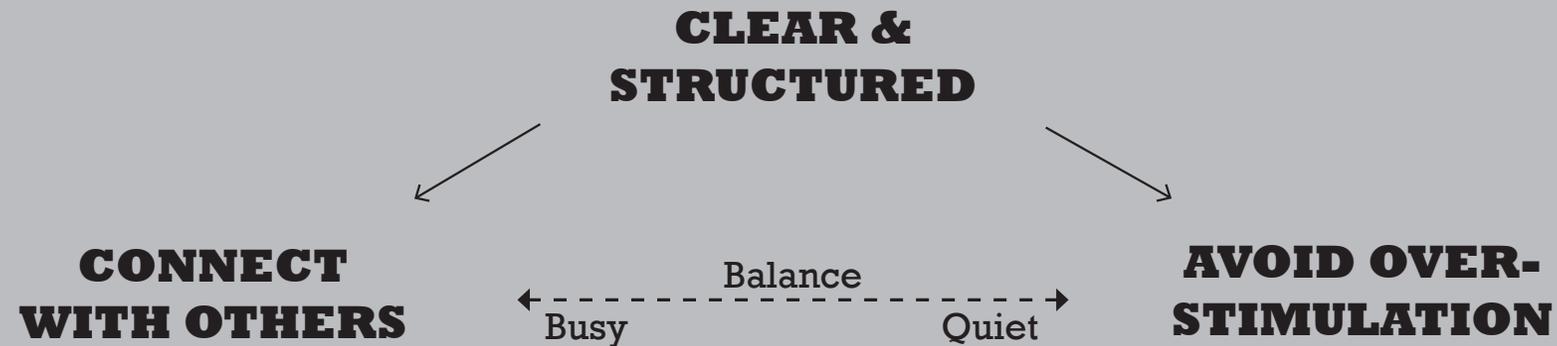
SECOND MAIN FINDING



GROWING INTO INDEPENDENCE



PRECONDITIONS



DESIGN GUIDELINES



GROWING INTO INDEPENDENCE



ARCHITECTURAL SCALE:

BUILDING*

SURROUNDINGS*

NEIGHBOURHOOD*

PRECONDITIONS

AVOID OVERSTIMULATION

CLEAR & STRUCTURED

CONNECT WITH OTHERS

Quiet
Balance
Busy

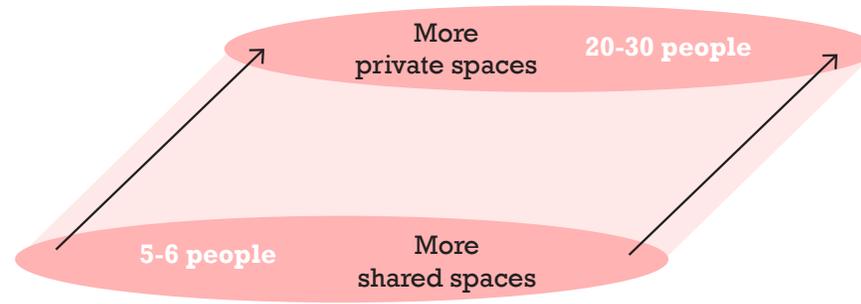
Good acoustics	No large crowds	Access to park
Different nooks	Slow traffic	
Understandable line between public & private		Familiar & safe routes to daycare/work
SENSORY DESIGN	Daily facilities in walking distance	
Space to meet like-minded people	Social greenery outdoors	
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* Ordinary appearance

DESIGN GUIDELINES



GROWING INTO INDEPENDENCE



ARCHITECTURAL SCALE:

BUILDING*

SURROUNDINGS*

NEIGHBOURHOOD*

PRECONDITIONS

AVOID OVERSTIMULATION

CLEAR & STRUCTURED

CONNECT WITH OTHERS

Quiet
Balance
Busy

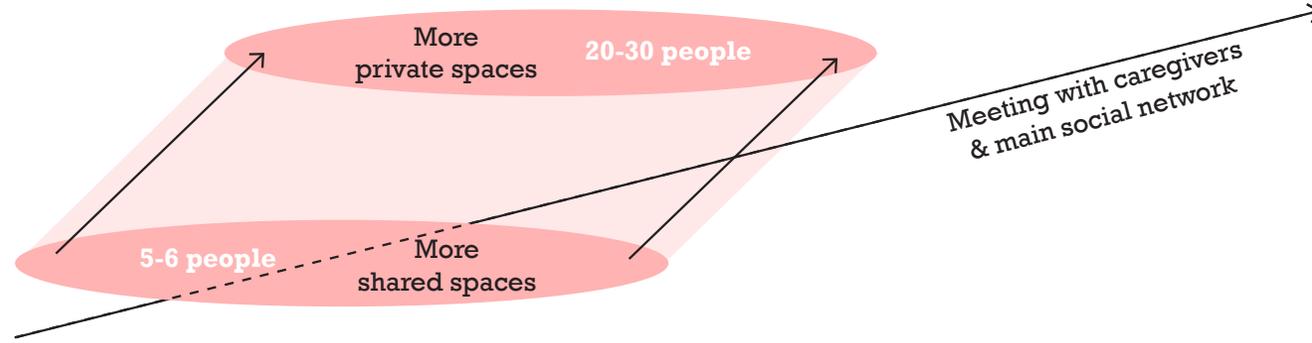
Good acoustics	No large crowds	Access to park
Different nooks	Slow traffic	
Understandable line between public & private		Familiar & safe routes to daycare/work
SENSORY DESIGN	Daily facilities in walking distance	
Space to meet like-minded people	Social greenery outdoors	
Lively views from private dwelling	Public transport	URBAN GREEN BLUE GRID

* Ordinary appearance

DESIGN GUIDELINES



GROWING INTO INDEPENDENCE



ARCHITECTURAL SCALE:

BUILDING*

SURROUNDINGS*

NEIGHBOURHOOD*

PRECONDITIONS

AVOID OVERSTIMULATION

CLEAR & STRUCTURED

CONNECT WITH OTHERS

Quiet
Balance
Busy

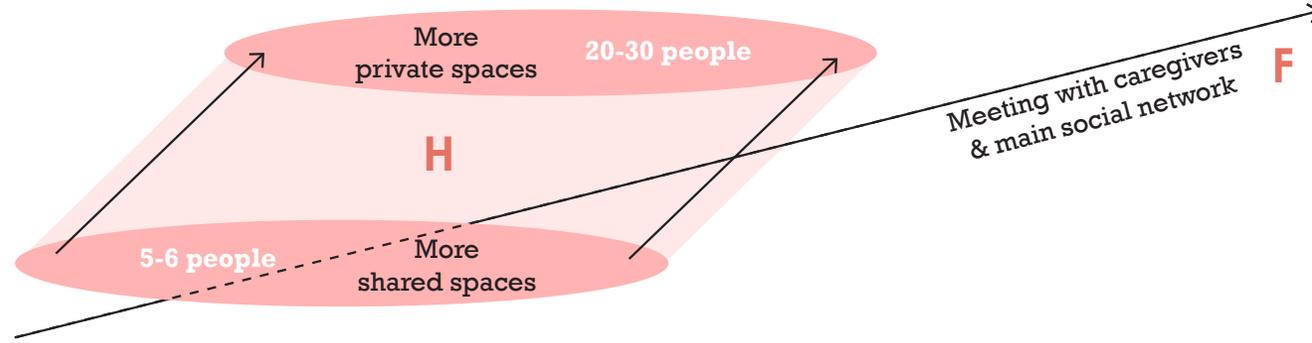
Good acoustics	No large crowds	Access to park
Different nooks	Slow traffic	
Understandable line between public & private		Familiar & safe routes to daycare/work
SENSORY DESIGN	Daily facilities in walking distance	
Space to meet like-minded people	Social greenery outdoors	
Lively views from private dwelling	Public transport	URBAN GREEN BLUE GRID

* Ordinary appearance

DESIGN GUIDELINES



GROWING INTO INDEPENDENCE



ARCHITECTURAL SCALE:

BUILDING*

SURROUNDINGS*

NEIGHBOURHOOD*

PRECONDITIONS

AVOID OVERSTIMULATION

CLEAR & STRUCTURED

CONNECT WITH OTHERS

Quiet
↓
Balance
↓
Busy

Good acoustics P	No large crowds K	Access to park D
Different nooks O	Slow traffic A	
Understandable line between public & private M		Familiar & safe routes to daycare/work N
SENSORY DESIGN	Daily facilities in walking distance C	
Space to meet like-minded people G	Social greenery outdoors E	
Lively views from private dwelling L	Public transport B	URBAN GREEN BLUE GRID

I * Ordinary appearance

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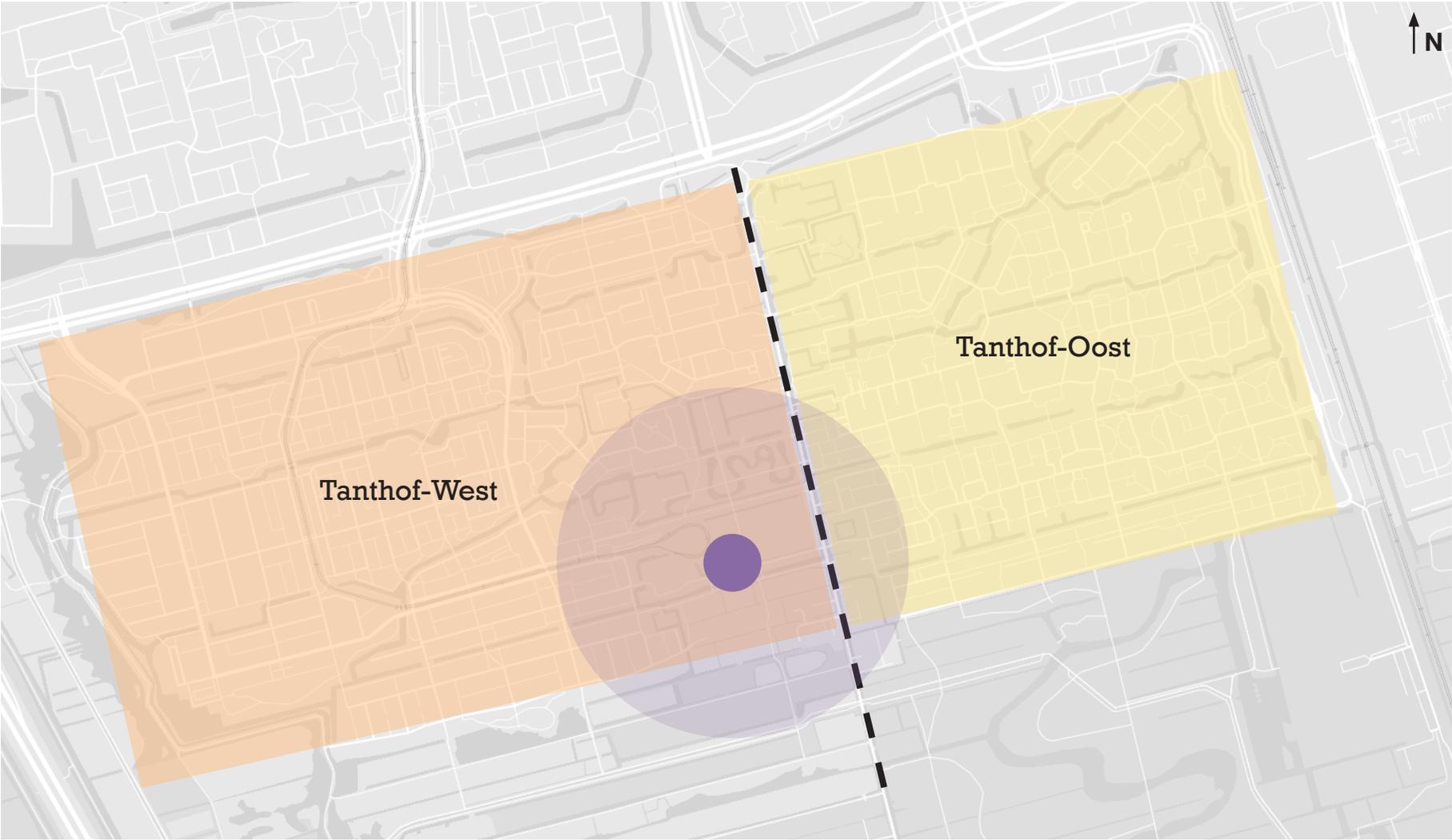
DESIGN LOCATION



DESIGN LOCATION



SITE ANALYSIS



--- Original polder road [lintbebouwing]

SLOW TRAFFIC (Guideline A)



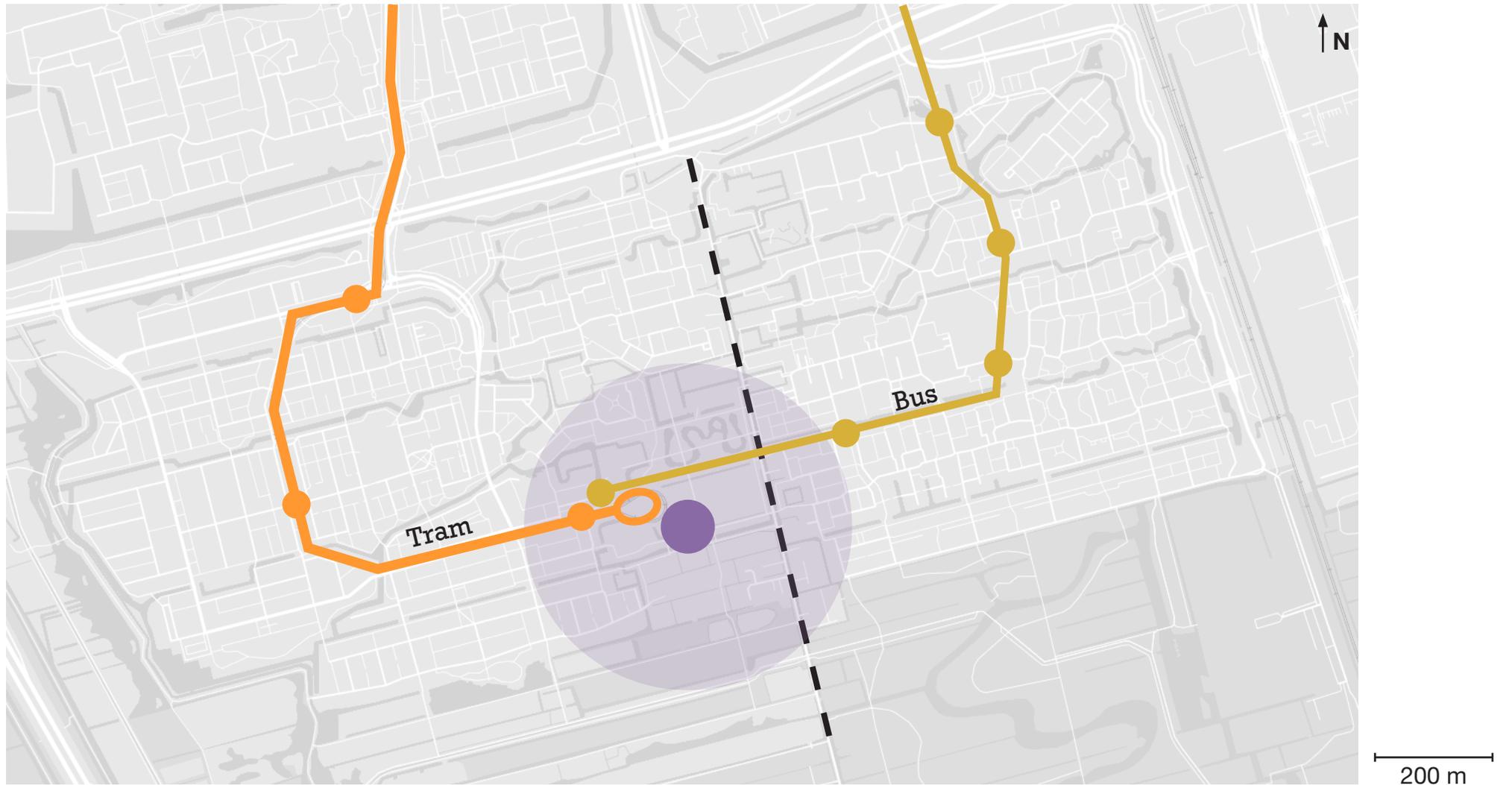
--- Original polder road [lintbebouwing]

SLOW TRAFFIC (Guideline A)



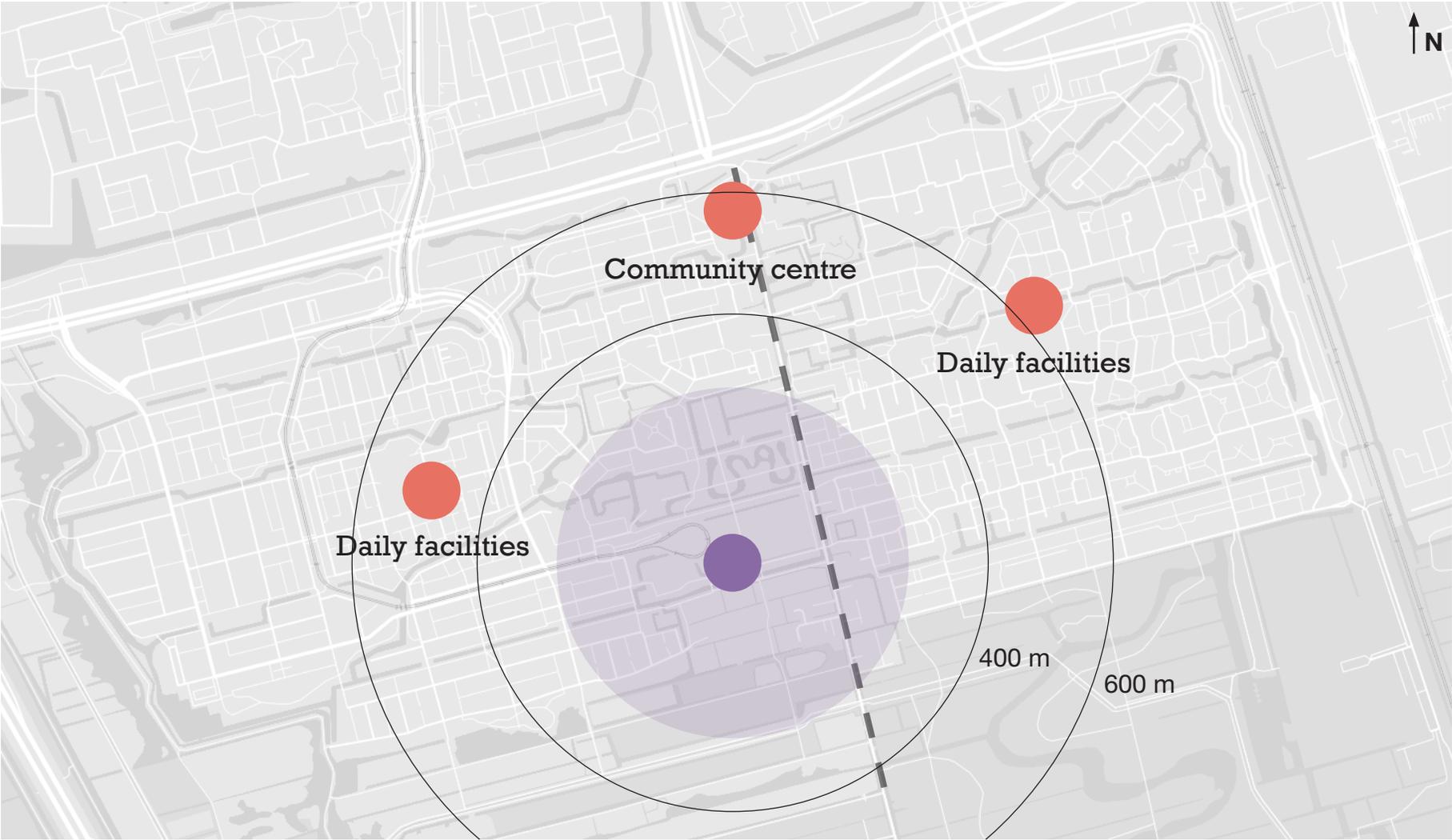
--- Original polder road [lintbebouwing]

PUBLIC TRANSPORT (Guideline B)



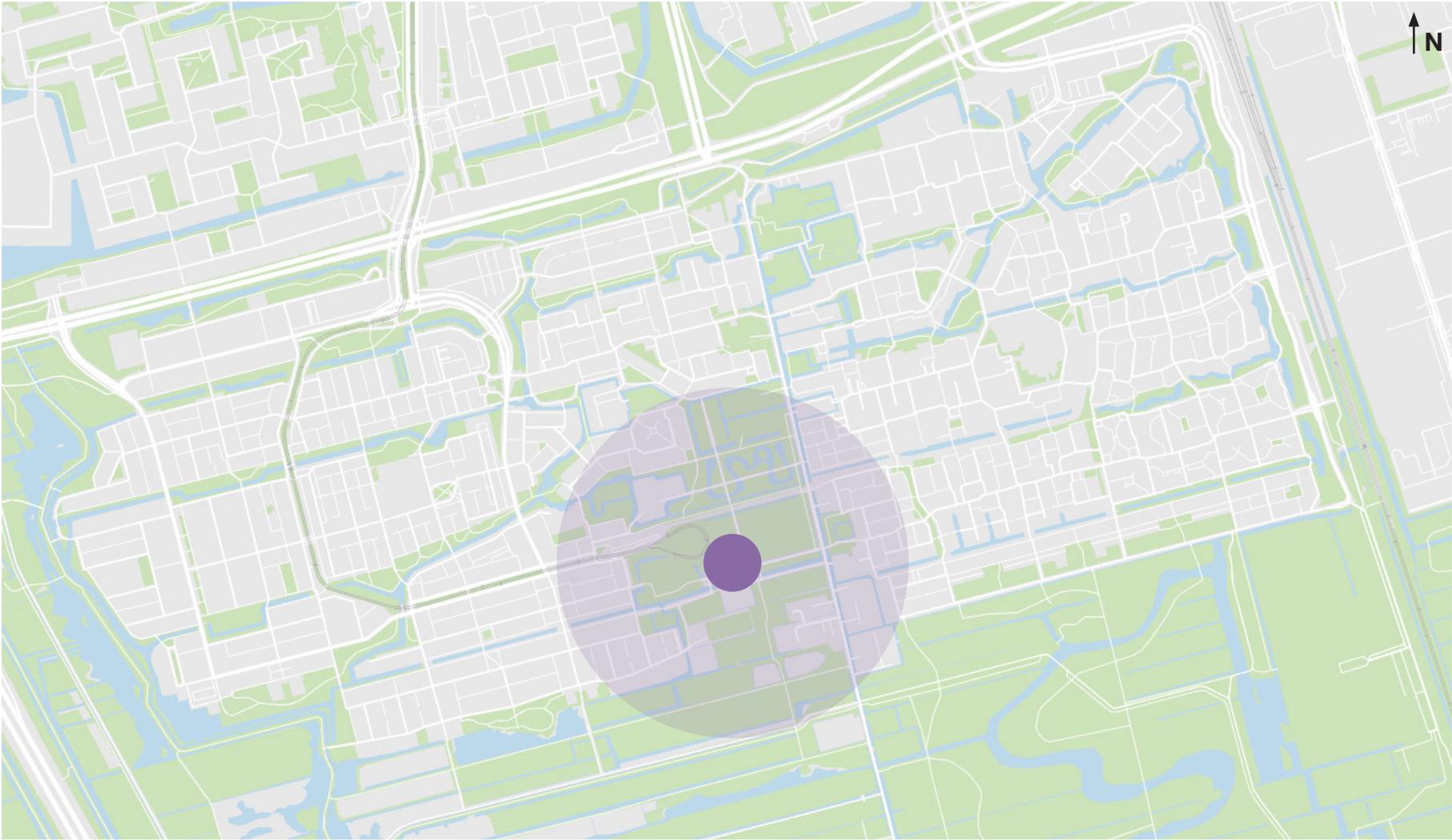
--- Original polder road [lintbebouwing]

DAILY FACILITIES IN WALKING DISTANCE (Guideline C)



--- Original polder road [lintbebouwing]

ACCESS TO PARK (Guideline D)



ACCESS TO PARK (Guideline D)



SOCIAL GREENERY OUTDOORS (Guideline E)



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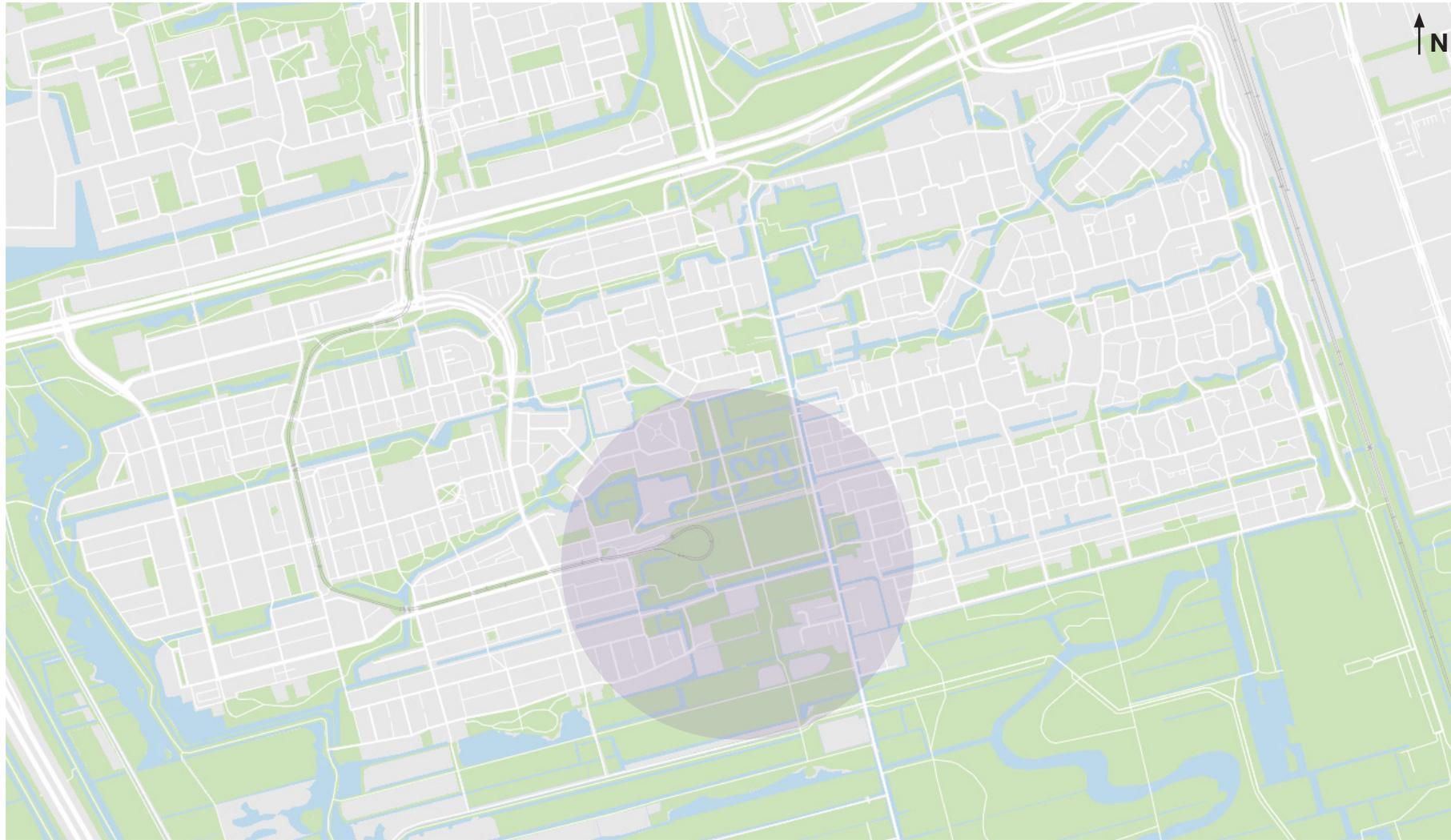
Sustainability

Climate

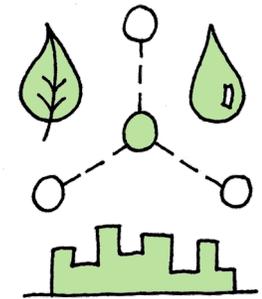
Construction

Fragment & detail

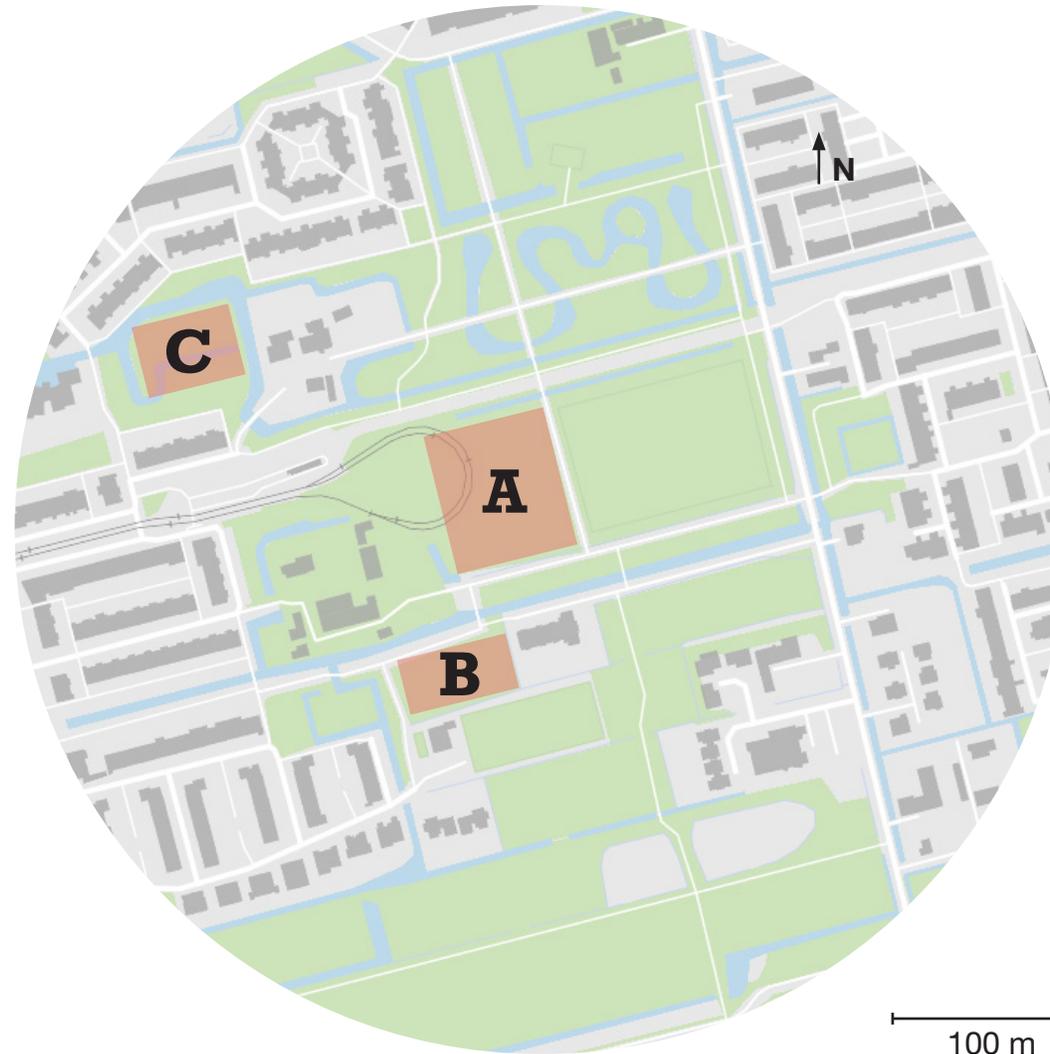
ZOOMING IN ON DESIGN LOCATION



Looking at the site conditions & improving the current situation...

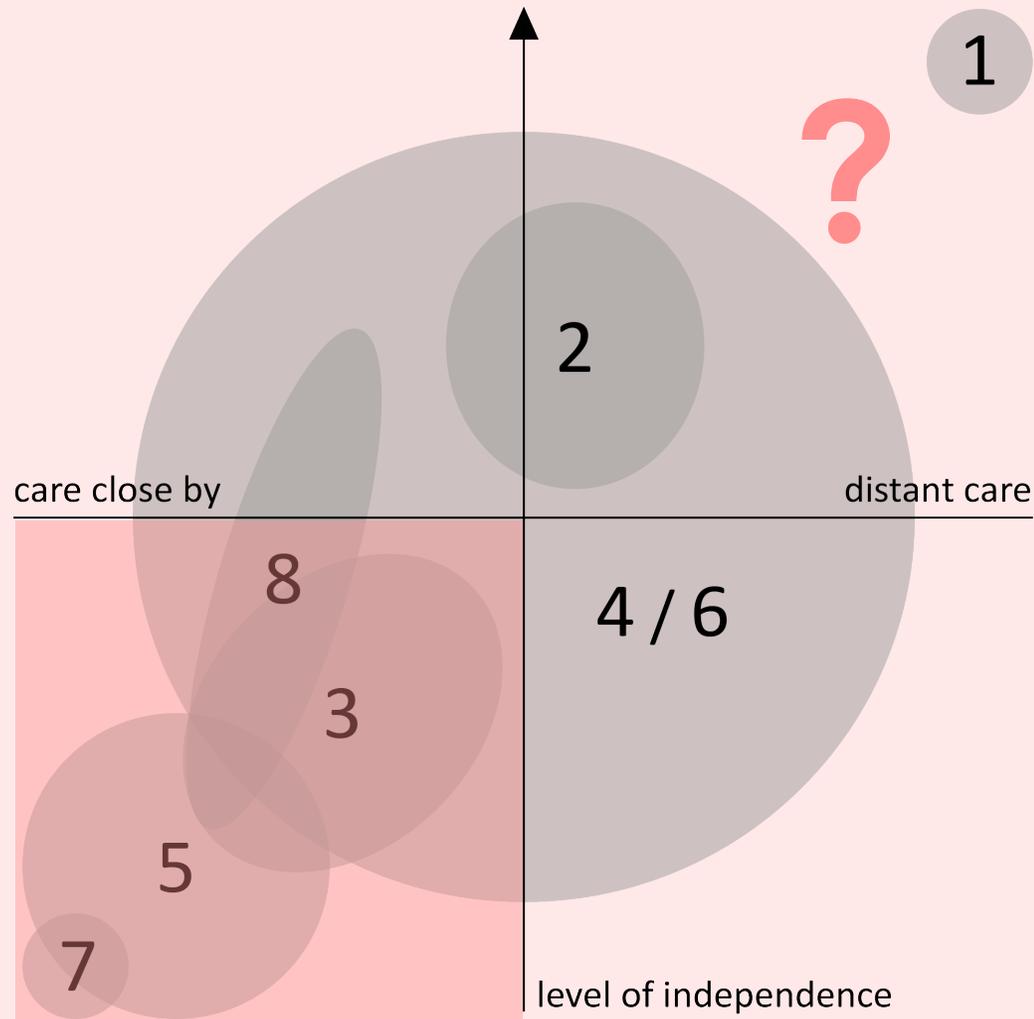


MEETING AT VARIABLE DISTANCE* (Guideline F)



*Meeting with caregivers
& main social network

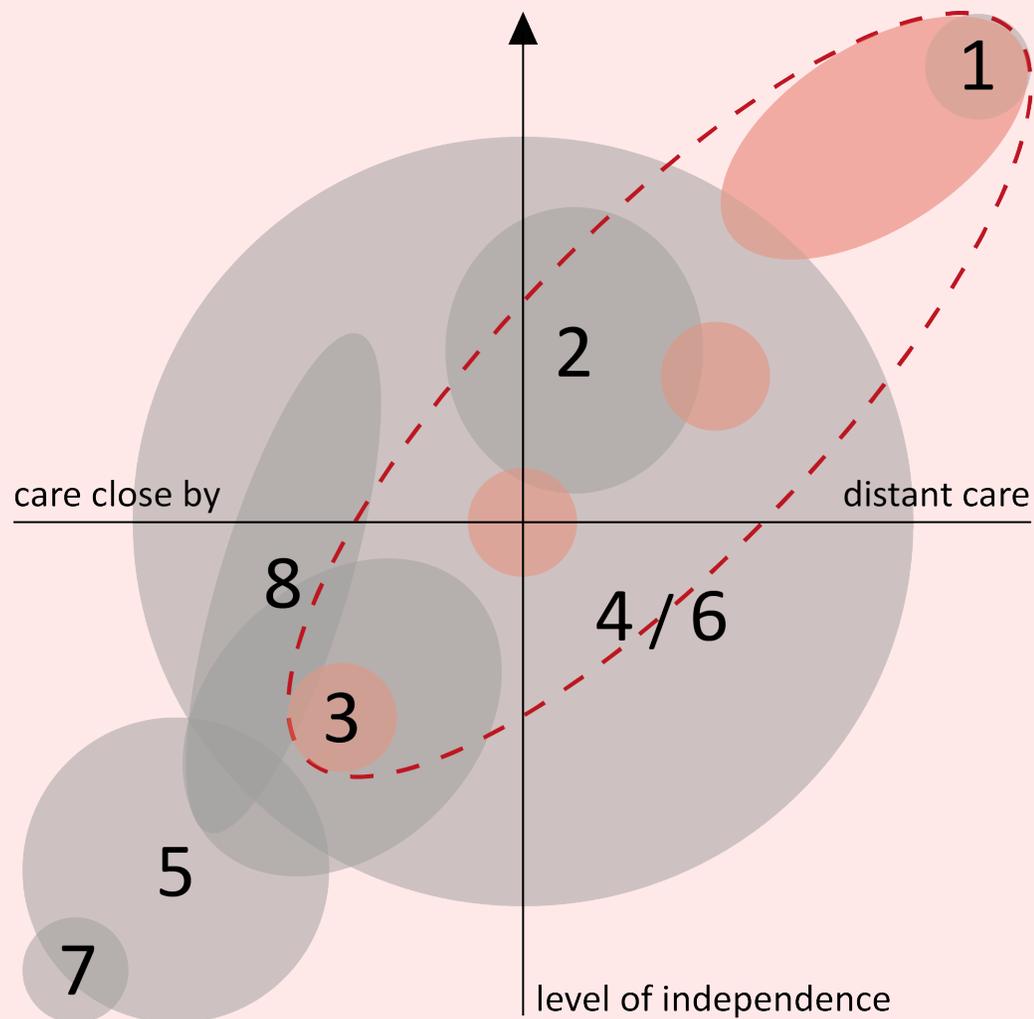
FIRST MAIN FINDING



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2. Independent living with support point
- 3. Small-scale living facilities**
- 4. Care farms**
- 5. Thomashuizen**
- 6. Parent initiatives**
- 7. Living at home with parents**
- 8. Temporary transitional housing**



POTENTIAL FOR A NEW LIVING ENVIRONMENT



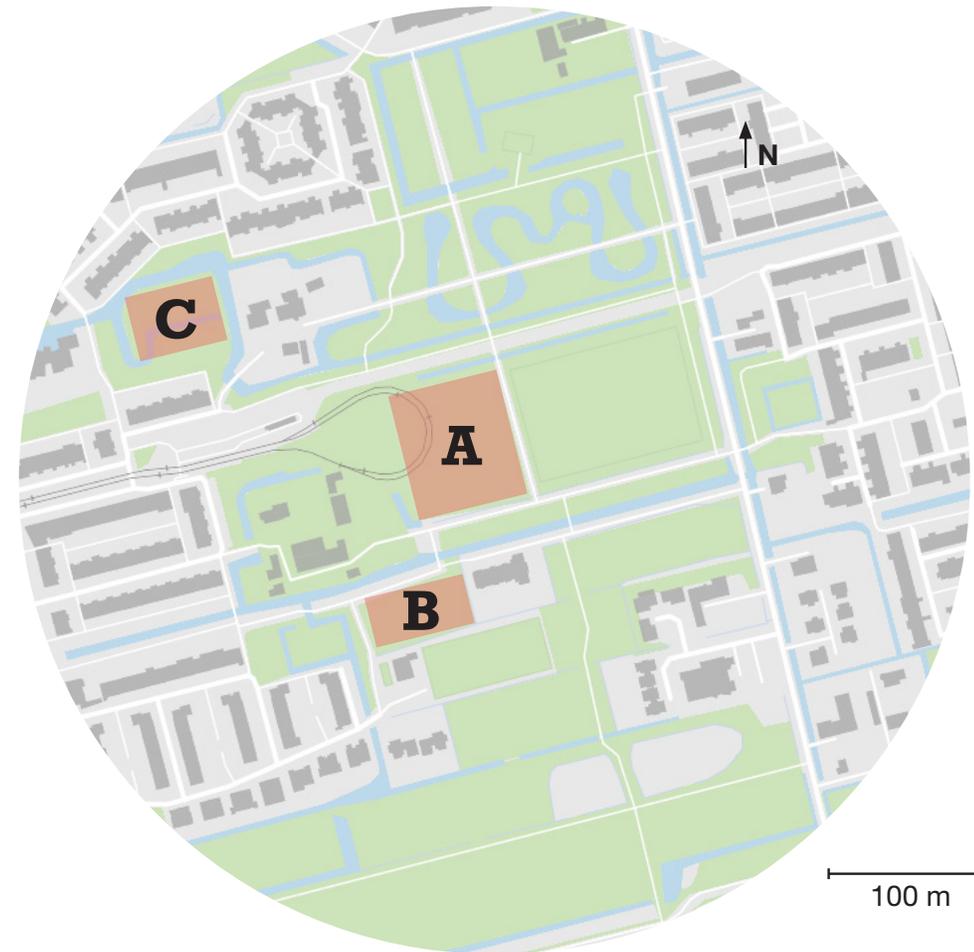
- 1. Independent living with guidance
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POTENTIAL FOR A NEW LIVING ENVIRONMENT

(Guideline F)

- Location A ● care
Group homes
- Location A ● care
Individual homes
- Location B → care
Individual homes
- Location C → care
Individual homes



An important quote from my research...



“The most important thing for a dignified living environment is the neighborhood nearby. That they feel accepted. That they are not pushed away into a separate area but are actively involved.”

*~ Jessica (pseudonym),
sister of someone with an MID*

POTENTIAL FOR A NEW LIVING ENVIRONMENT

(Guideline G)

- 

Living not independently in existing neighbourhood
(current situation)
- 

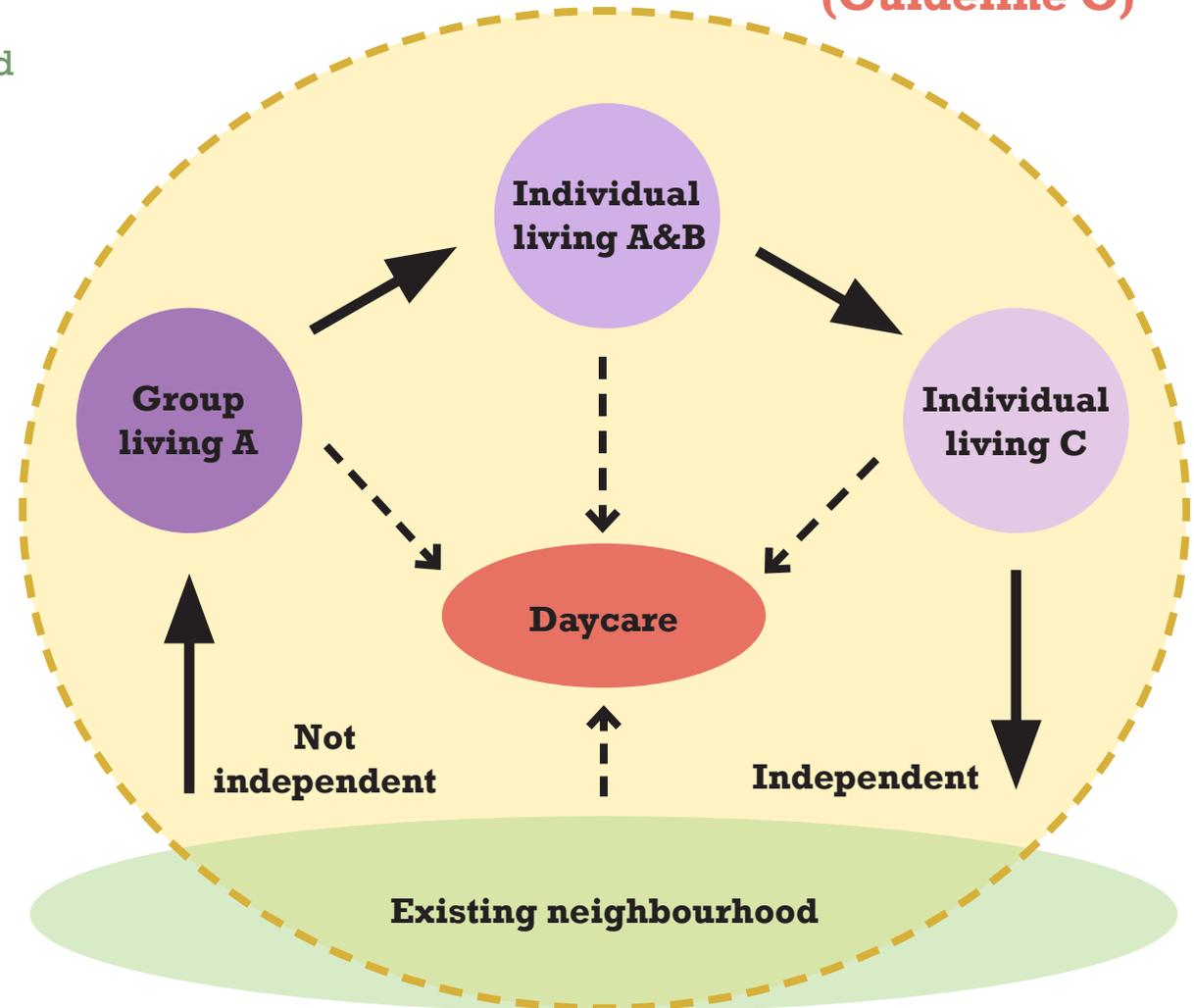
Living in existing neighbourhood
& working at daycare facility
- 

Living in group home at location A
(& working at daycare facility)
- 

Living in individual unit at location A or B
(& working at daycare facility)
- 

Living in individual unit at location C
(& working at daycare facility)
- 

Living independently in existing neighbourhood
(& working at daycare facility)



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PROGRAM OF REQUIREMENTS (Guideline H & I)

Location A ● care

Group homes: 2 clusters x 5 people = 10 people

Individual homes: 2 clusters x 10 people = 20 people

Daycare centre: 40 workplaces

+ **Elderly homes:** 8 people/couples

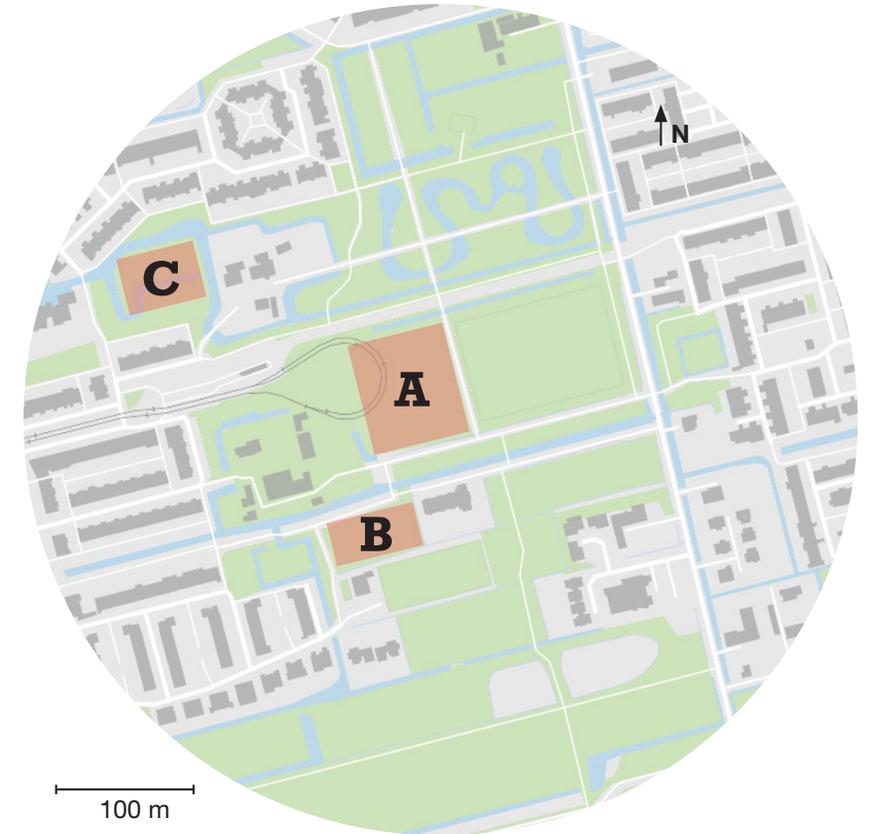
+ **Family homes:** 4 families

Location B → care

Individual homes: 15 people

Location C → care

Individual homes: 12 people/couples



PROGRAM OF REQUIREMENTS (Guideline H & I)

Location A ● care

Group homes: 2 clusters x 5 people = 10 people

Individual homes: 2 clusters x 10 people = 20 people

Daycare centre: 40 workplaces

+ **Elderly homes:** 8 people/couples

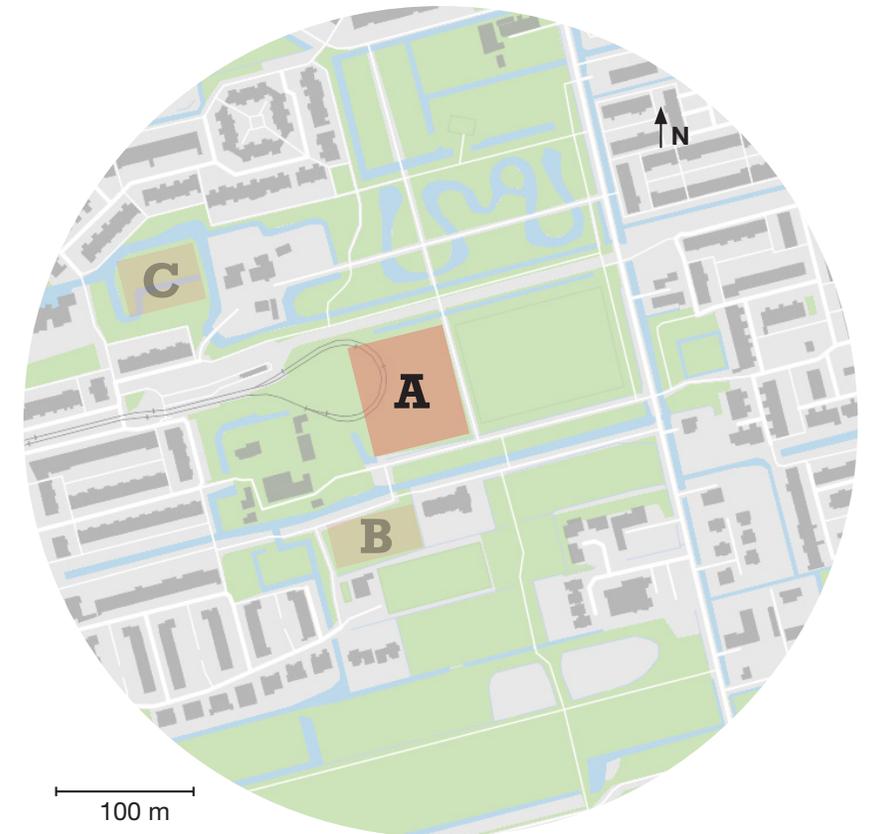
+ **Family homes:** 4 families

Location B → care

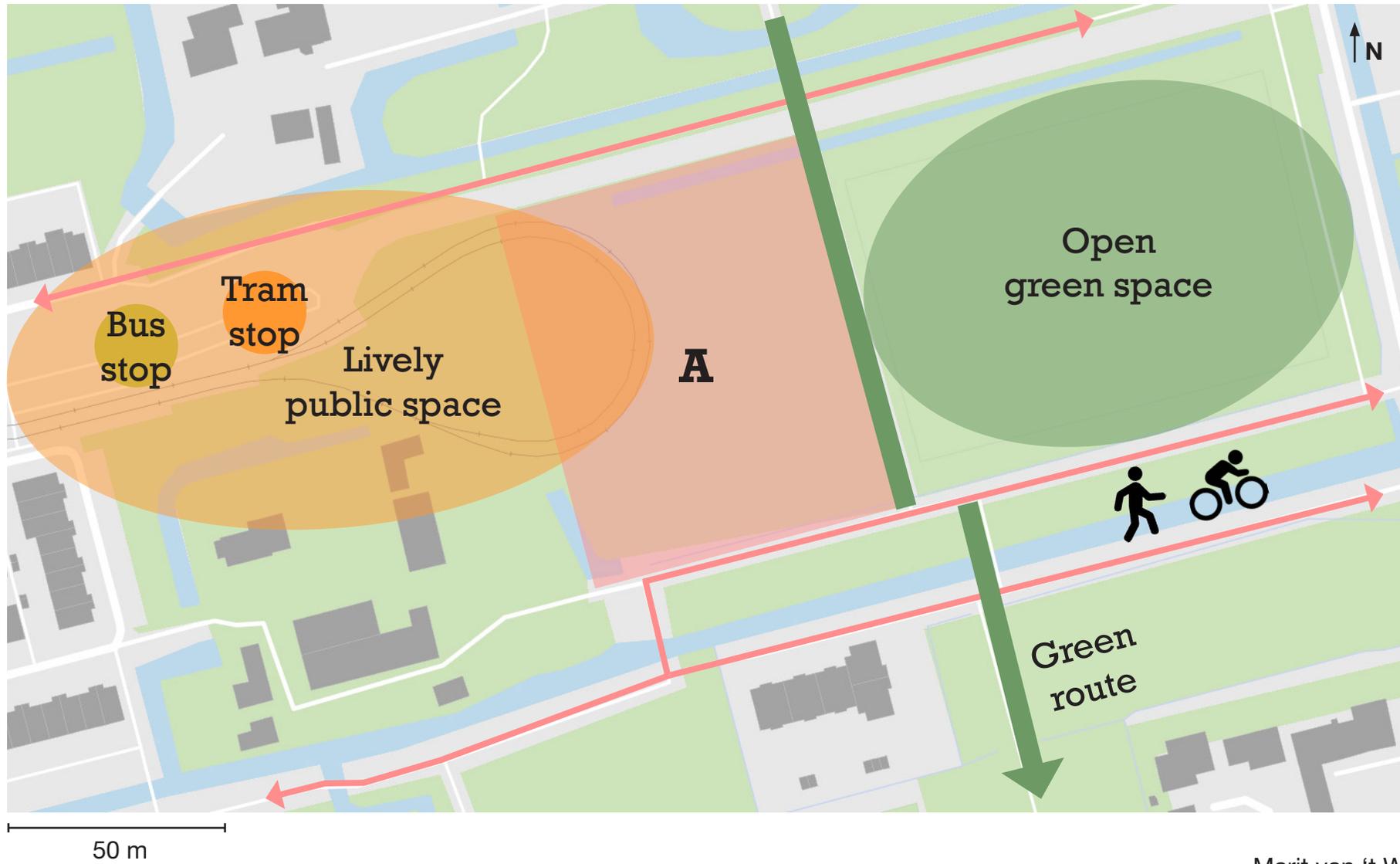
Individual homes: 15 people

Location C → care

Individual homes: 12 people/couples



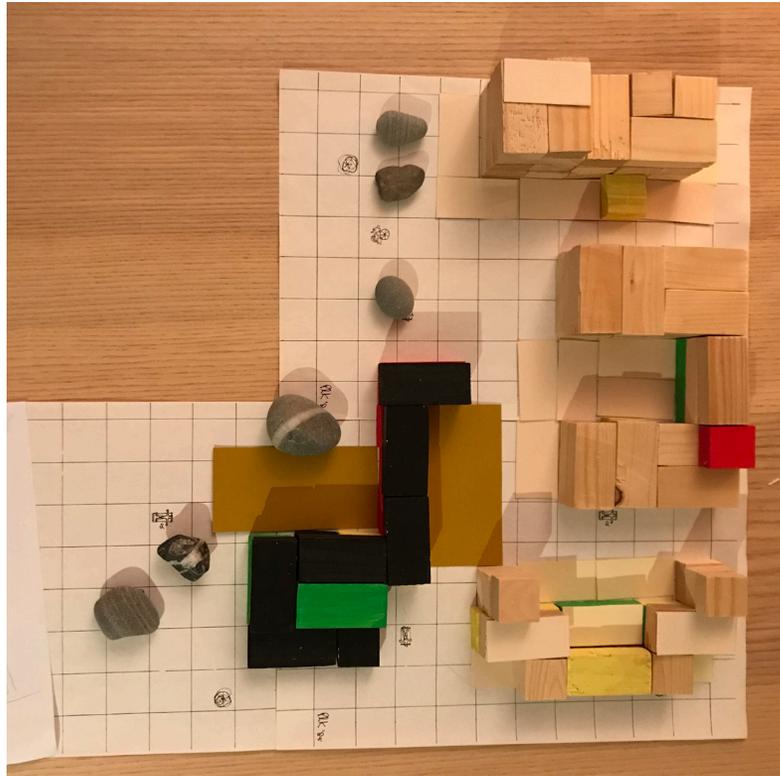
DESIGN LOCATION (Guidelines J)



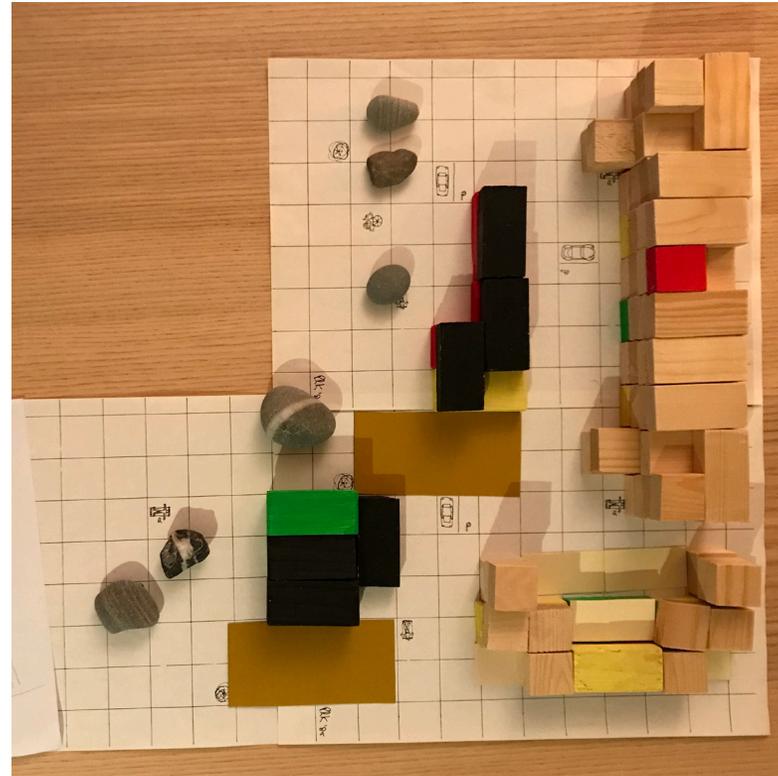
FIRST TRY TO FIT THE PROGRAM

at scale 1:200

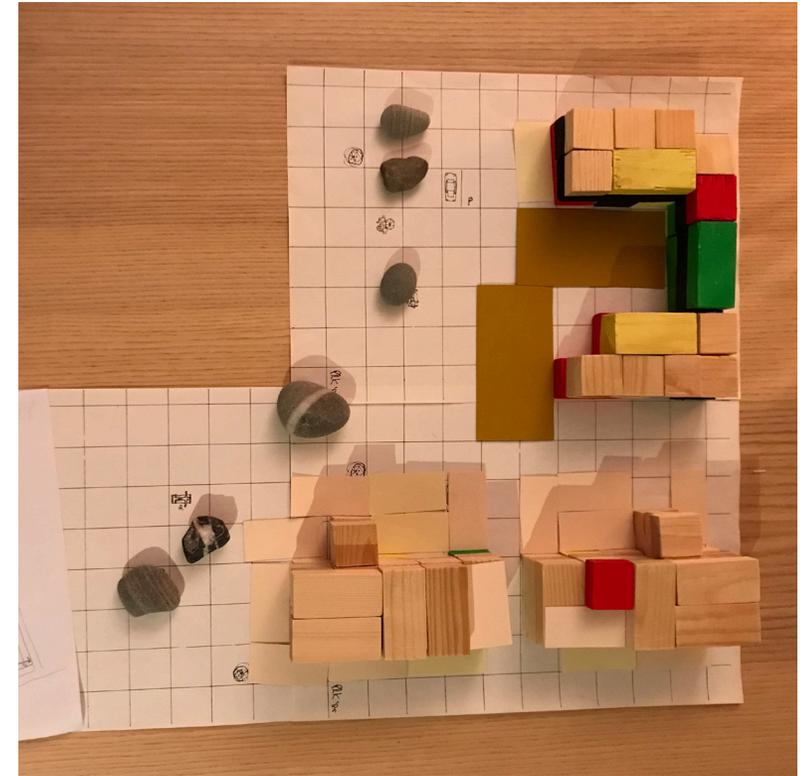
20 m



Optie 1



Optie 2



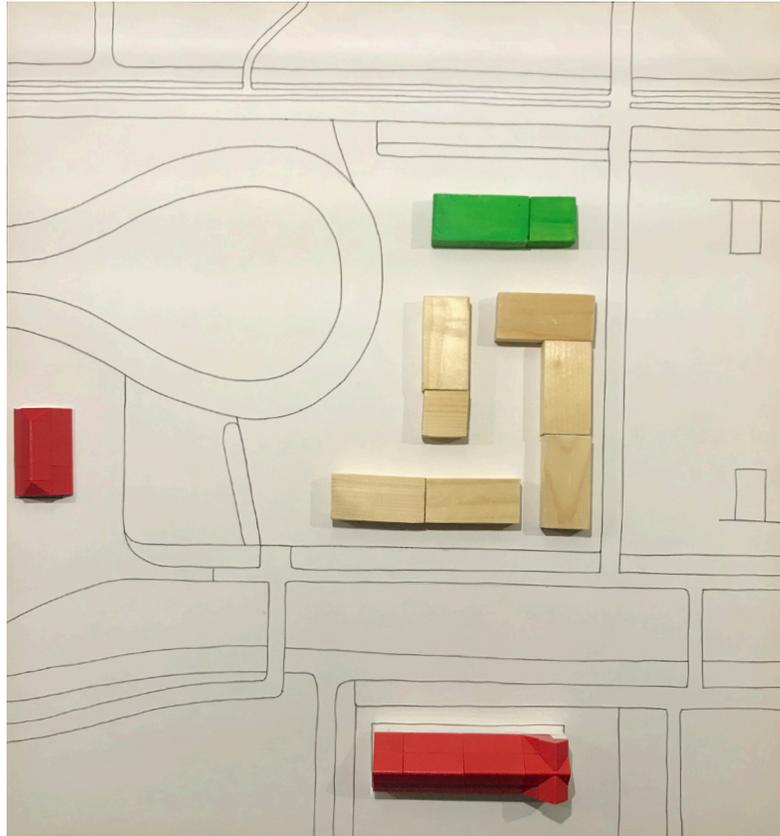
Optie 3

NEEDING A BIGGER SCALE

going back to scale 1:400



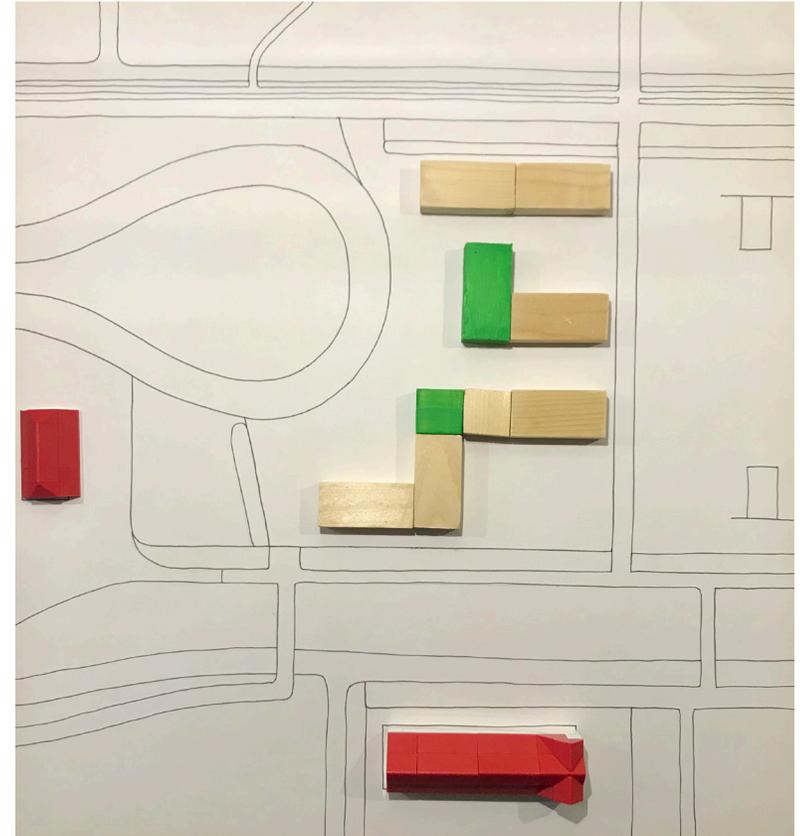
40 m



Optie 10



Optie 11



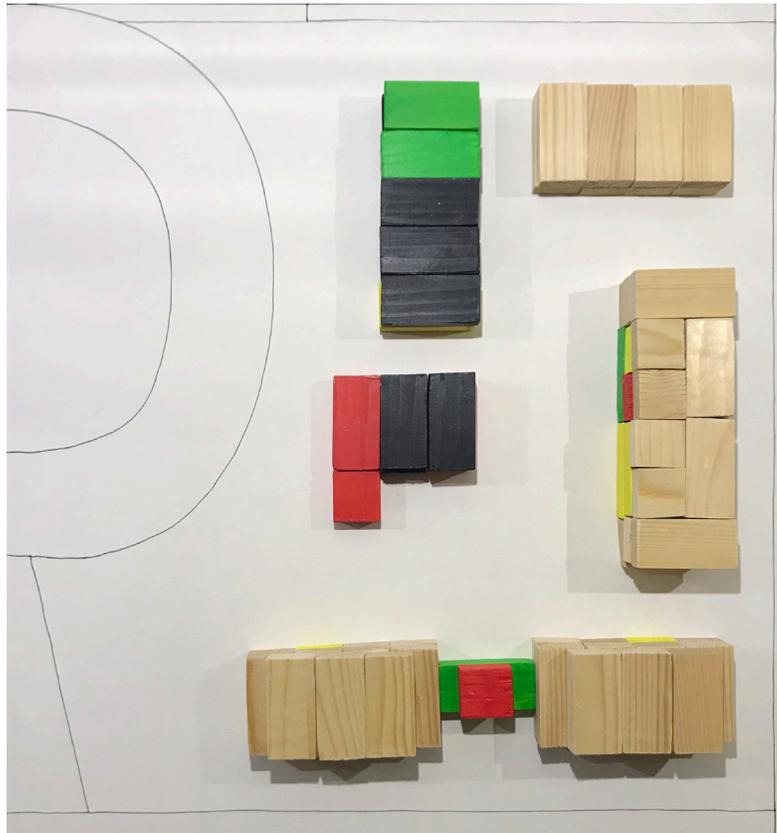
Optie 12

GOING BACK TO THE PROGRAM

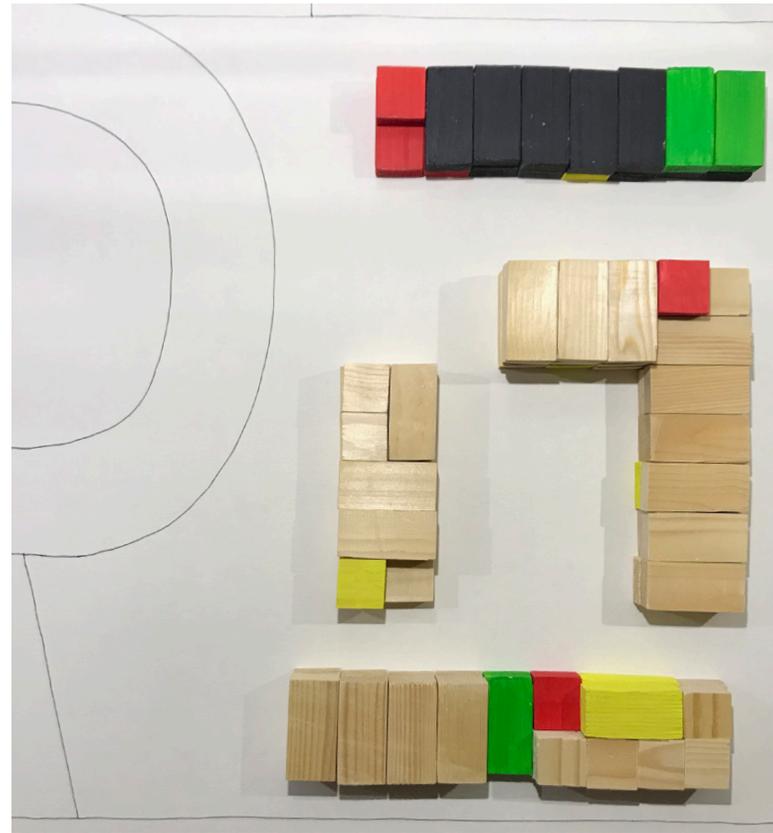
at scale 1:200



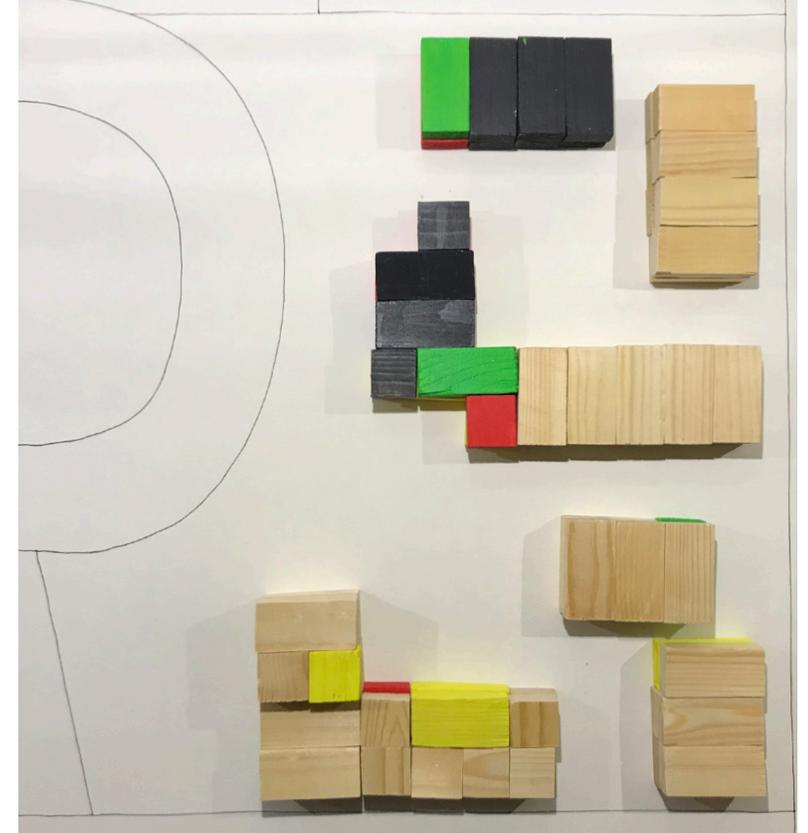
20 m



Optie 8



Optie 10

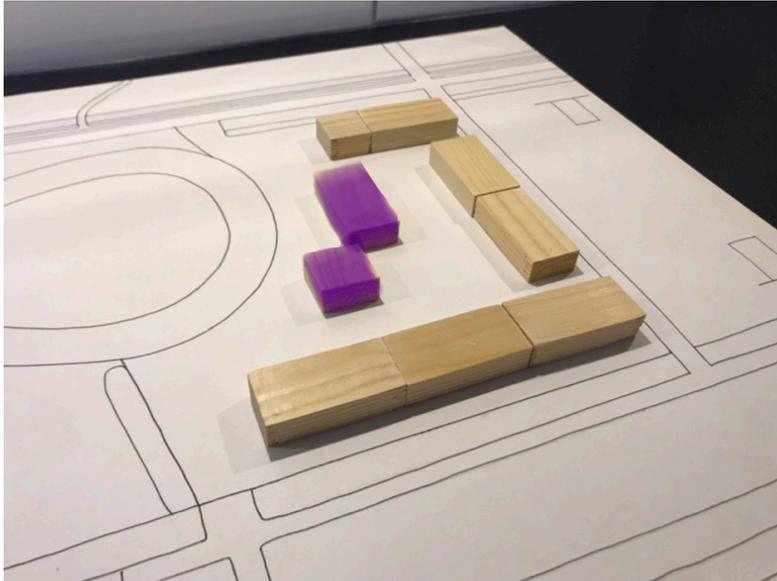


Optie 11

SELECTING FAVORITES MASSES

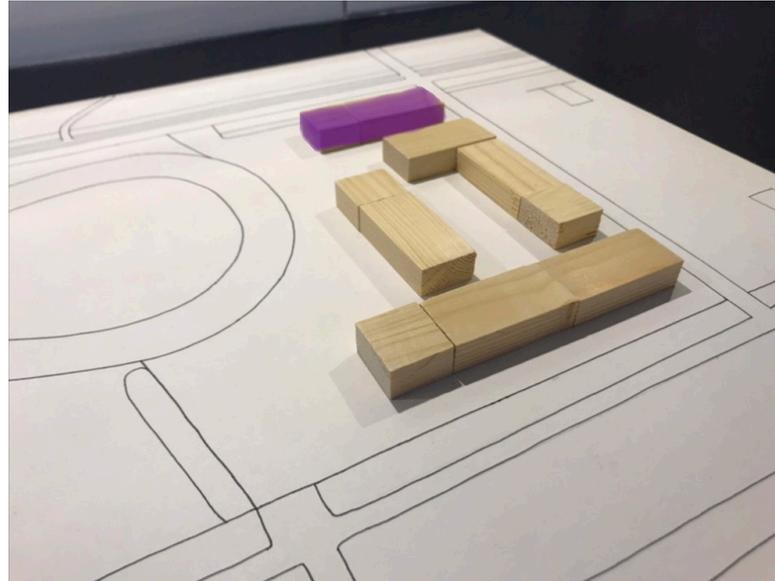
at scale 1:400

“Woonrand” [Living skirt]



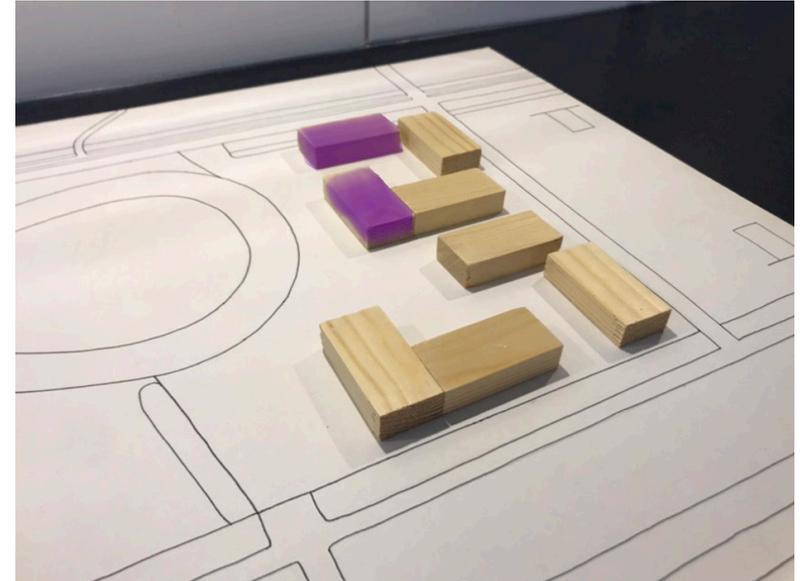
Optie 8

“Woonerf” [Living court]



Optie 10

“Gemixed wonen” [Mixed living]



Optie 11



No large crowds

K

Lively views from private dwelling

L

Understandable line between public & private

M

Different nooks

N

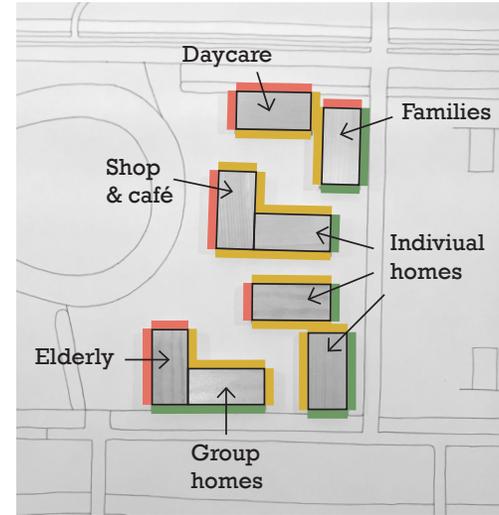
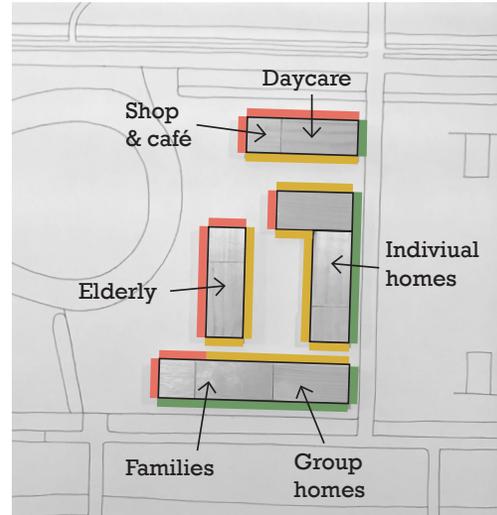
Social greenery outdoors

E

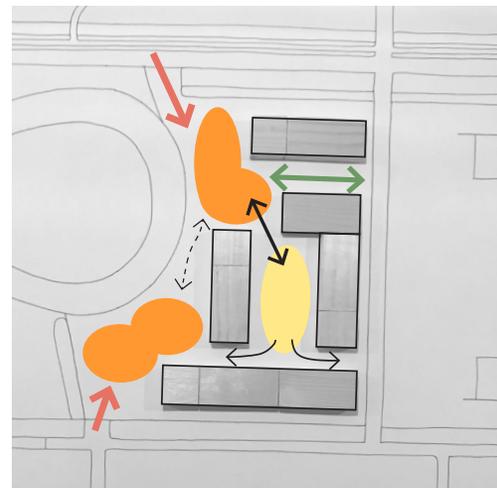
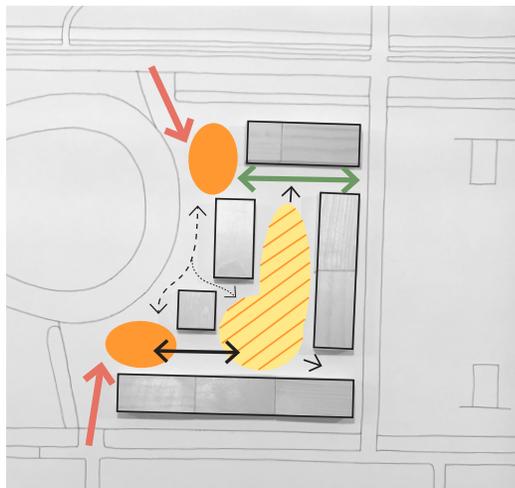
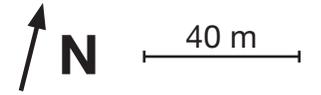
“Woonrand” [Living skirt]

“Woonerf” [Living court]

“Gemixed wonen” [Mixed living]



- Busy public side
- In between
- Calm green side



- Lively
- Private
- Semi

COMPARING THE CONCEPTS

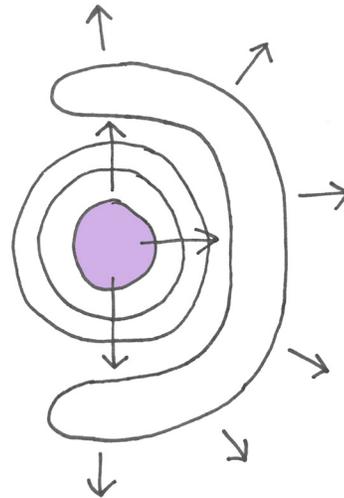
PRECONDITIONS:

CONNECT WITH OTHERS

AVOID OVERSTIMULATION

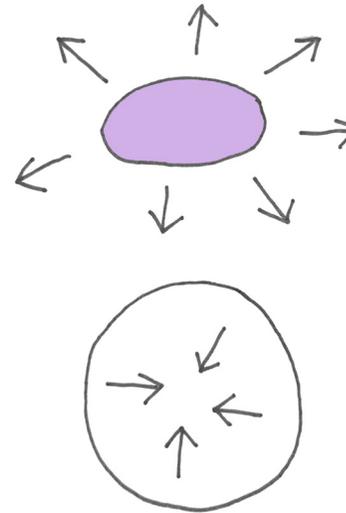
CLEAR & STRUCTURED

“Woonrand”
[Living skirt]



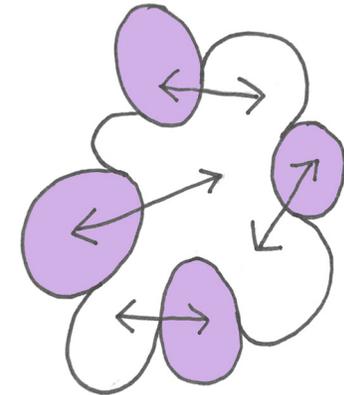
- “Hidden” public space
- Calm but little shelter
- Clear difference

“Woonerf”
[Living court]



- Obvious public space
- Calmer living court
- Clear difference

“Gemixed wonen”
[Mixed living]



- Interesting public space
- Calmer nooks possible
- No clear difference

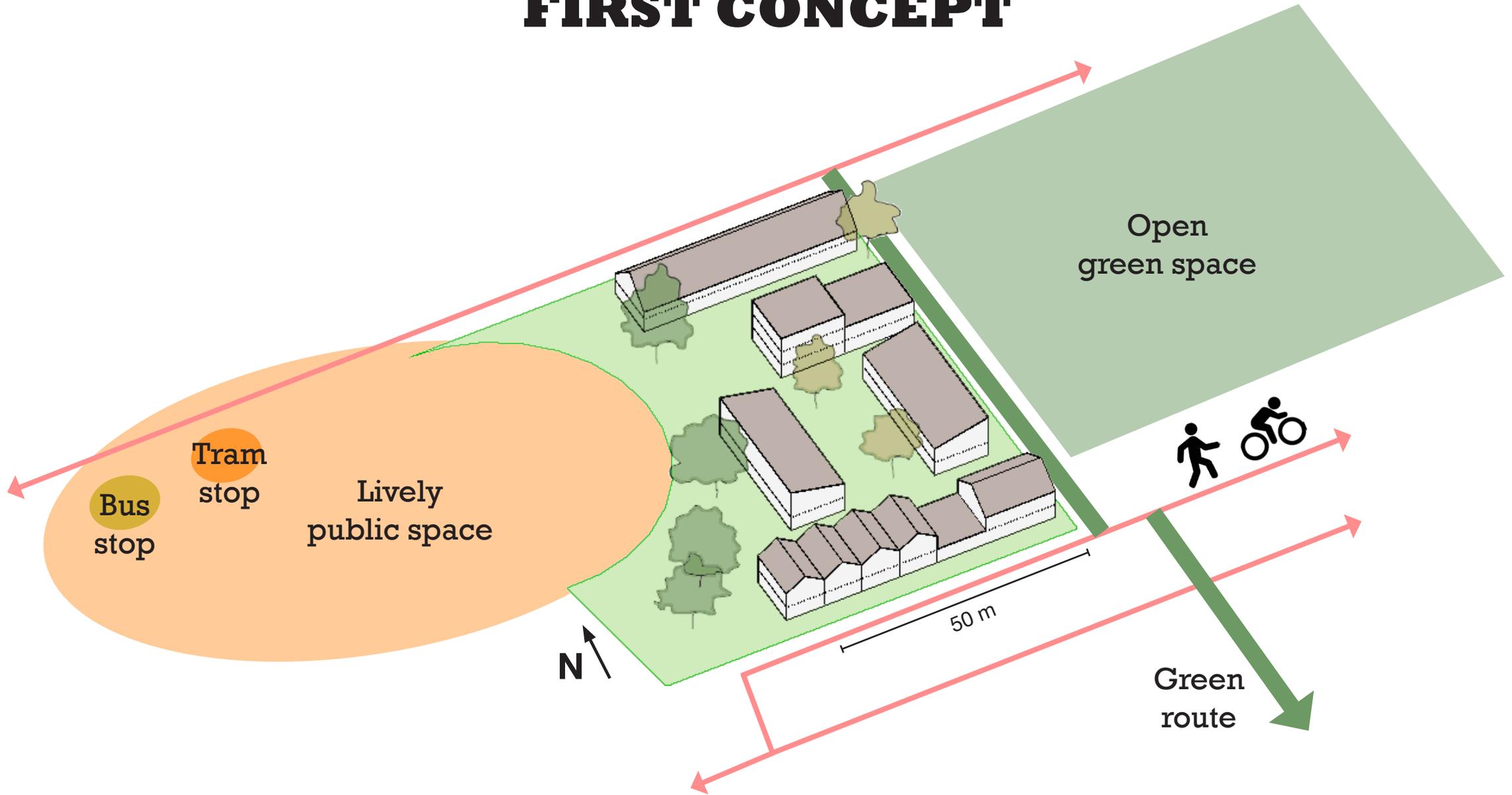


Public



Private

FIRST CONCEPT



CONTENT



Introduction

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Design guidelines

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living environment

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requirements &
mass studies

Explaining the
final concept

Elaboration

Surroundings

Building program
in plans & facades

Daycare
Group homes
Individual homes
Rest of inclusive
neighbourhood

Technology

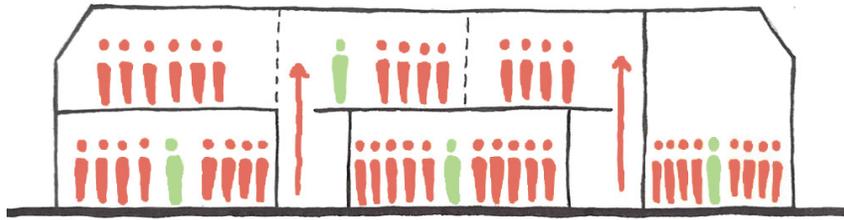
Sustainability

Climate

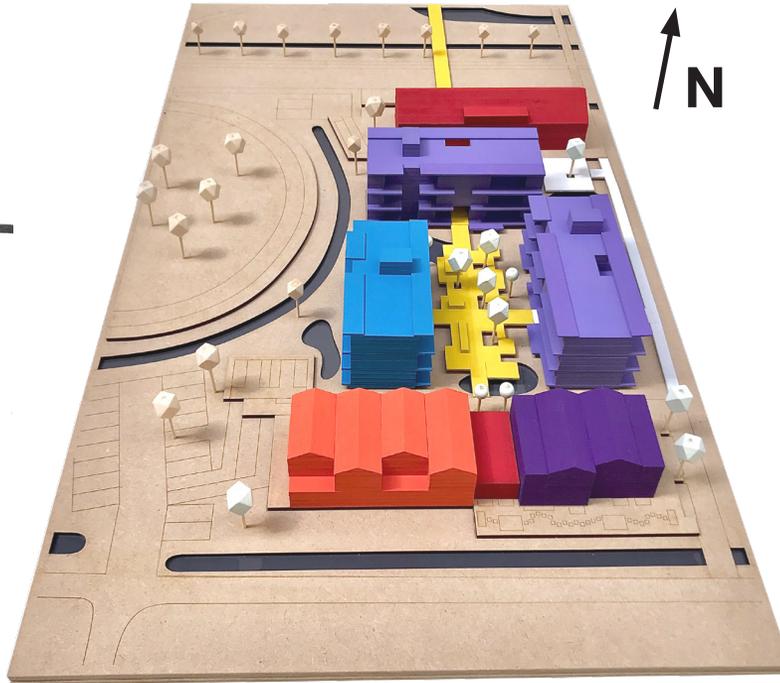
Construction

Fragment & detail

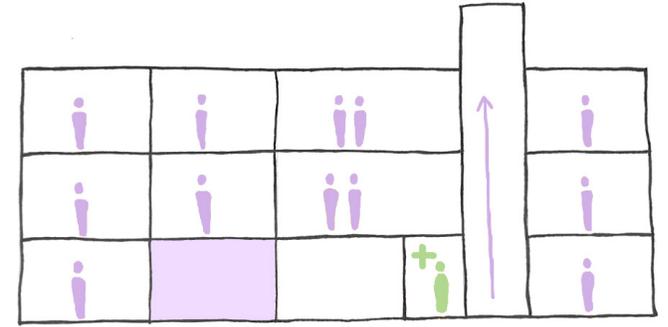
PROGRAM & TARGET GROUPS (Guideline H & I)



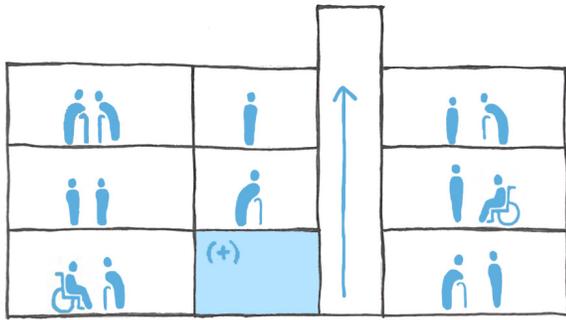
Daycare facility



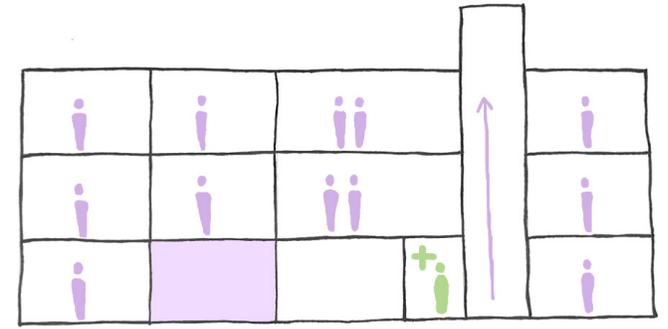
(Model scale 1:200)



Individual apartments MID

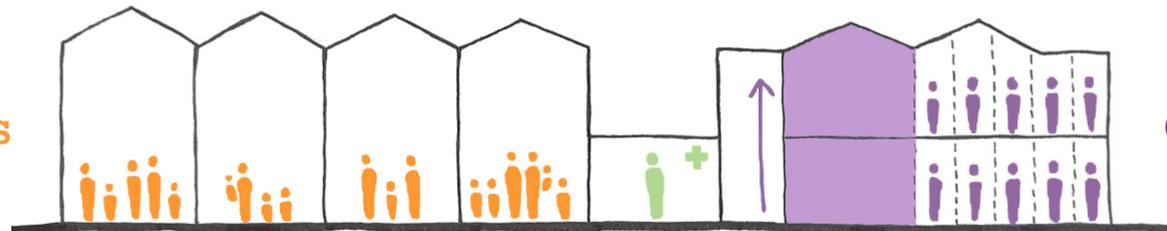


Elderly apartments



*MID care/support staff

Family houses



Group homes MID

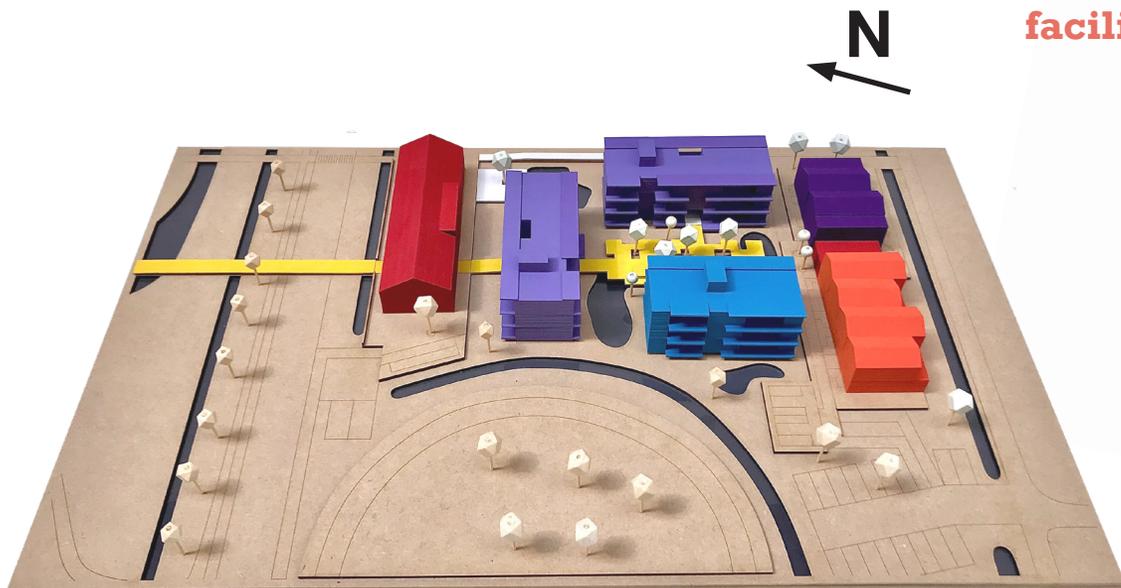
PLOT CONCEPT

PRECONDITIONS:

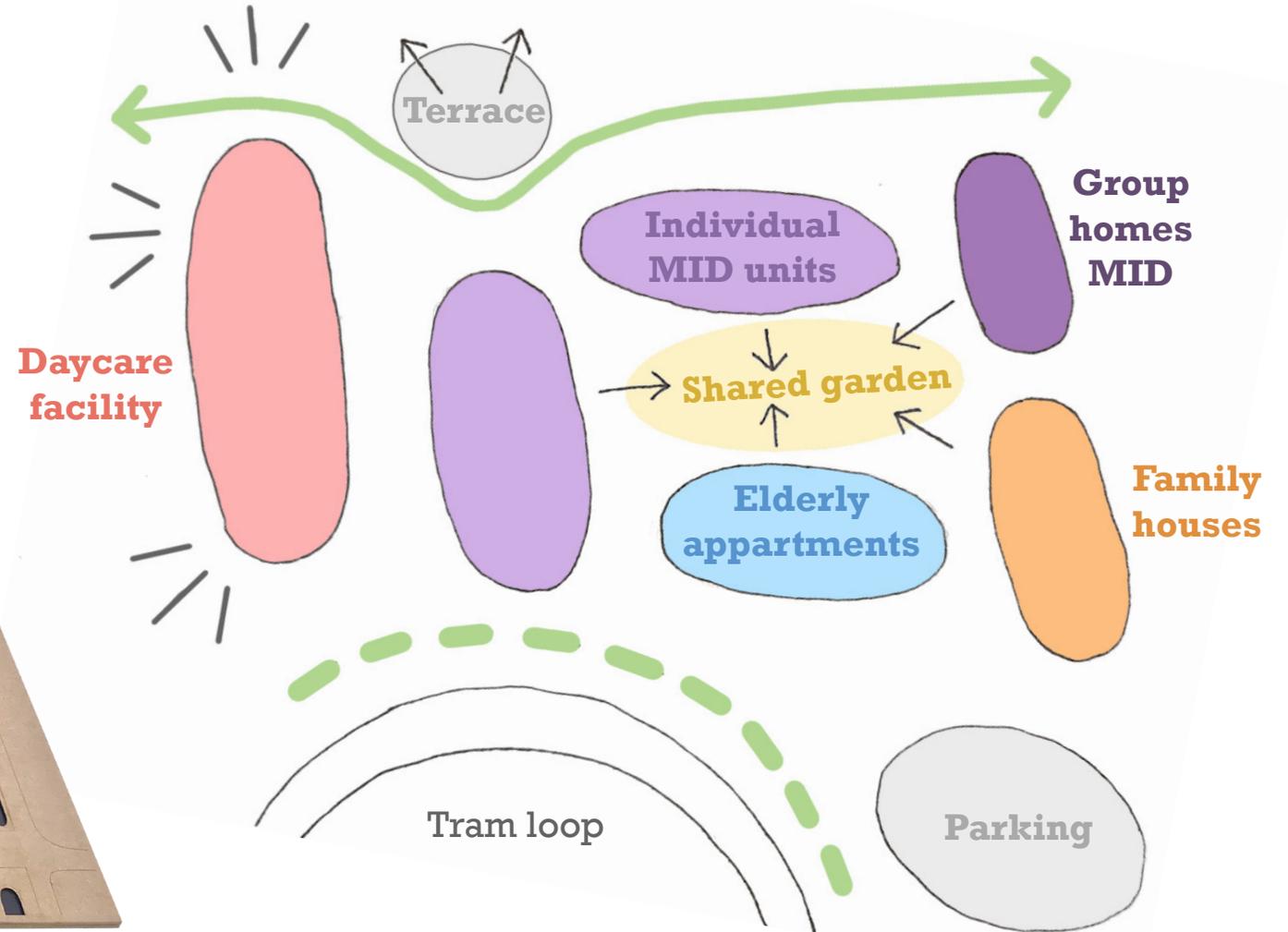
CONNECT WITH
OTHERS

AVOID
OVERSTIMULATION

CLEAR &
STRUCTURED



(Model scale 1:200)



FORM CONCEPT

PRECONDITIONS:

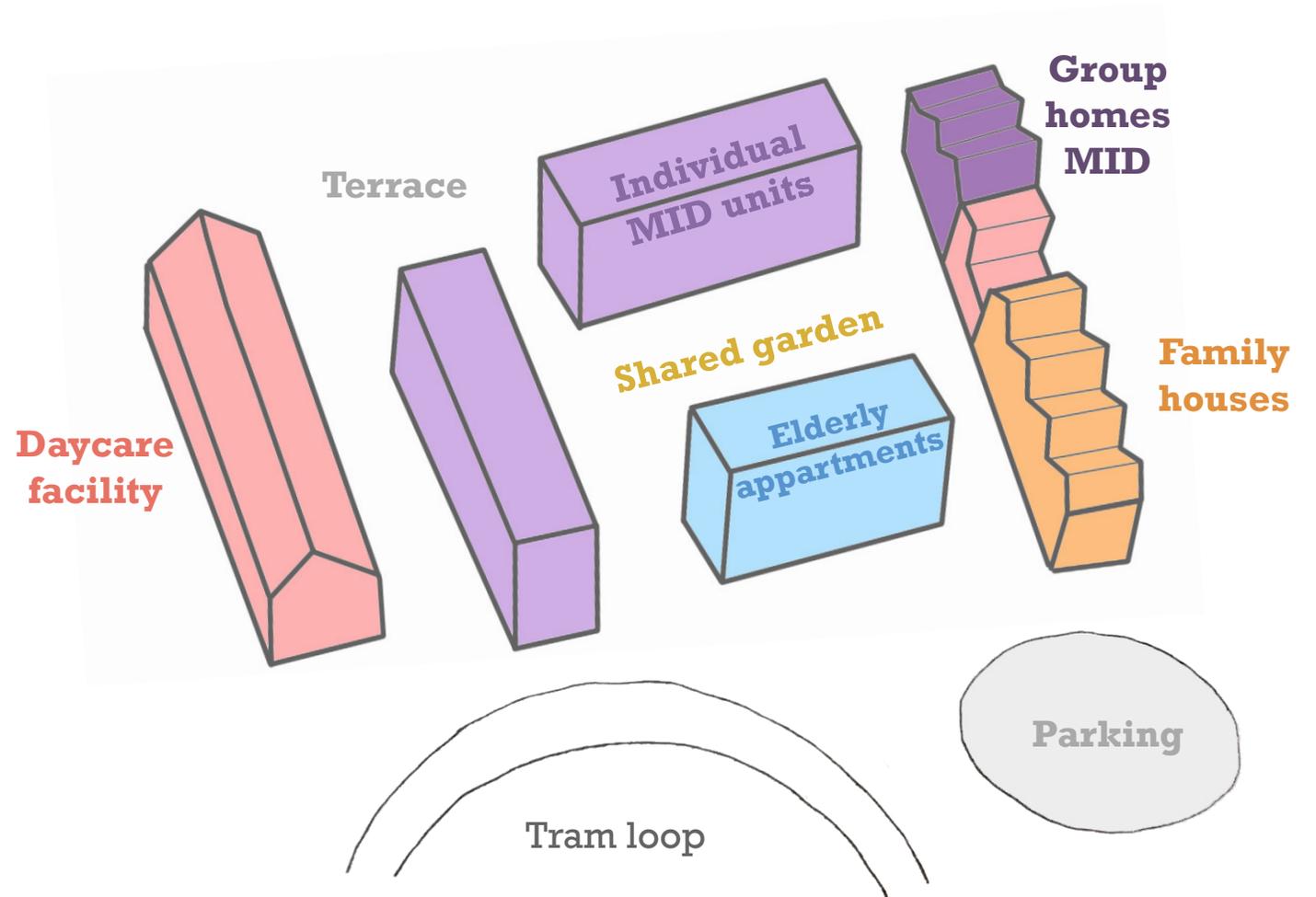
CONNECT WITH
OTHERS

AVOID
OVERSTIMULATION

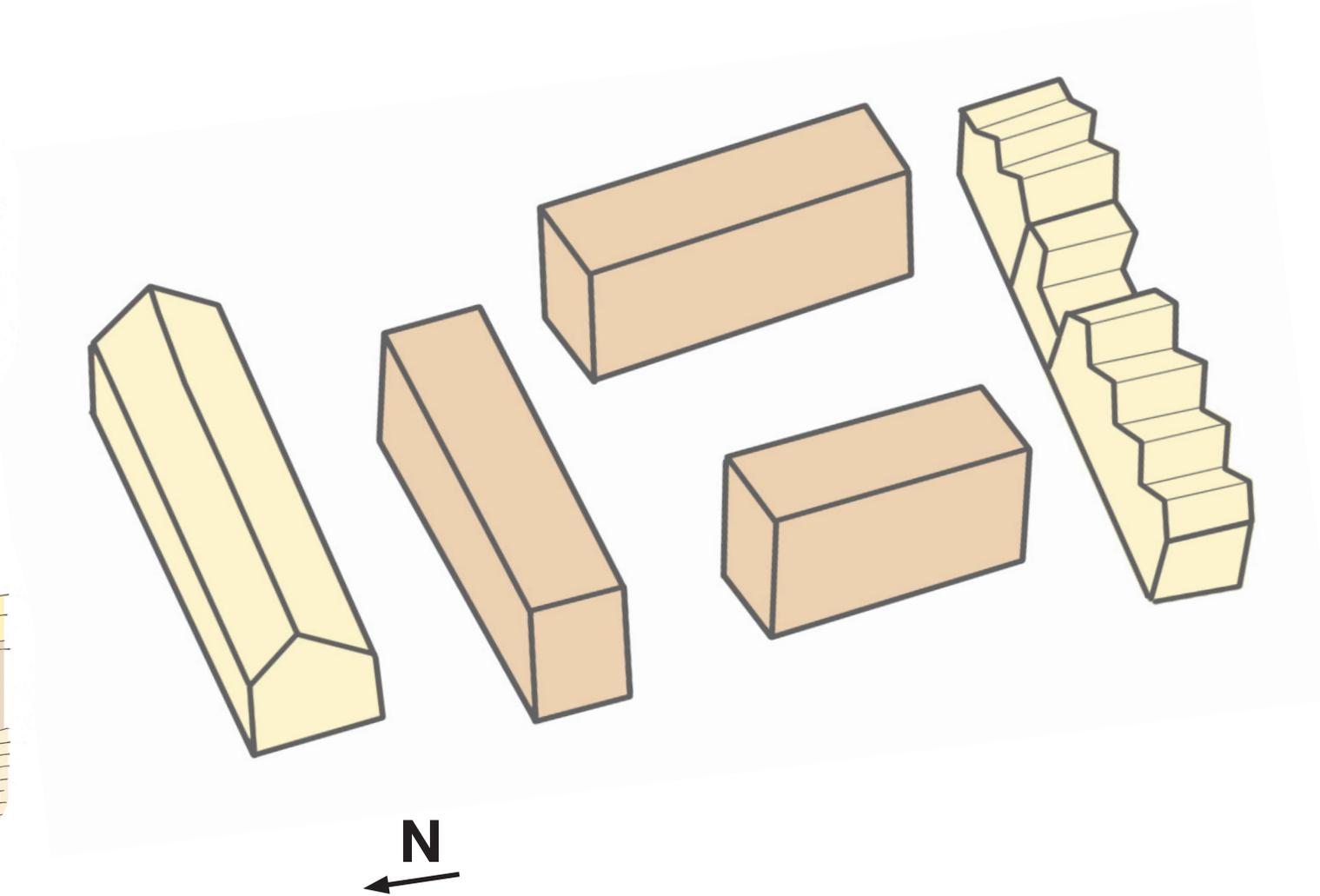
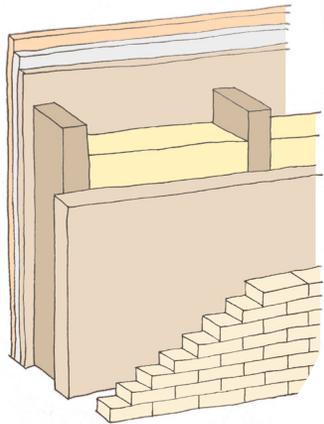
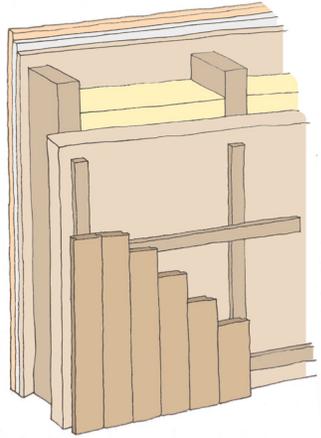
CLEAR &
STRUCTURED



(Model scale 1:200)



BUILDING MATERIAL CONCEPT (Guideline I)

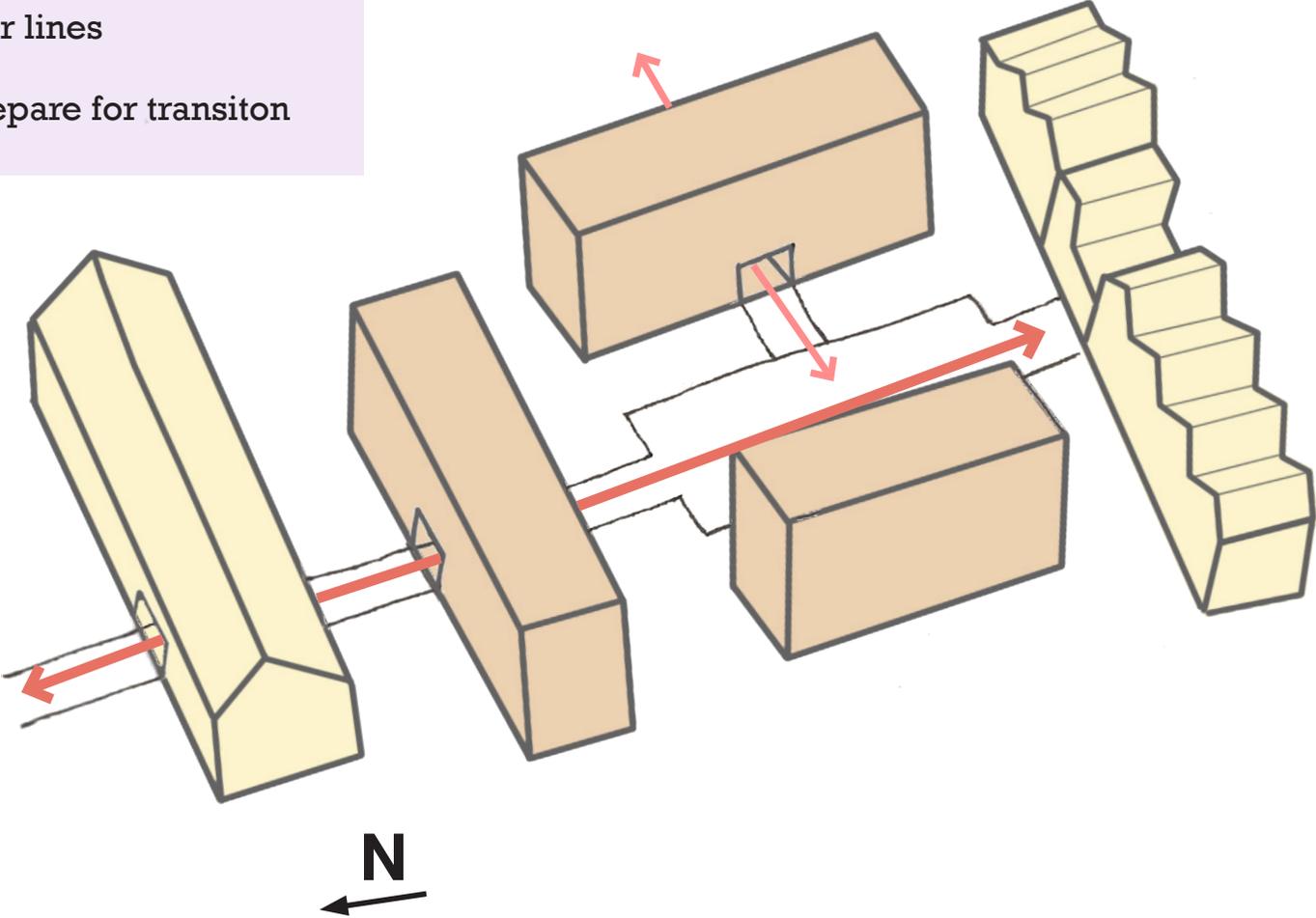


CONNECTING THE BLOCKS

(Guideline J)

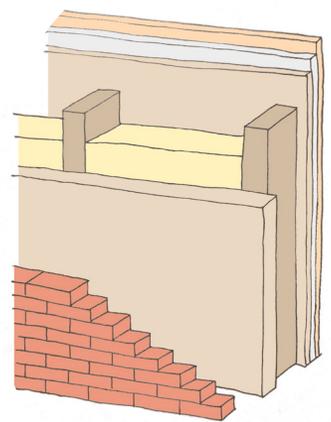
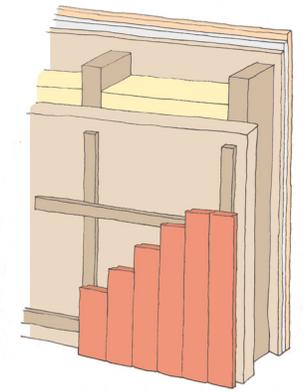
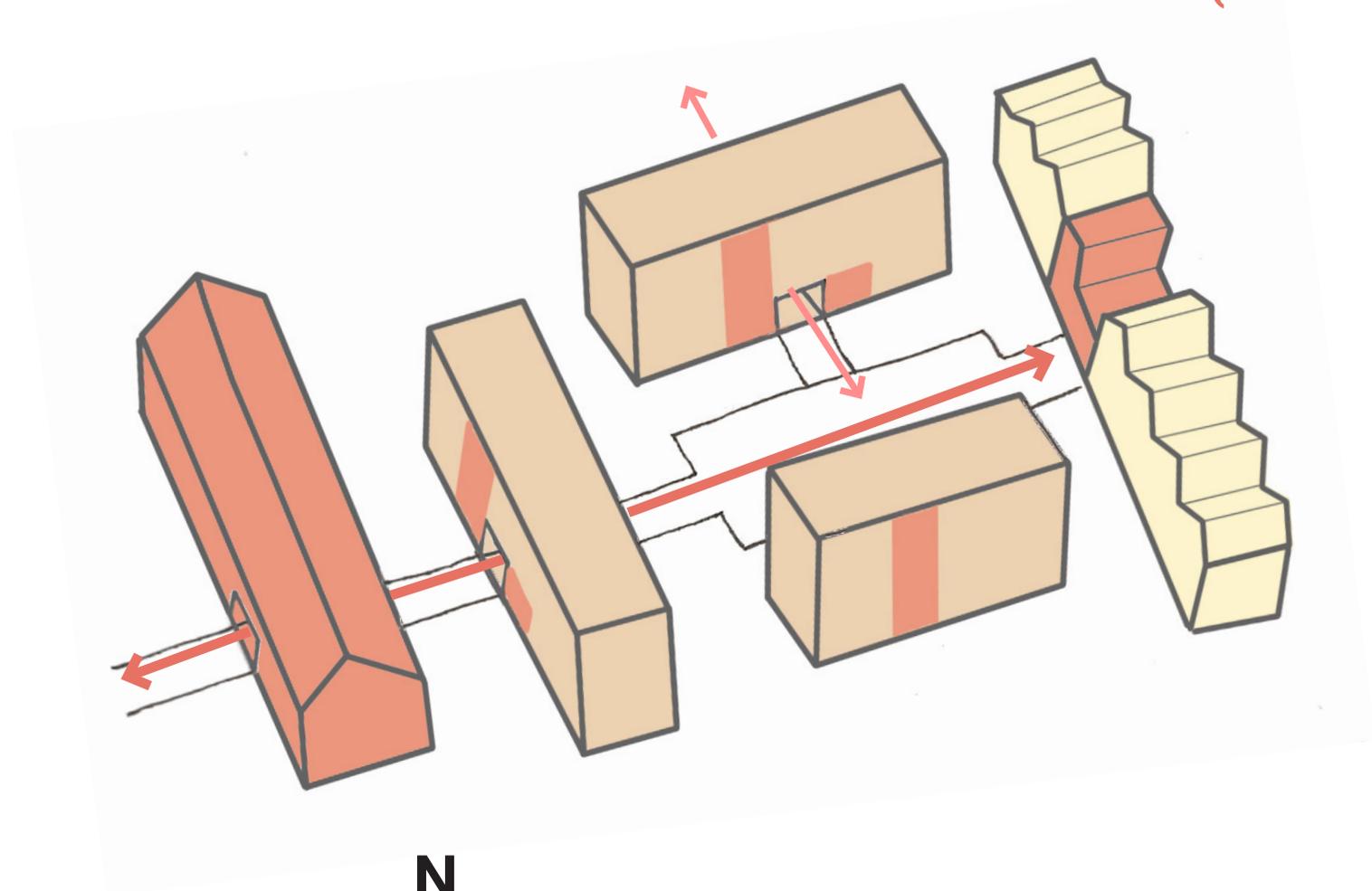
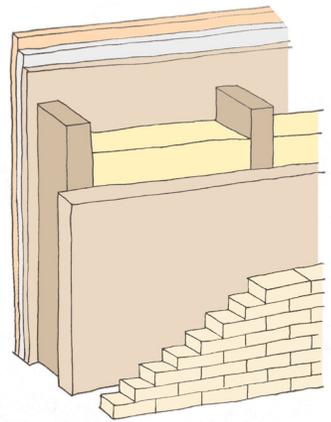
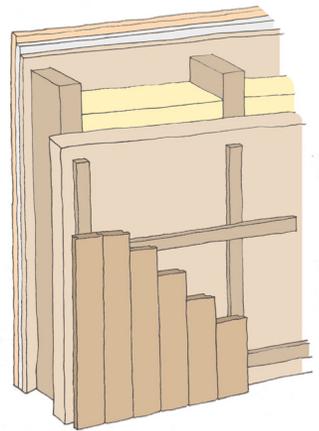
Specifically for MID

- Predictable clear lines
- 🕒 Extra time to prepare for transiton



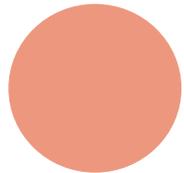
VISIBILITY PUBLIC/SHARED SPACES

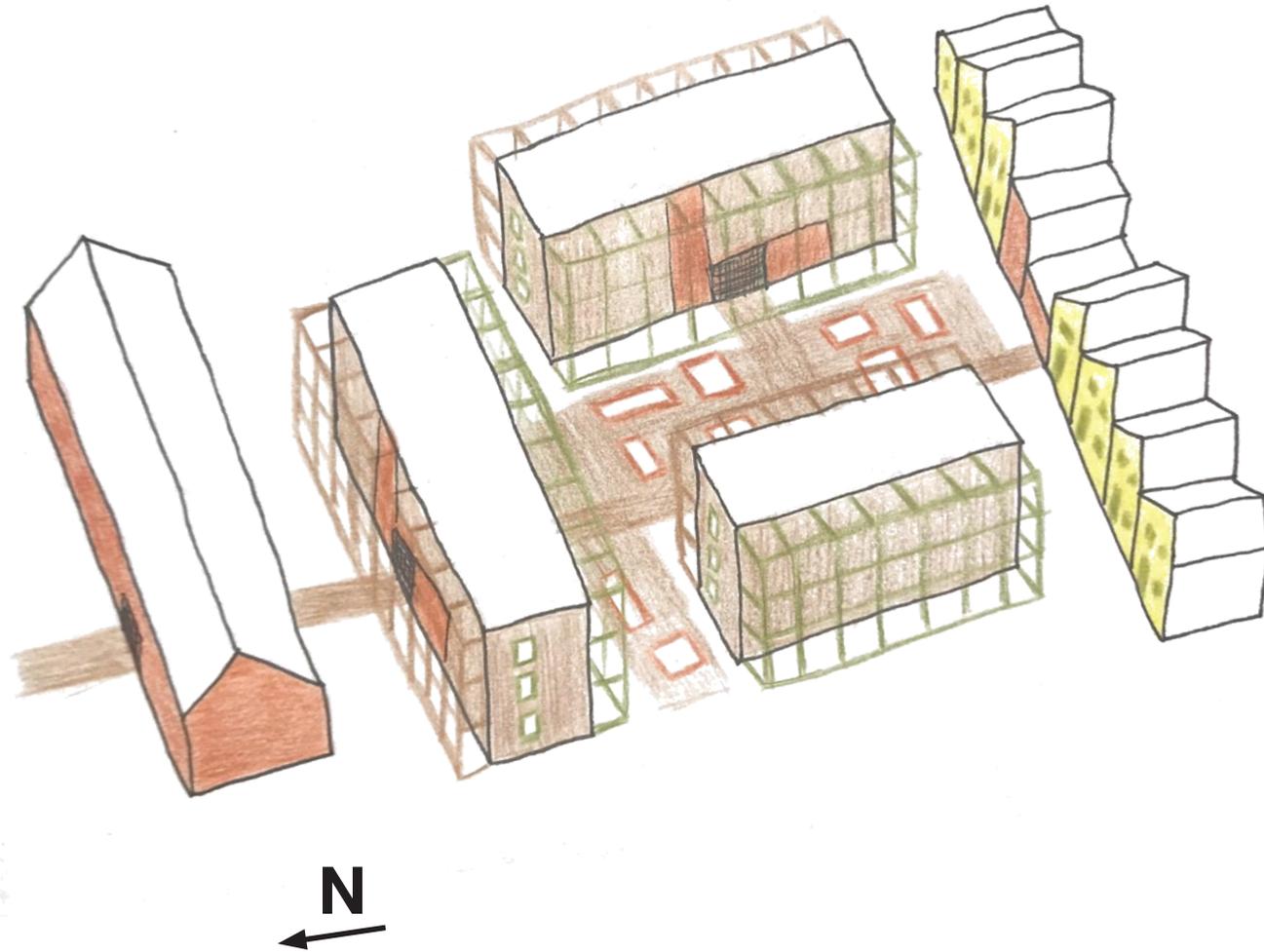
(Guideline M)



CALM VS LIVELY FACADE EXPRESSION

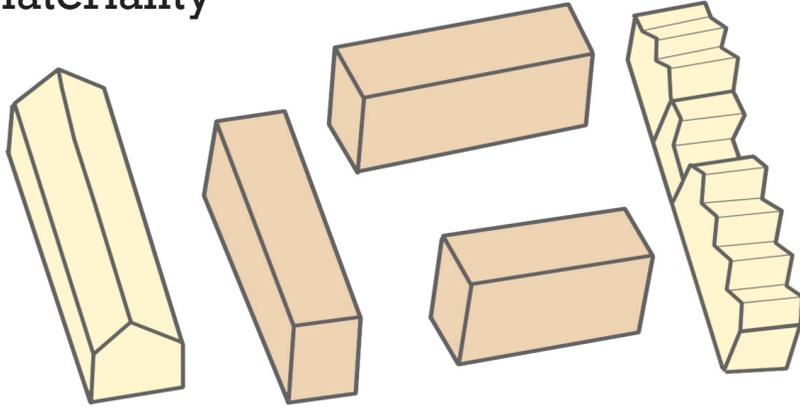
(Guideline M)

-  Private
-  Public
-  Neutral
-  Neutral

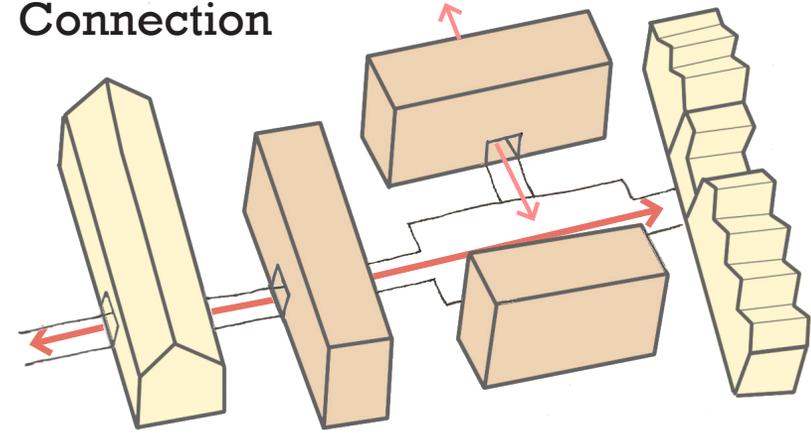


ARCHITECTURAL CONCEPT

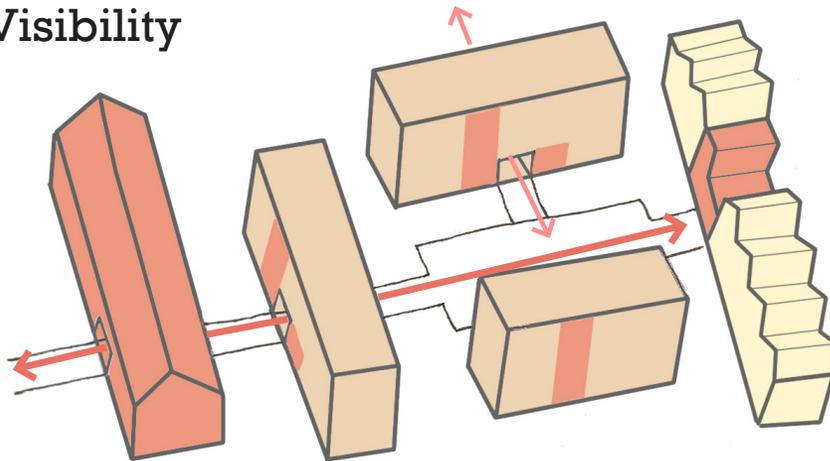
Materiality



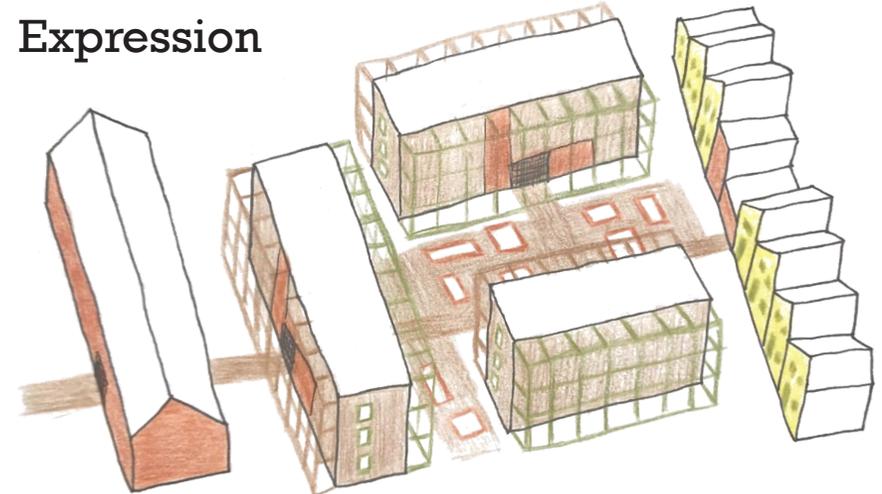
Connection



Visibility



Expression



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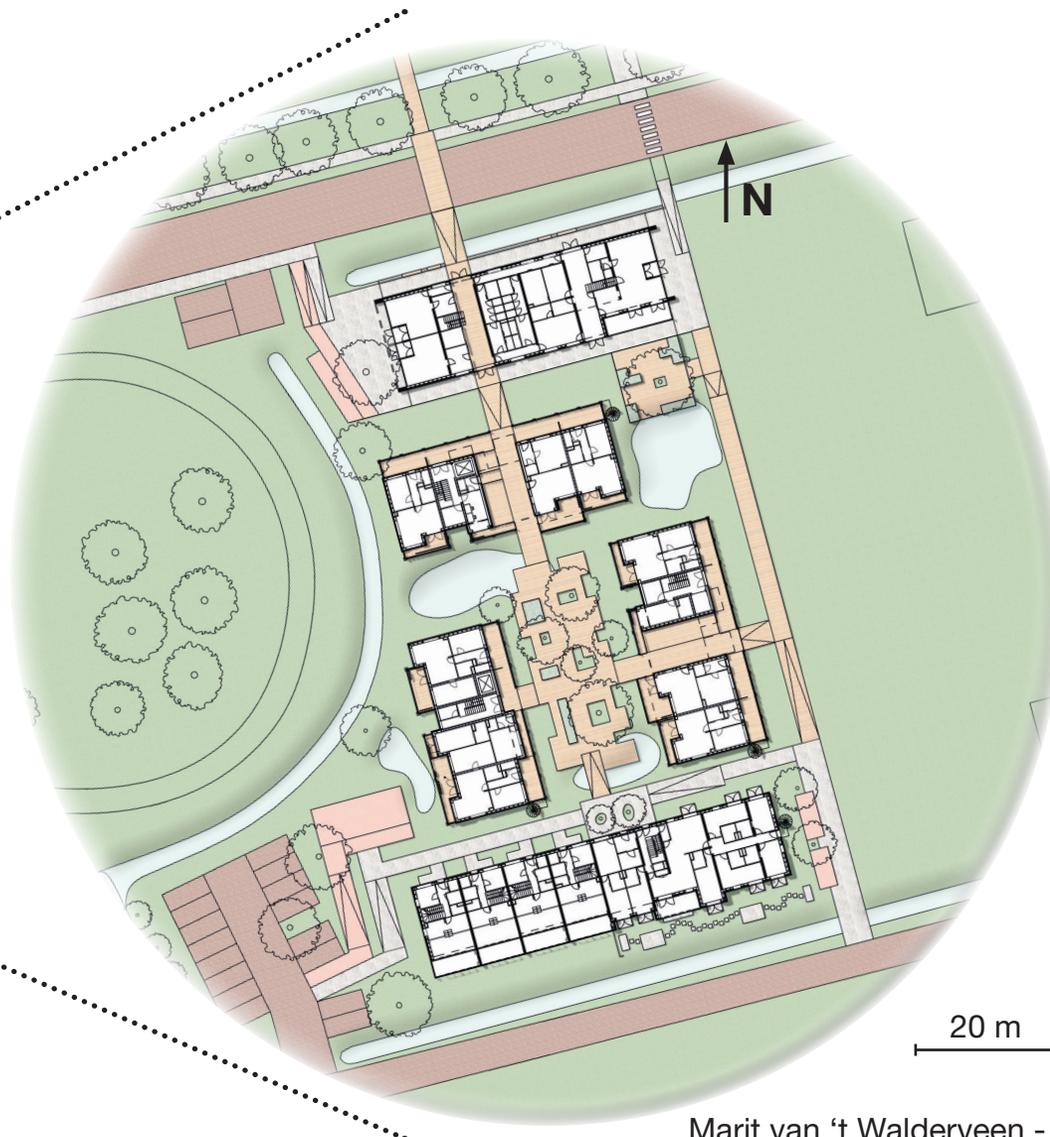
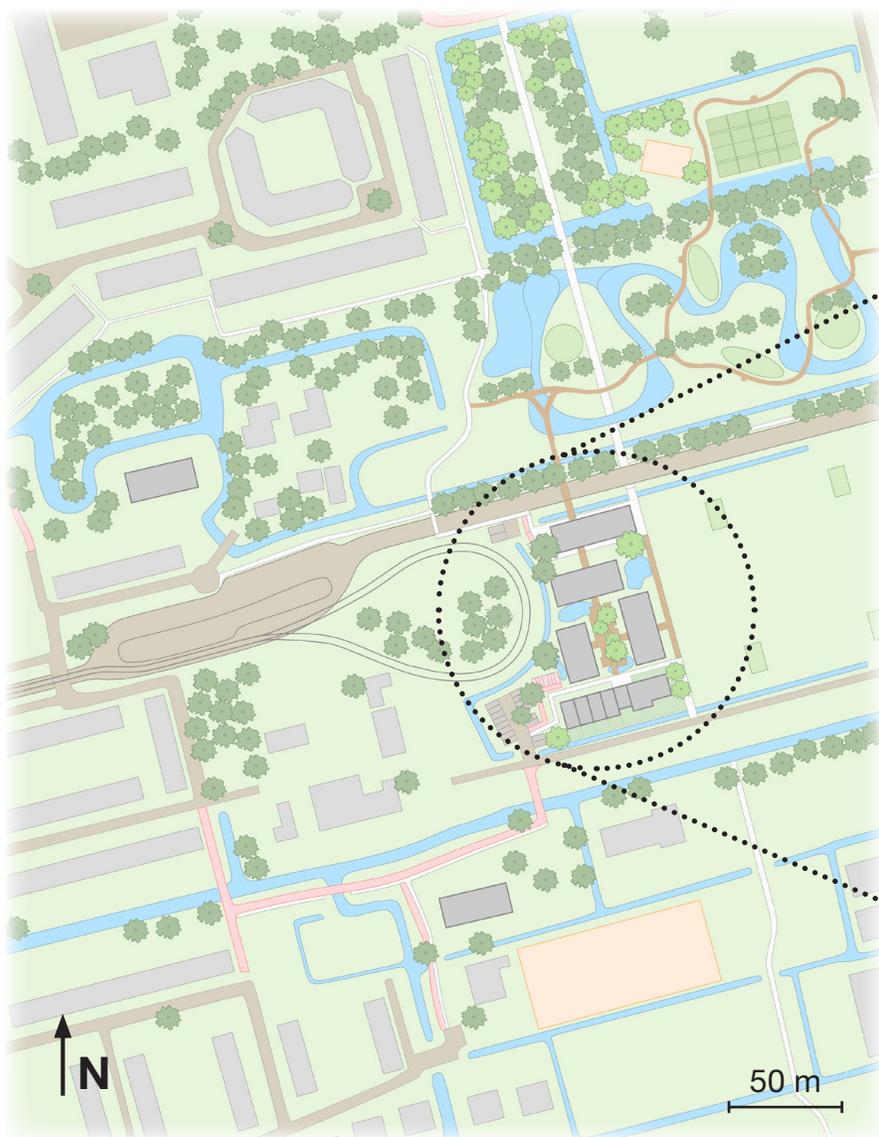
Fragment & detail

PLOT OVERVIEW



Materiality
Connection
Visibility
Expression

LOCATION & SITUATION PLAN (Guideline N)



STRENGTHENING BIODIVERSITY

Invoeren Ontdek Projecten Over ons

Delft - Tanthof Nederland

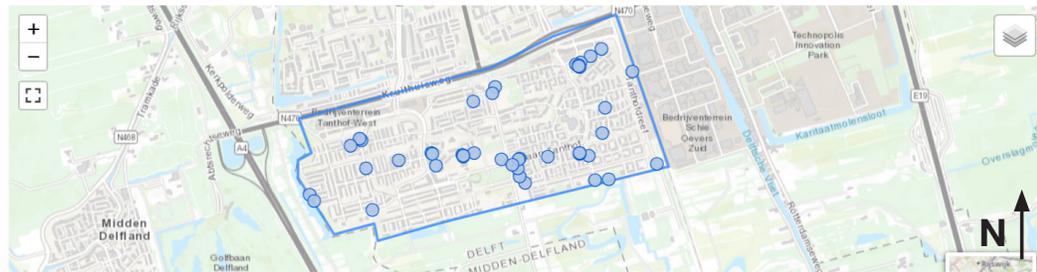
Details Waarnemingen Foto's Geluiden Soorten gezien Ranglijst waarnemers Projectbezoeken

2023-02-18 - 2024-02-18 Selecteer een soort Alle soortgroepen **>= zeldzaam**

Zoek Filter Wis filters Als tabel Toon geavanceerd

Waarnemer Alle geslachten Alle maanden Alleen goedgekeurd Toon nul-waarnemingen Alleen onzeker Alle levensstadia

Alle activiteiten Alle methodes



Beschermde natuur in Nederland: soorten en gebieden in wetgeving en beleid

Soorten

Home > Soorten > Rode lijsten

Rode lijsten

Een Rode lijst is een overzicht van soorten die uit Nederland zijn verdwenen of dreigen te verdwijnen. Dit wordt bepaald op basis van zeldzaamheid en/of negatieve trend. De lijsten worden periodiek vastgesteld door de Minister van Economische Zaken. De Minister bevordert onderzoek en werkzaamheden nodig voor bescherming en beheer. Rode lijsten hebben geen juridische status. Voor meer informatie: [website rijksoverheid](#).

Categorieën

> **Rode lijsten: soort van Rode Lijst Amfibieën**
Soort staat vermeld op de Rode Lijst voor de soortgroep amfibieën. De mate van bedreiging is verdeeld over de volgende categorieën: verdwenen uit Nederland, ernstig bedreigd, bedreigd, kwetsbaar, gevoelig. Wilt u weten de mate van bedreiging van een soort weten? Klik dan op de soort.

STRENGTHENING BIODIVERSITY

Waarneming.nl

2023-02-18 - 2024-02-18

Selecteer een soort - Alle soortgroepen - **>= zeldzaam**

Filter Wis filters Als tabel Toon geavanceerd

Alle geslachten - Alle maanden - Alleen goedgekeurd Toon nul-waarnemingen Alleen onzeker - Alle levensstadia

Alle activiteiten - Alle methodes

Delft - Tanthof Nederland

Details Waarnemingen Foto's Geluiden Soorten gezien Ranglijst waarnemers Projectbezoeken

Midden-Delfland

Ministerie van Landbouw, Natuur en Voedselkwaliteit

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Waargenomen vogelsoorten die op de rode lijst staan:

Torenvalk
Slechtvalk
Boomvalk

Kleine zilver reiger
Grote Zilverreiger
(Purperreiger)

Slobeend
Smient
Wintertaling

Kwak
Klapekster
Roerdomp
Koekoek
Ransuil
Wielewaal
Groene Specht
Boerenzwaluw
Kneu
Visdief
Watersnip

20% of birds on the red list!!

STRENGTHENING BIODIVERSITY

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Invoeren Ontdek Projecten Over ons

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Ministerie van Landbouw, Natuur en Voedselkwaliteit

Beschermde natuur in Nederland: soorten en gebieden in wetgeving en beleid

Soorten

Home > Soorten > Rode lijsten

> Zoeken op soort

> Zoeken op wetgeving en beleid

Wetgeving

> Visserijwet

> Wet natuurbescherming (16 december 2015)

EU-regelingen

> CITES-verordeningen

> Habitatrichtlijn

> Vogelrichtlijn

> EU-exotenverordening (1143/2014)

Internationale verdragen en overeenkomsten

Rode lijsten

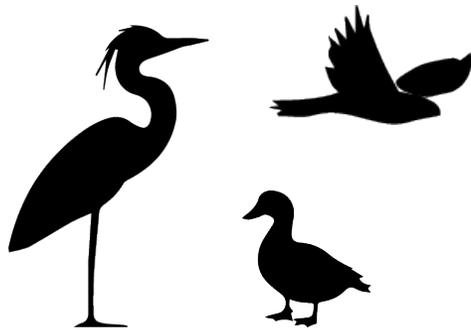
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20% of birds on the red list!!

STRENGTHENING BIODIVERSITY


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Projecten ▾
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Delft - Tanthof Nederland

Details
Waarnemingen
Foto's
Geluiden
Soorten gezien
Ranglijst waarnemers
Projectbezoeken

2023-02-18 - 2024-02-18
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Zoek Filter Wis filters Als tabel Toon geavanceerd

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Alle activiteiten ▾ Alle methodes ▾





Beschermde natuur in Nederland: soorten en gebieden in wetgeving en beleid

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[Home](#) > [Soorten](#) > Rode lijsten

Rode lijsten

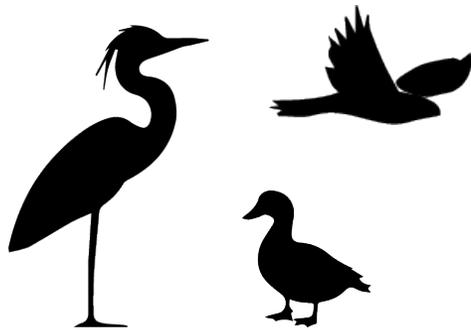
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- > Zoeken op soort
- > Zoeken op wetgeving en beleid
- Wetgeving
- > Visserijwet
- > Wet natuurbescherming (16 december 2015)
- EU-regelingen
- > CITES-verordeningen
- > Habitatrichtlijn
- > Vogelrichtlijn
- > EU-exotenverordening (1143/2014)
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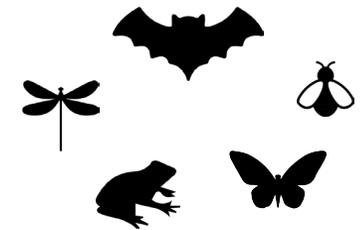


Torenvalk
Slechtvalk
Boomvalk

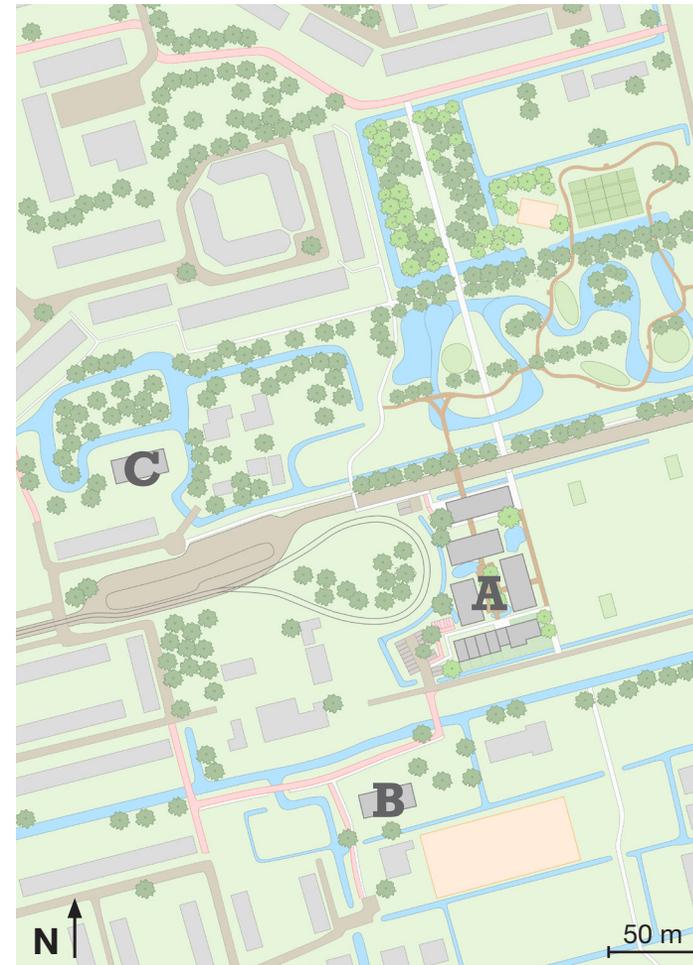
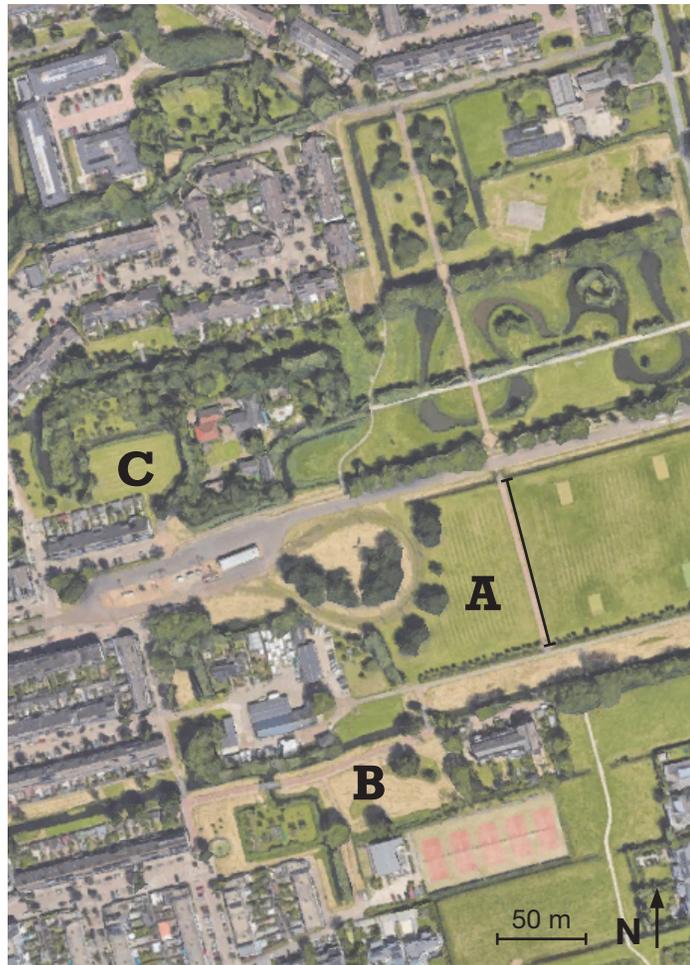
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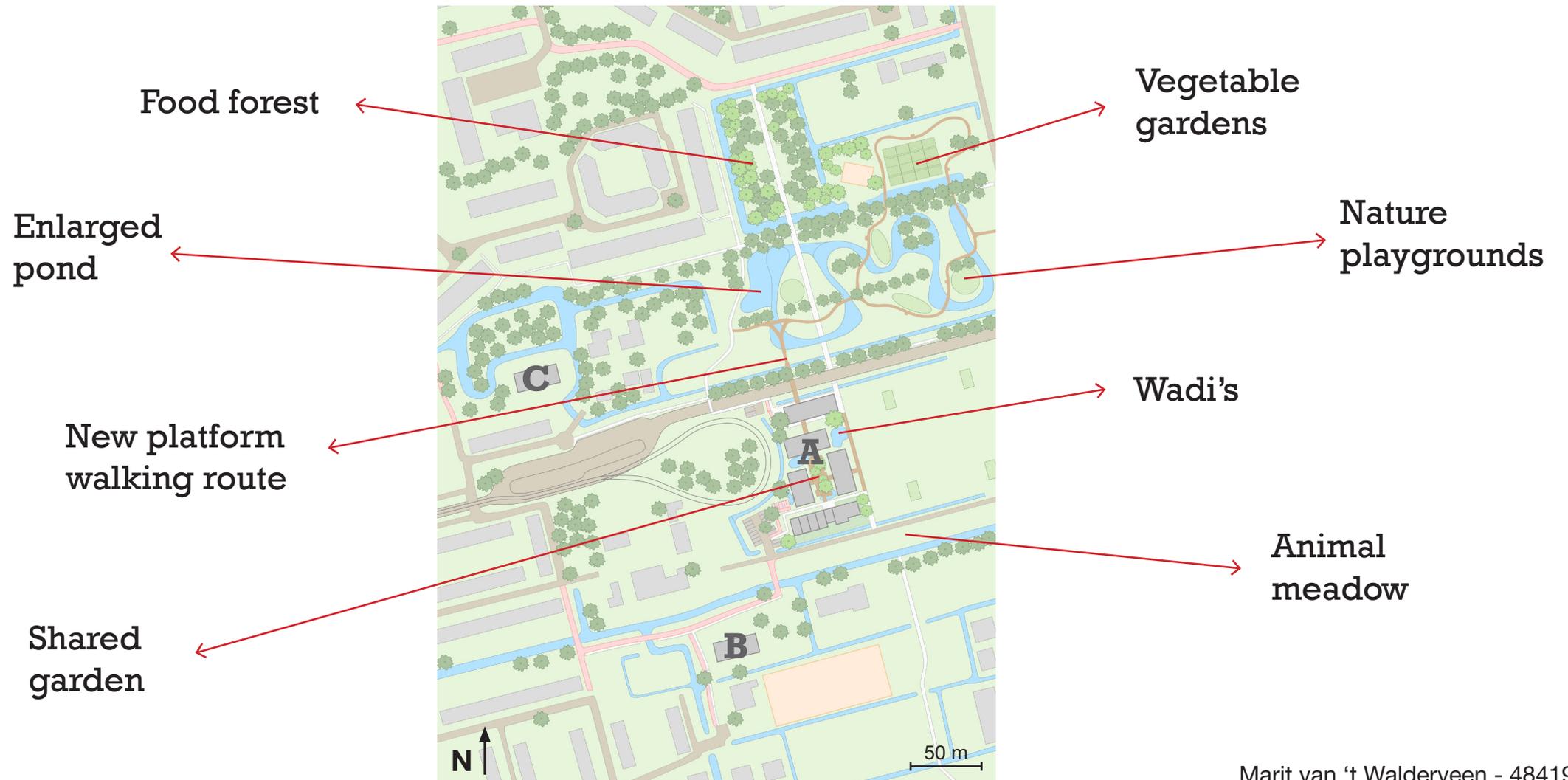


THE POTENTIAL OF NATURE FOR THE NEIGHBOURHOOD



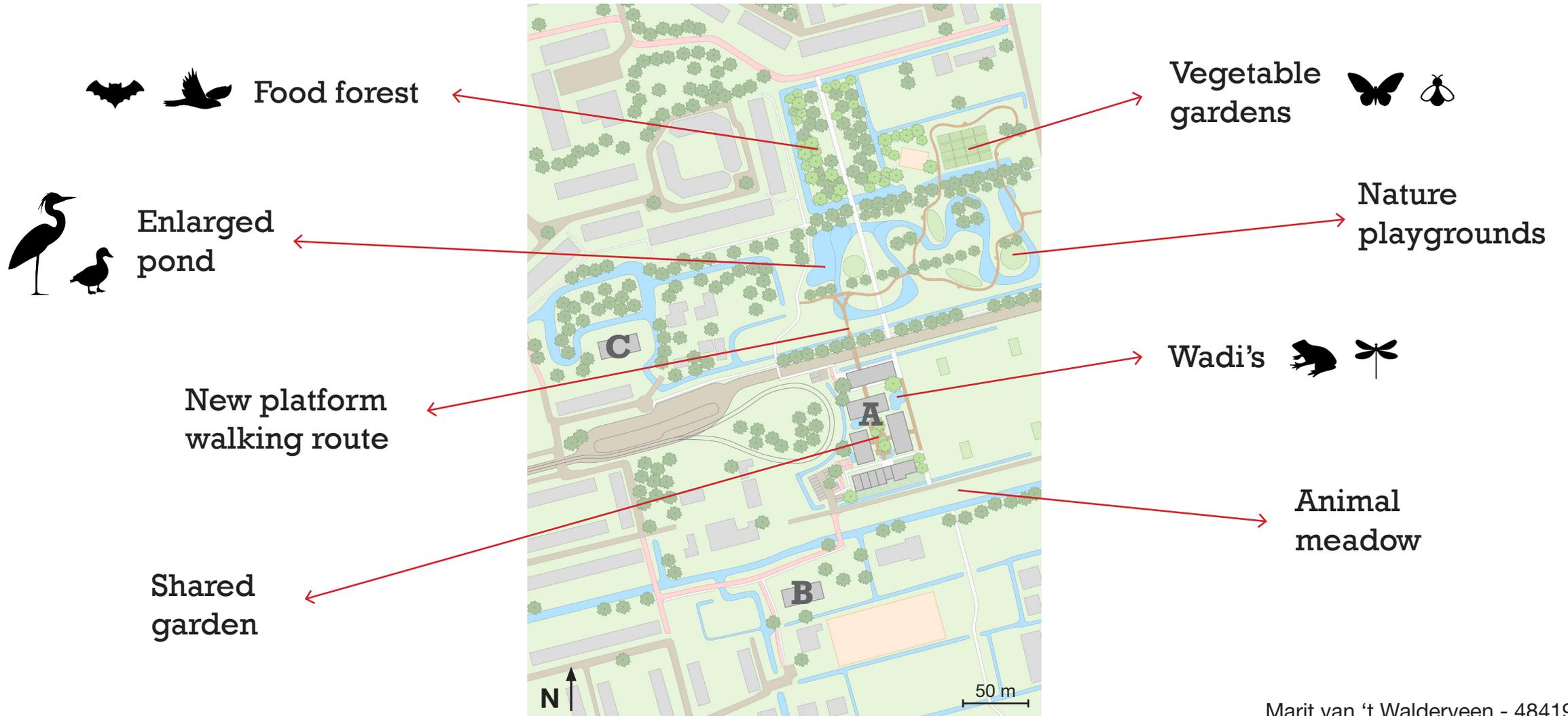
THE POTENTIAL OF NATURE FOR THE NEIGHBOURHOOD

(Guidelines A, D, E & N)

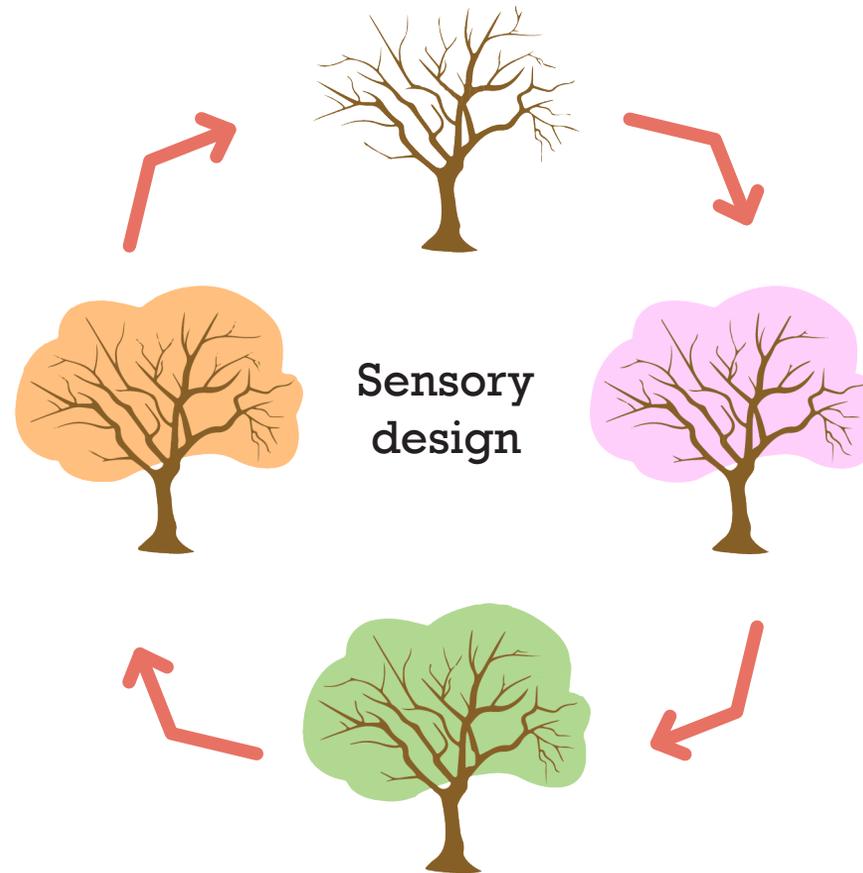


THE POTENTIAL OF NATURE FOR THE NEIGHBOURHOOD

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THE POTENTIAL OF NATURE FOR THE NEIGHBOURHOOD

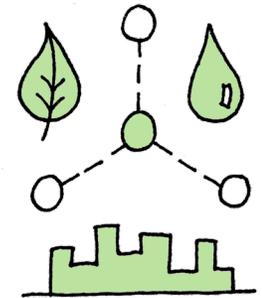


THE POTENTIAL OF NATURE FOR THE NEIGHBOURHOOD



Literally and figuratively in Dutch:
“De vruchten plukken”

Literally meaning **“to pick the fruits”**
and figuratively meaning **“to benefit”**



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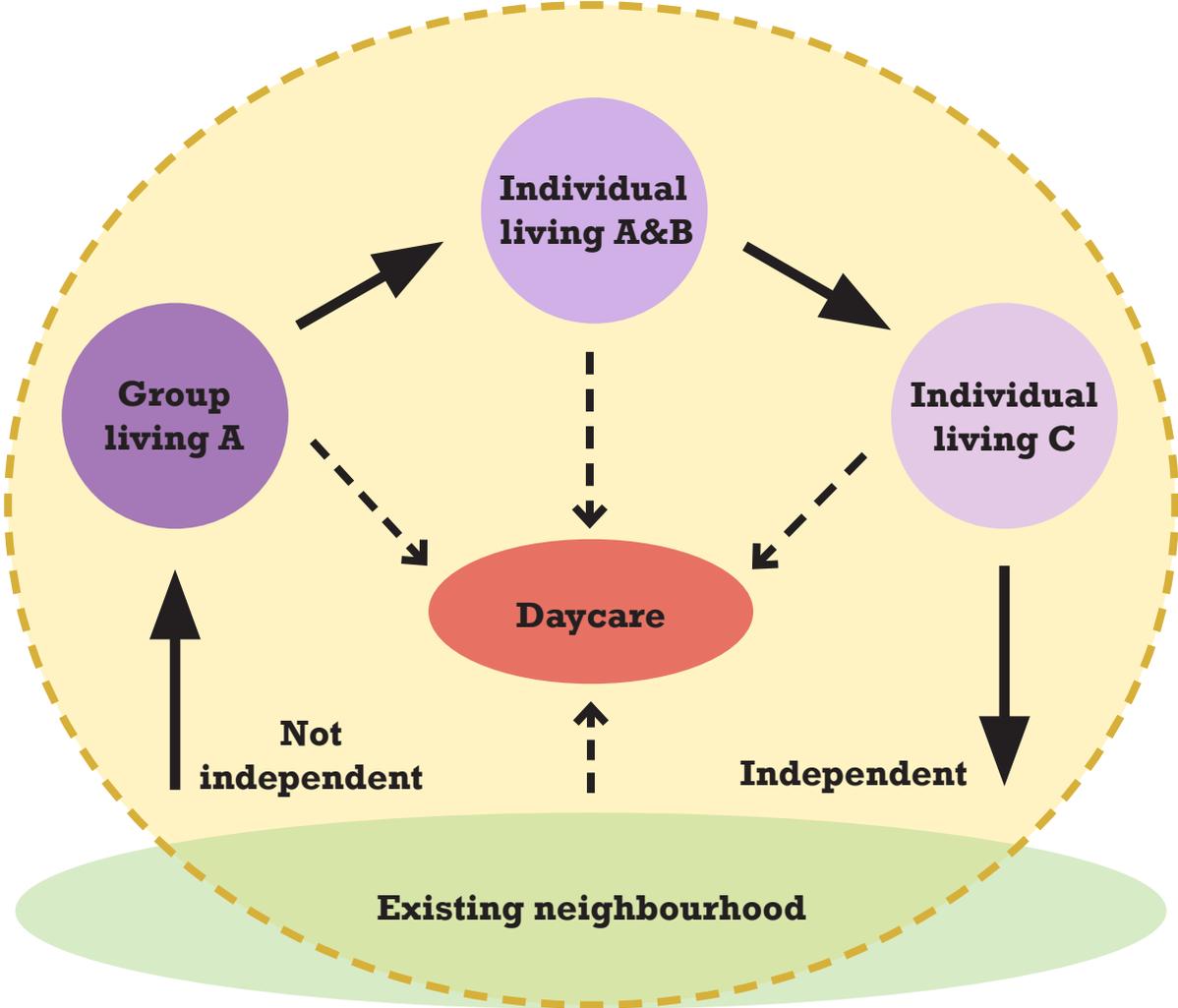
Sustainability

Climate

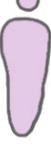
Construction

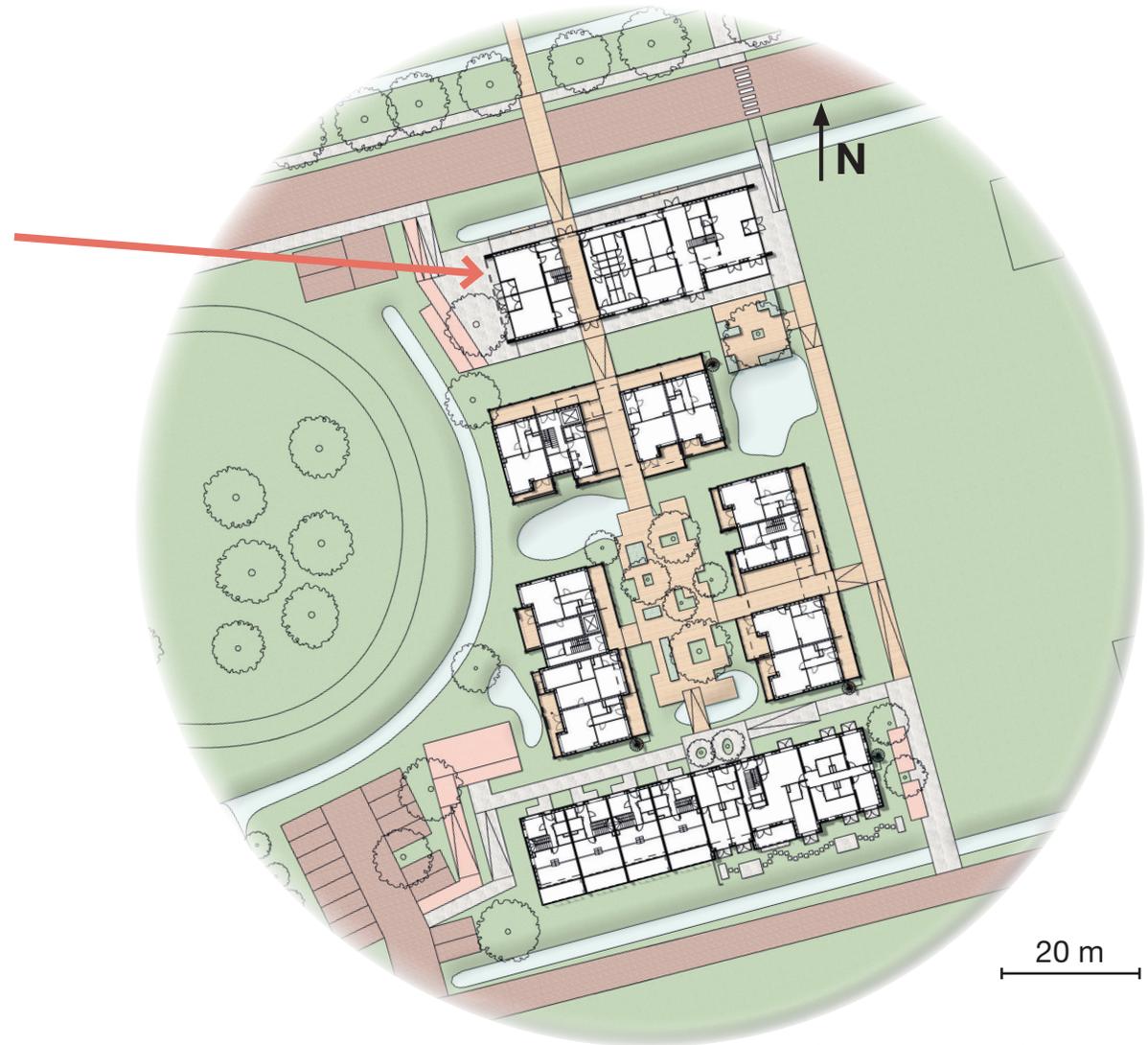
Fragment & detail

DAYCARE FACILITY (Guideline G)



DAYCARE FACILITY (Guideline G)

-  Living in existing neighbourhood (current situation)
-  Living in existing neighbourhood & working at the daycare facility
-  Living in group home at location A (& working at the daycare facility)
-  Living in individual unit at location A or B (& working at the daycare facility)
-  Living in individual unit at location C (& working at the daycare facility)
-  Living independently in existing neighbourhood (& working at the daycare facility)



DAYCARE FACILITY



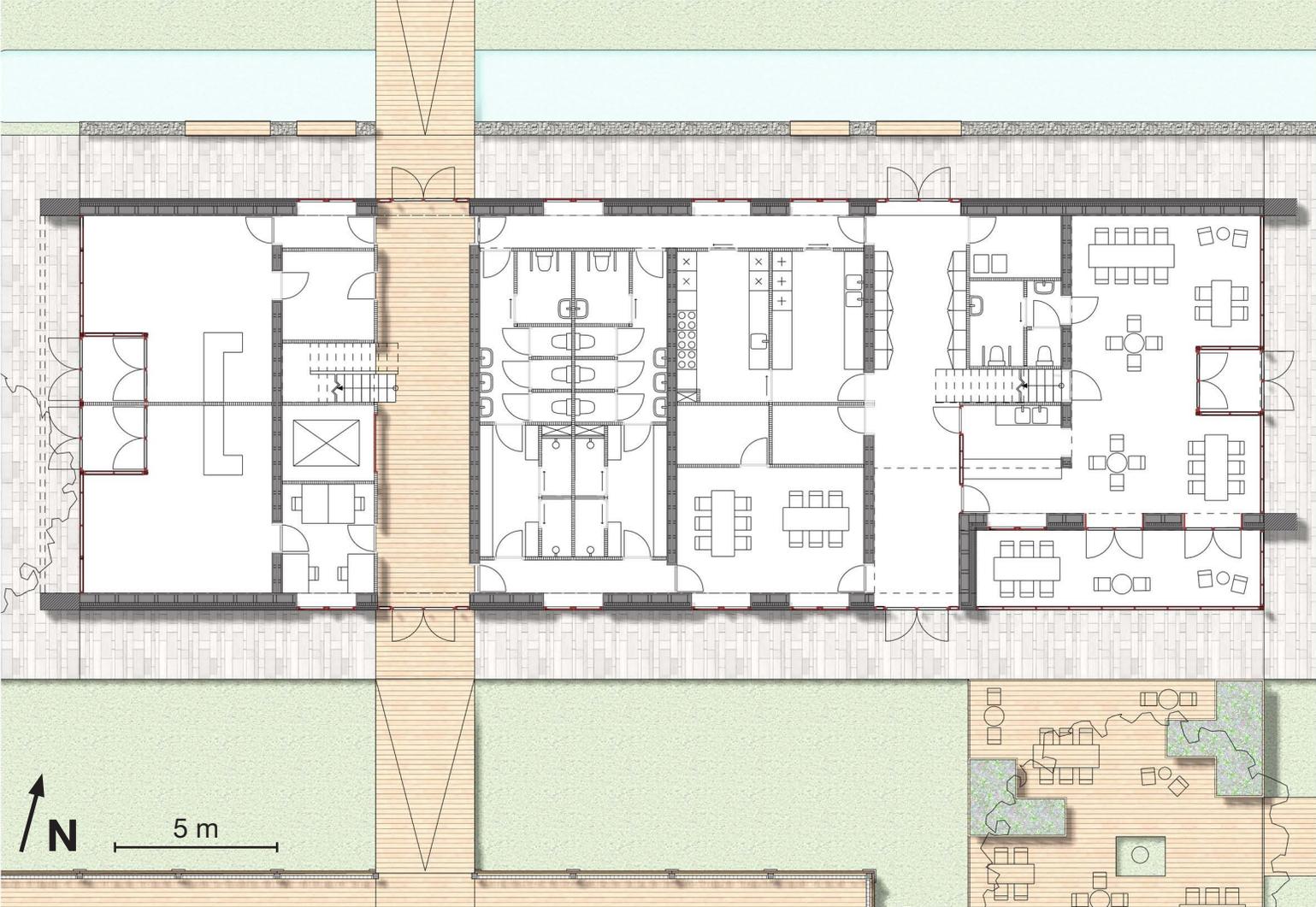
DAYCARE FACILITY

Tram & Bus

Park

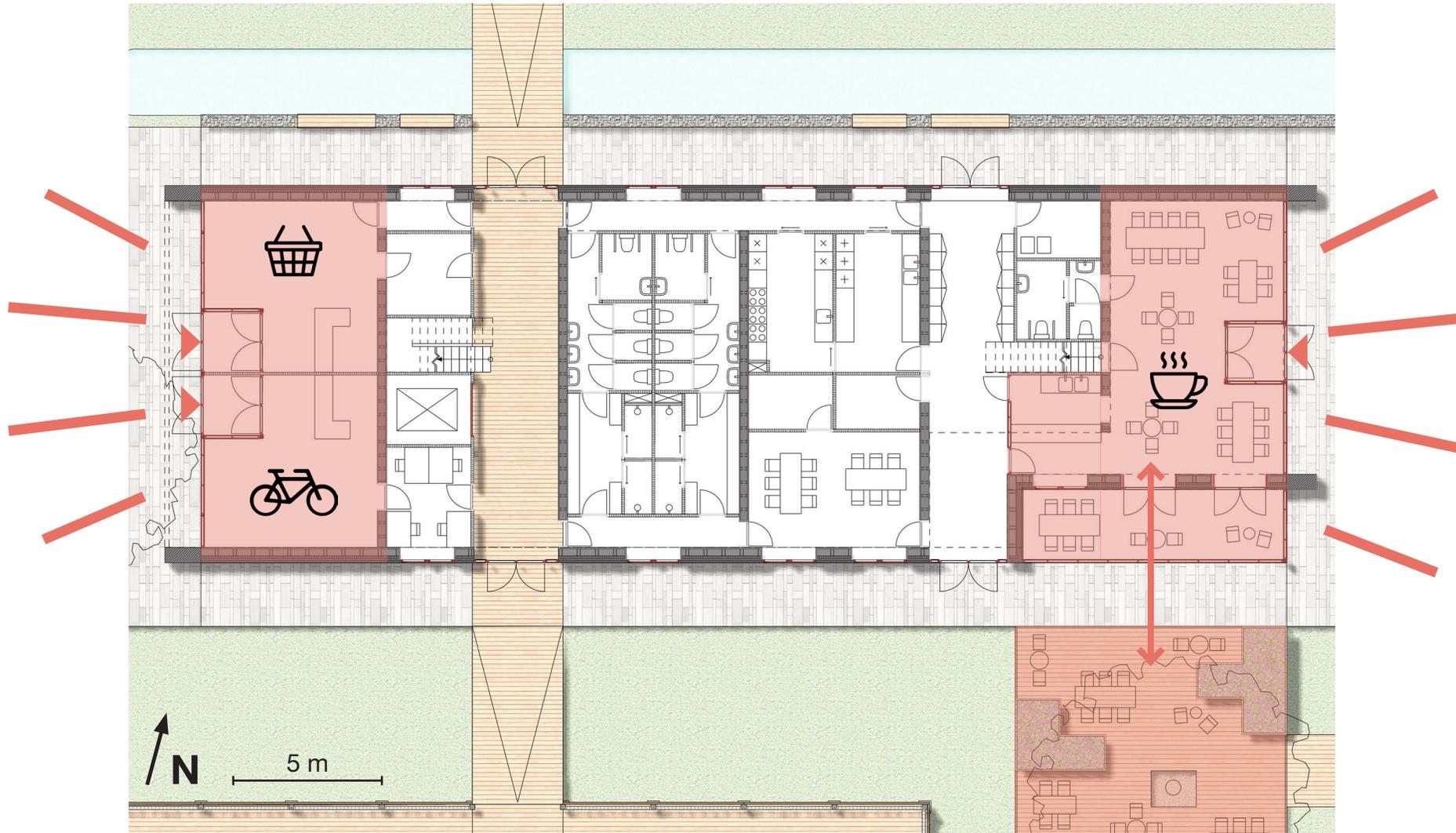
Lively public space

Open green space

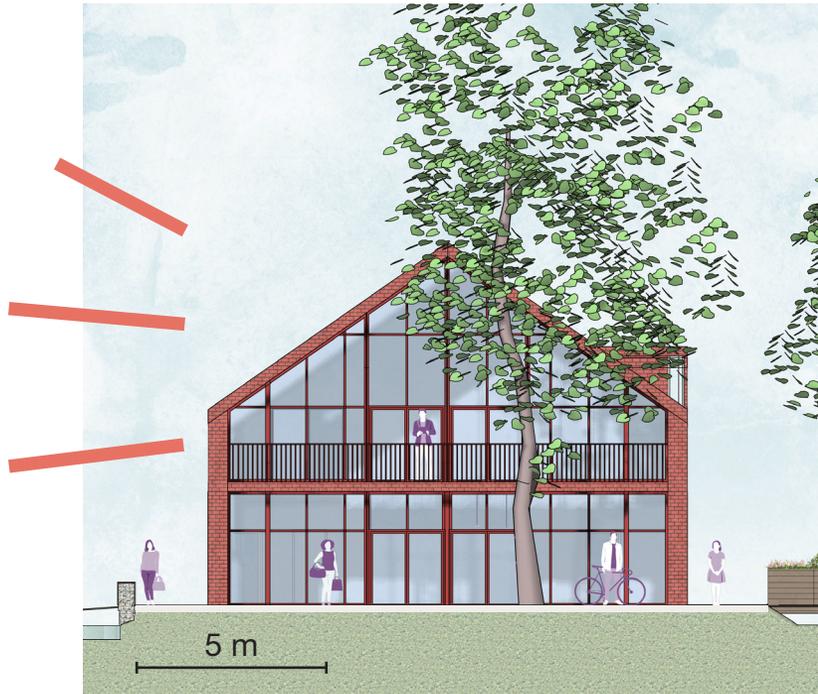


Ground floor (GF) & surroundings

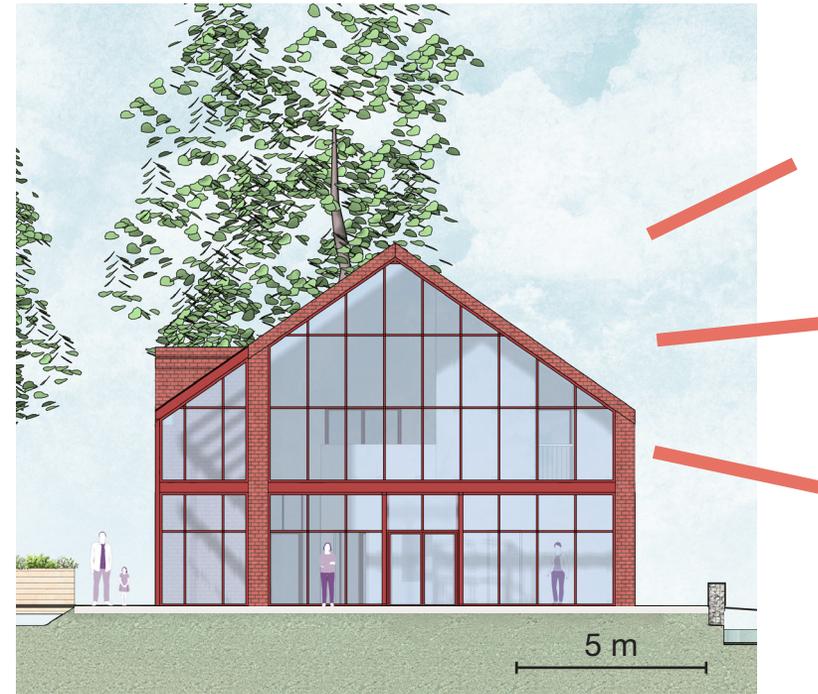
DAYCARE FACILITY (Guideline M)



DAYCARE FACILITY (Guideline M)



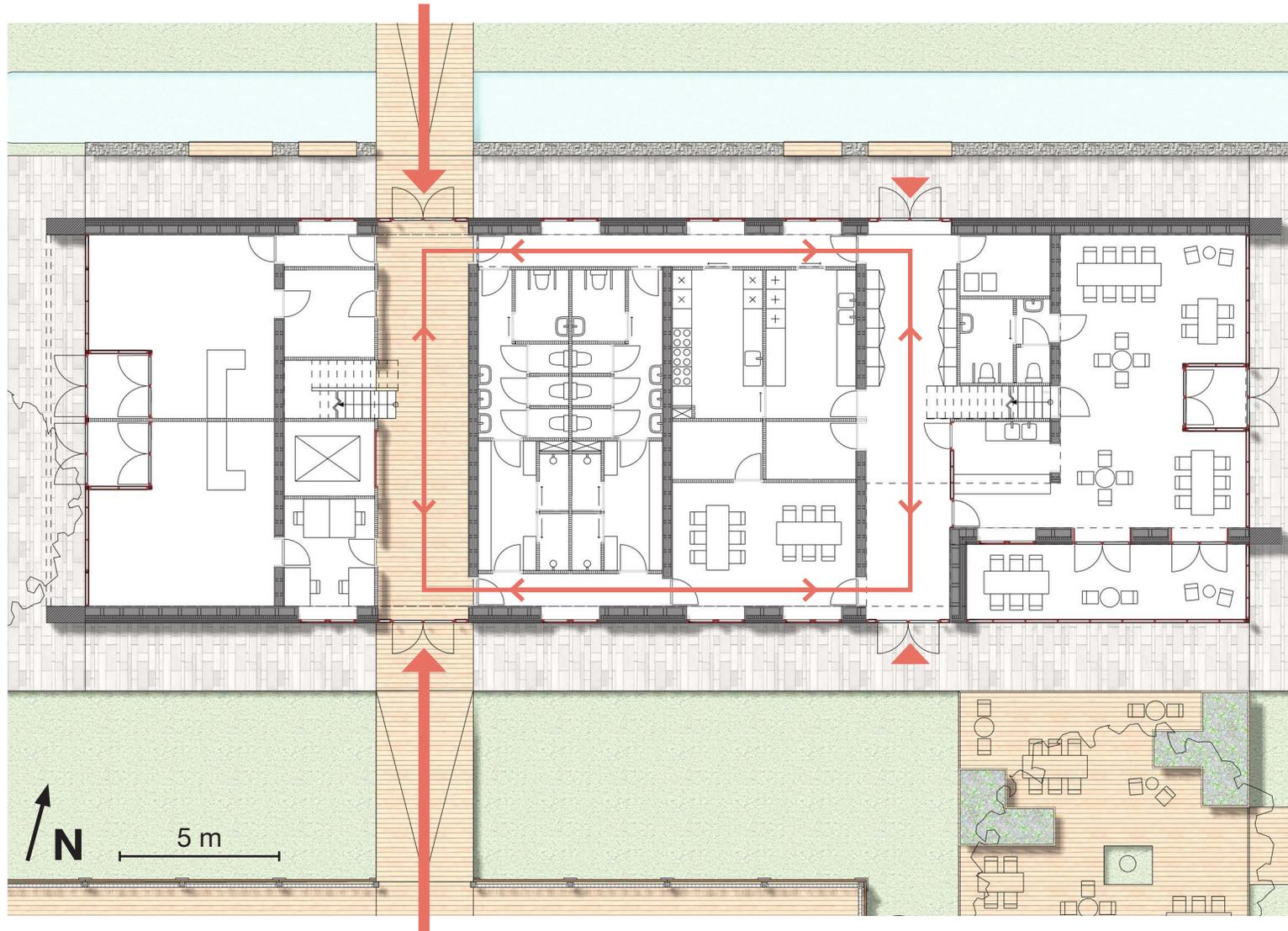
West facade



East facade



DAYCARE FACILITY (Guideline J)



GF Circulation

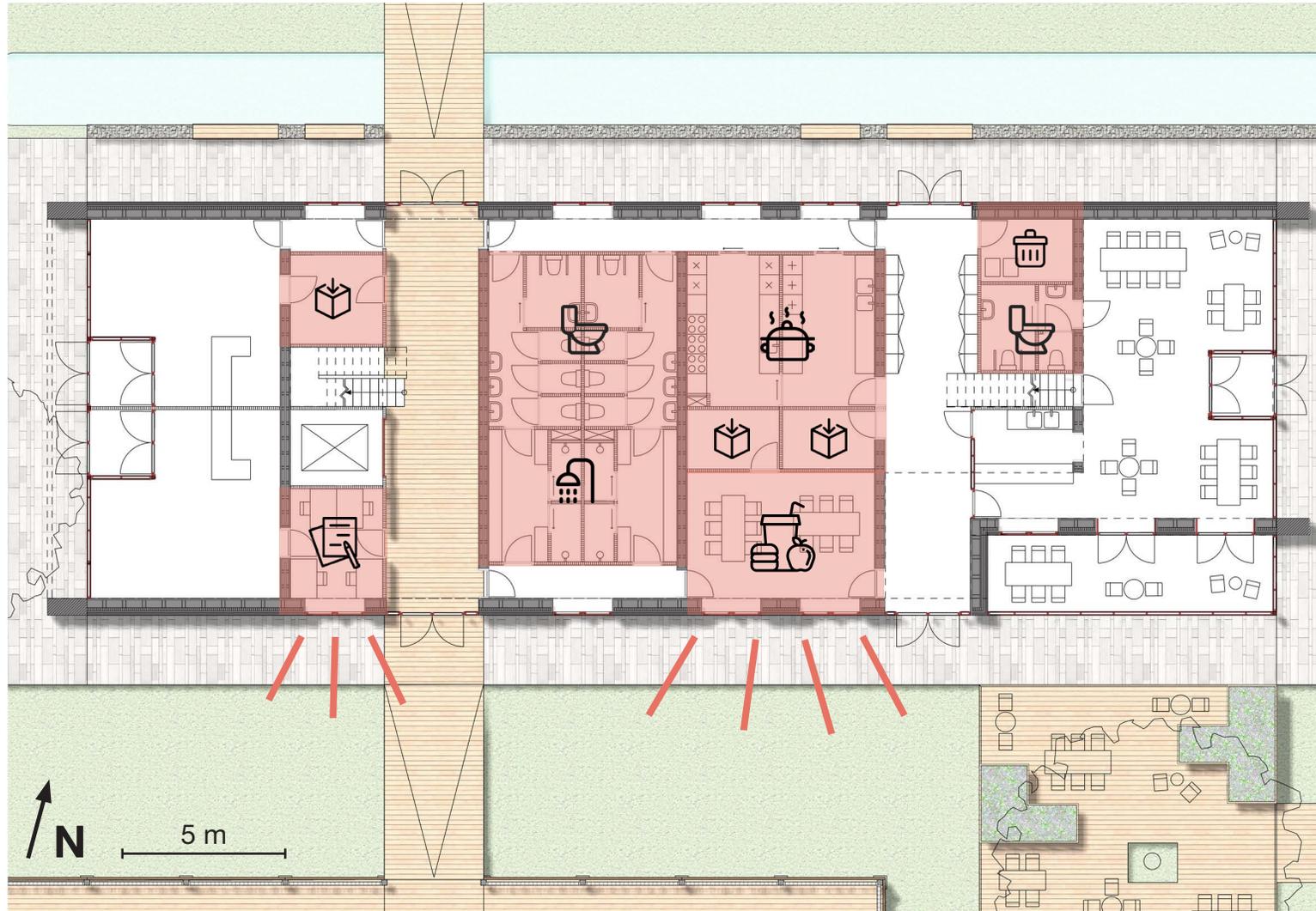
DAYCARE FACILITY (Guideline J)



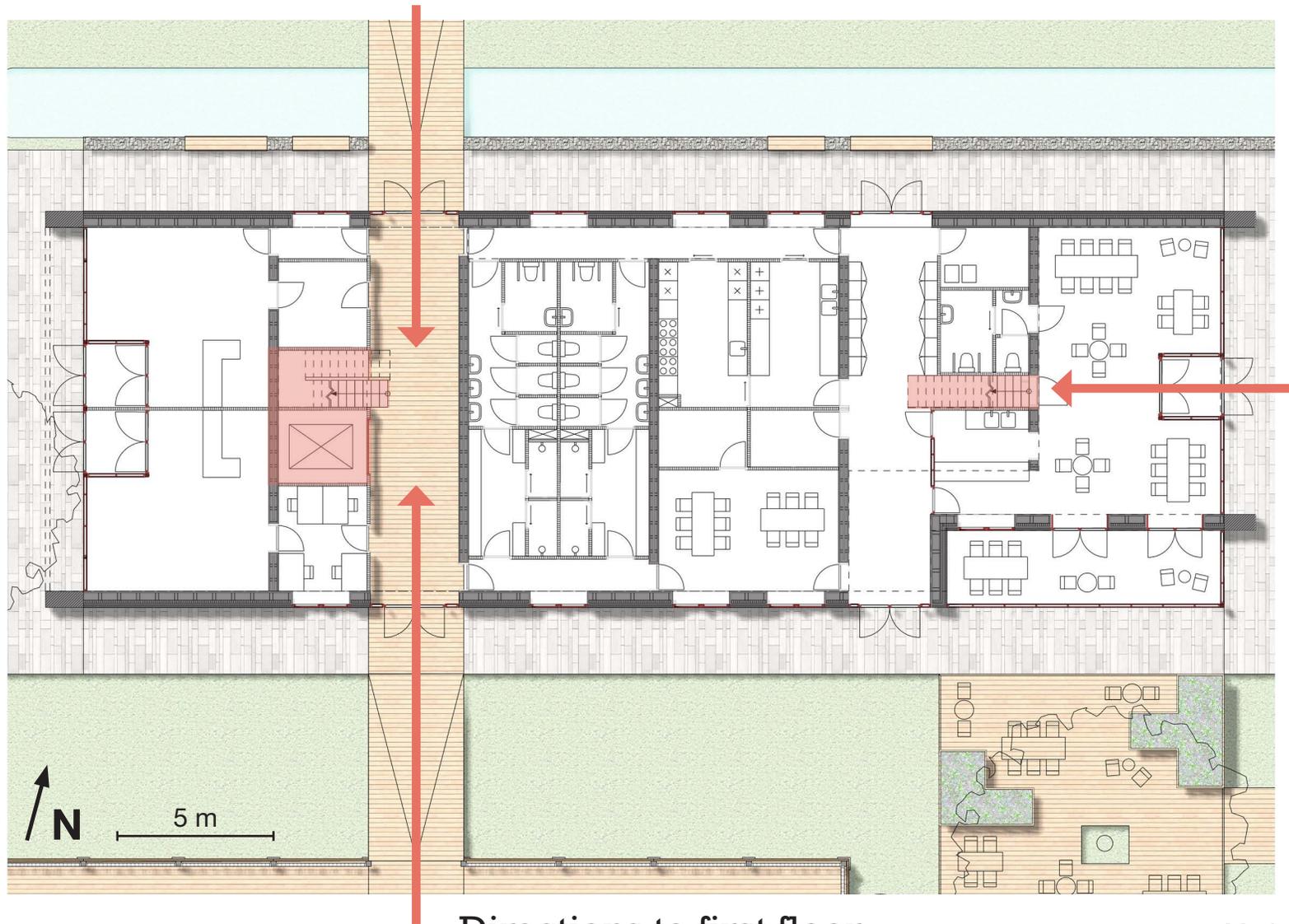
South facade



DAYCARE FACILITY

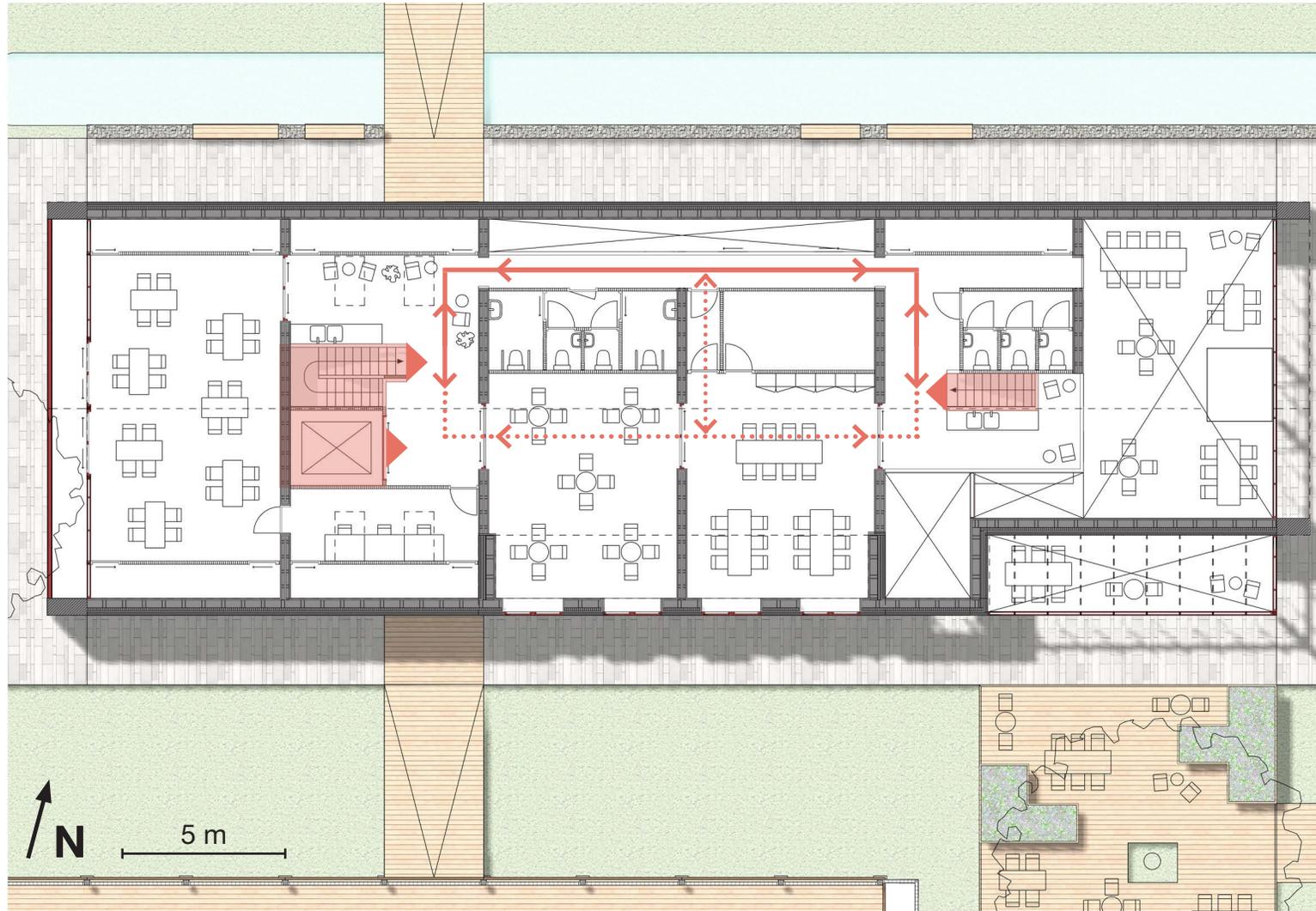


DAYCARE FACILITY

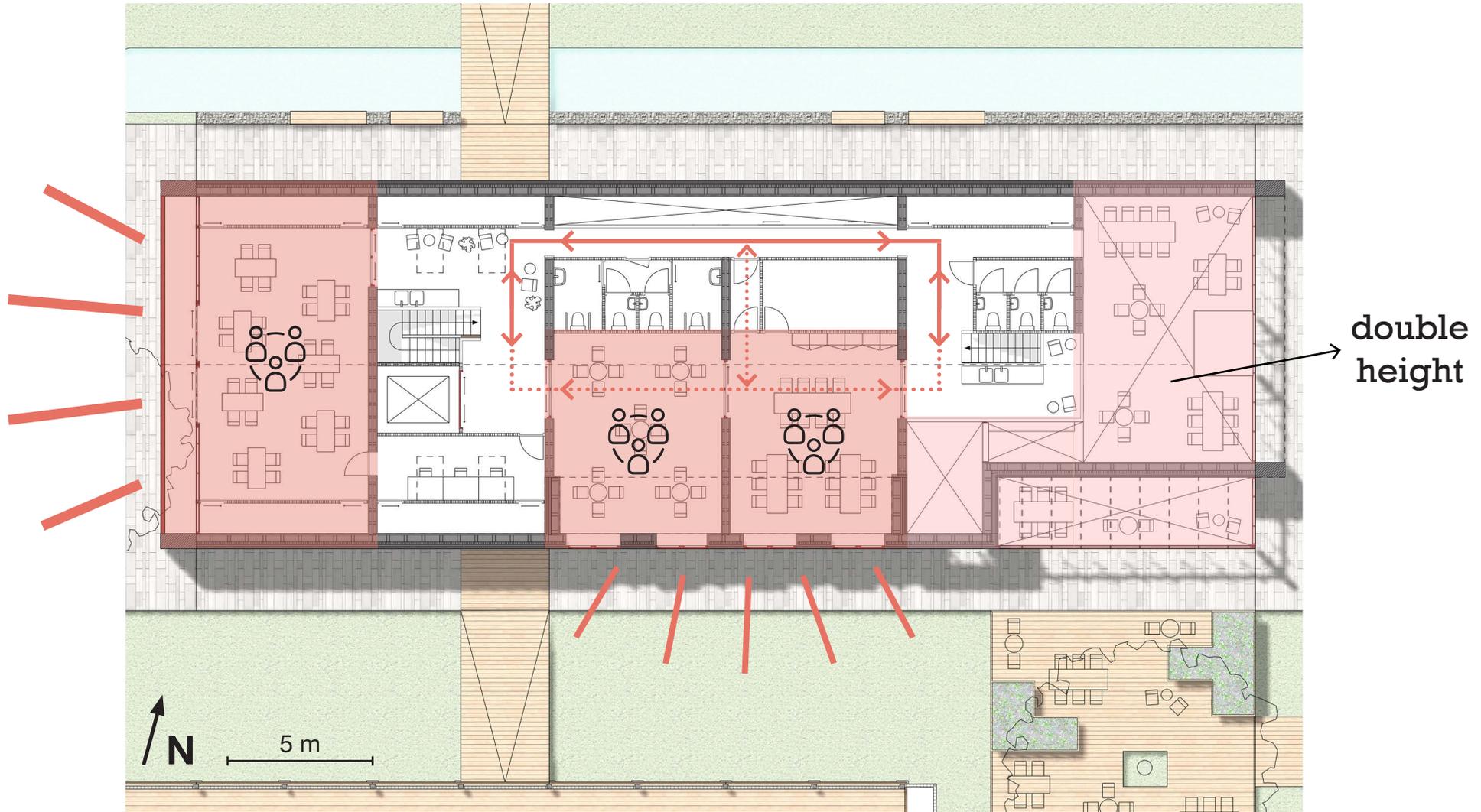


Directions to first floor

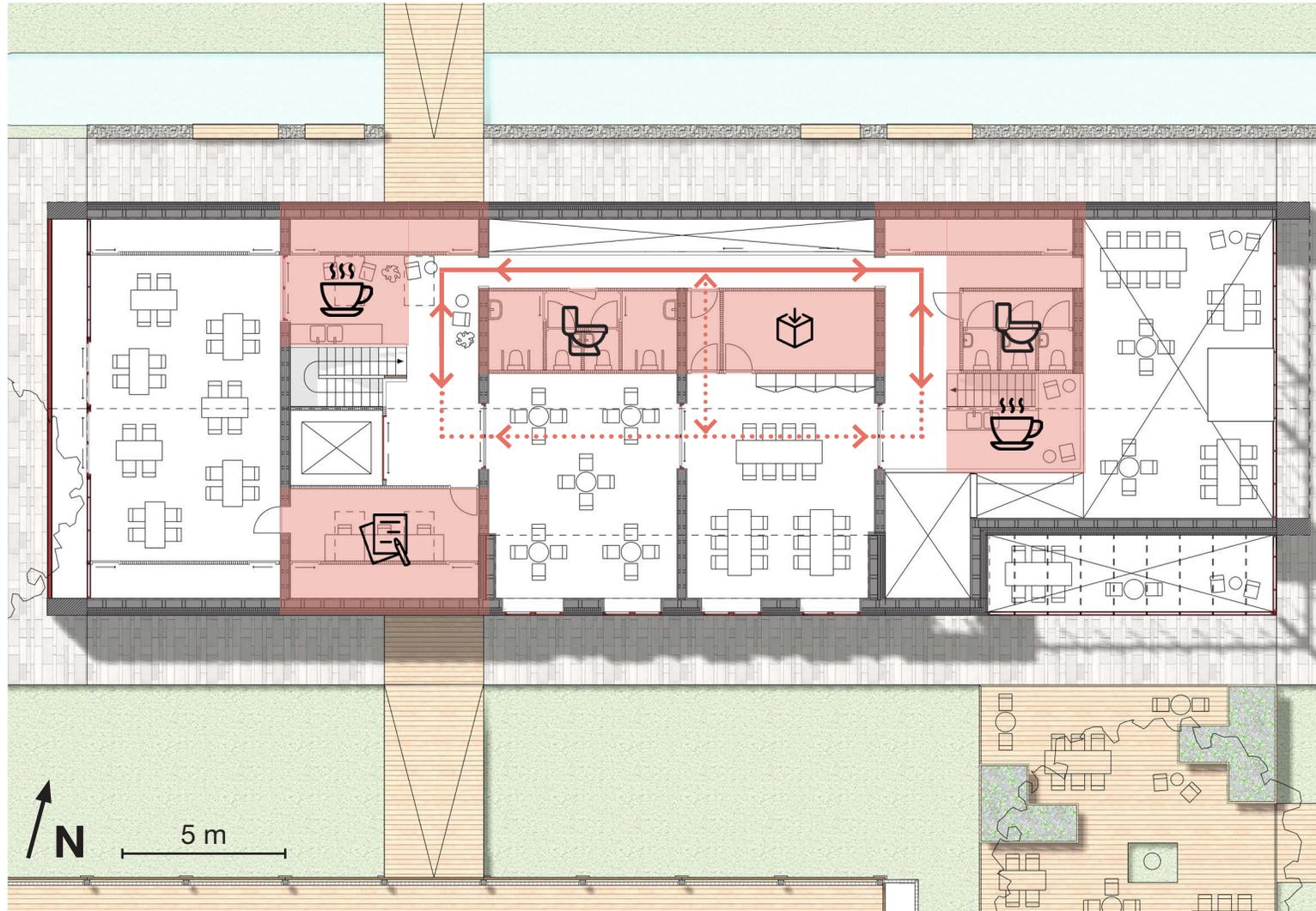
DAYCARE FACILITY



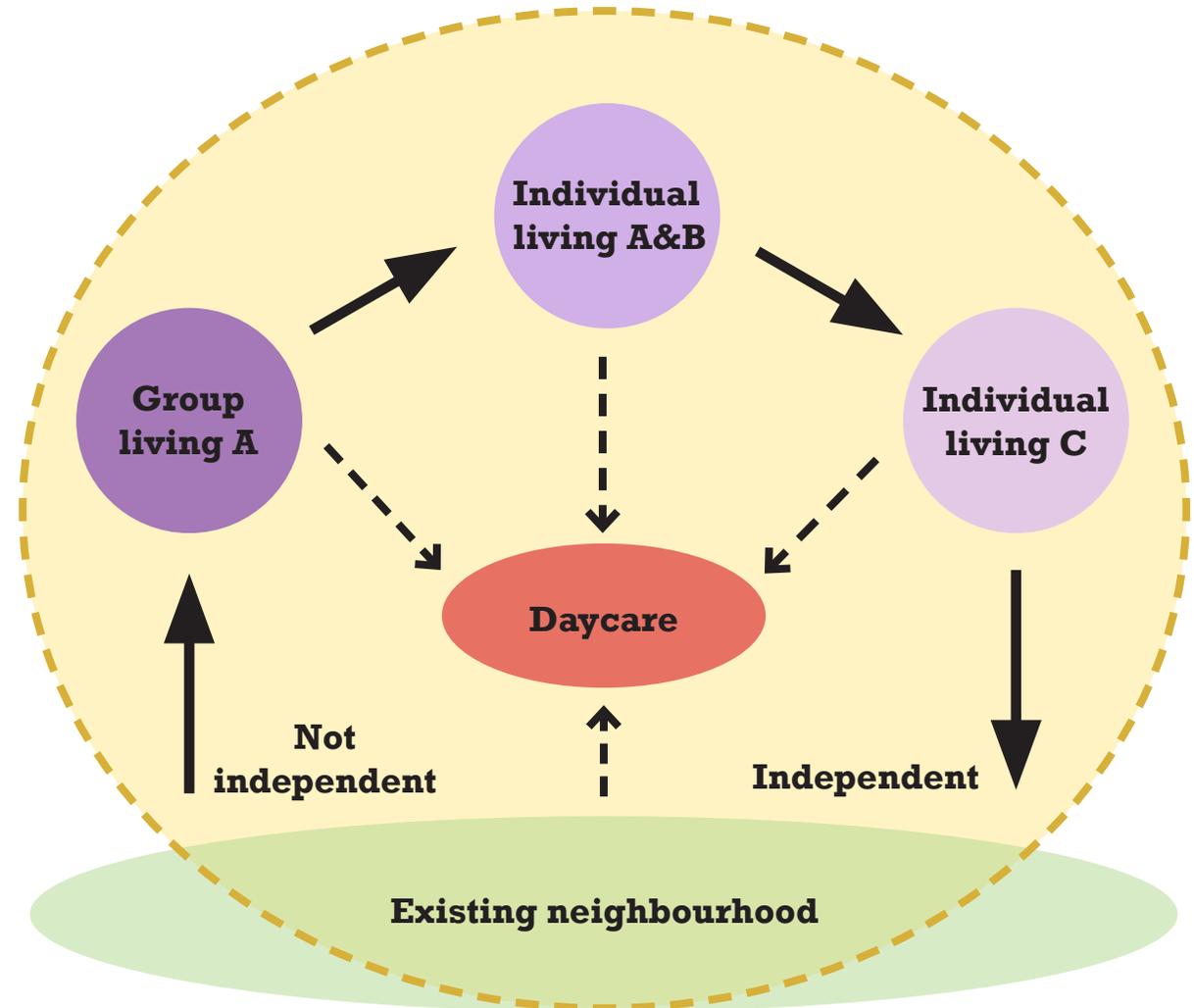
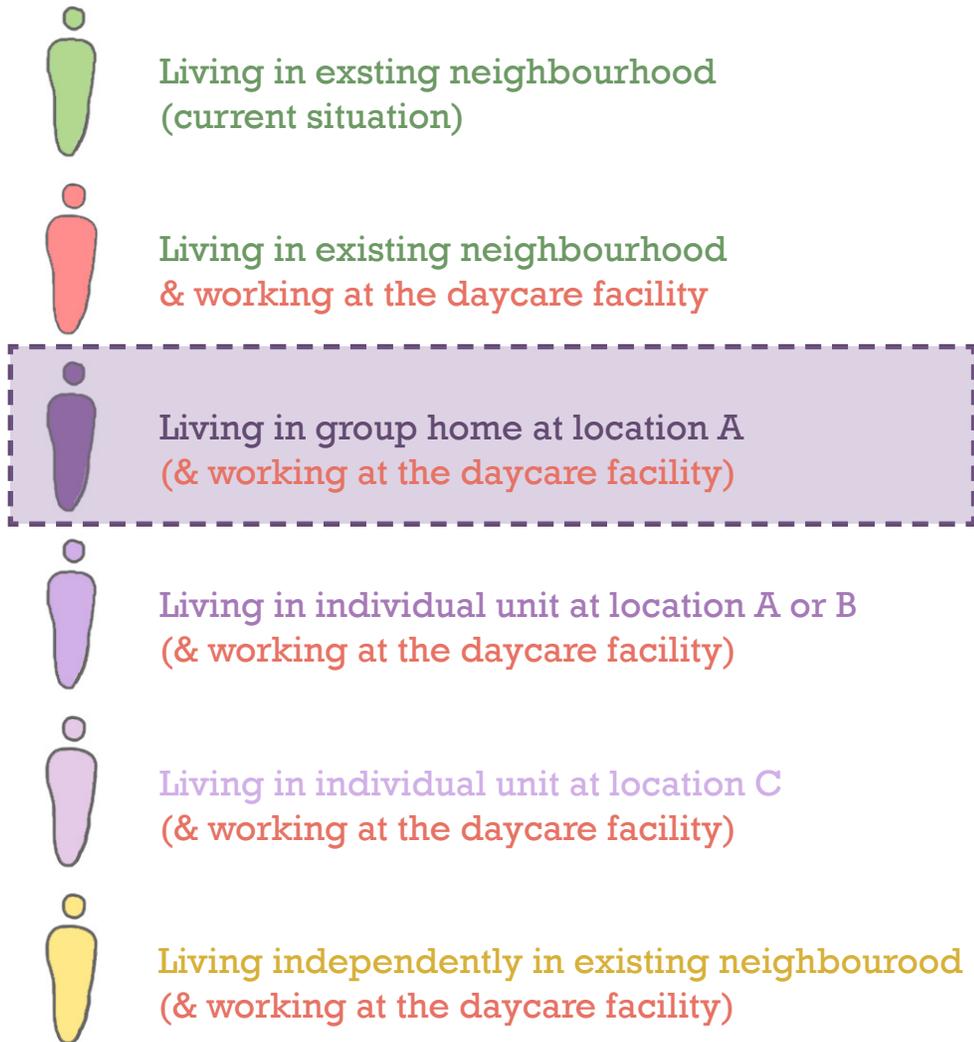
DAYCARE FACILITY (Guideline G)



DAYCARE FACILITY



GROUP HOMES (Guideline H)



GROUP HOMES (Guideline H)

-  Living in existing neighbourhood (current situation)
-  Living in existing neighbourhood & working at the daycare facility
-  Living in group home at location A (& working at the daycare facility)
-  Living in individual unit at location A or B (& working at the daycare facility)
-  Living in individual unit at location C (& working at the daycare facility)
-  Living independently in existing neighbourhood (& working at the daycare facility)



GROUP HOMES



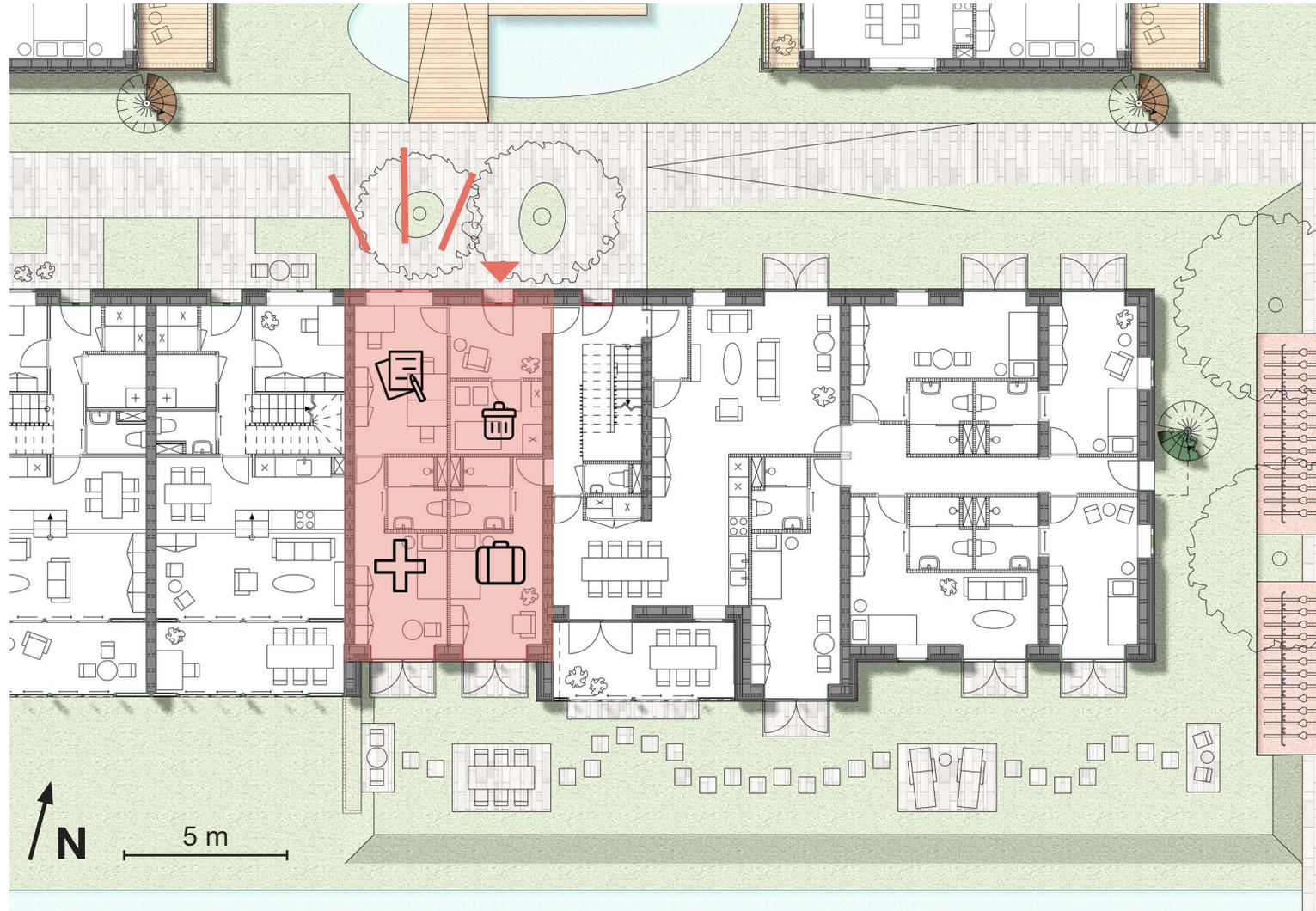
GROUP HOMES



GROUP HOMES



GROUP HOMES (Guideline F)



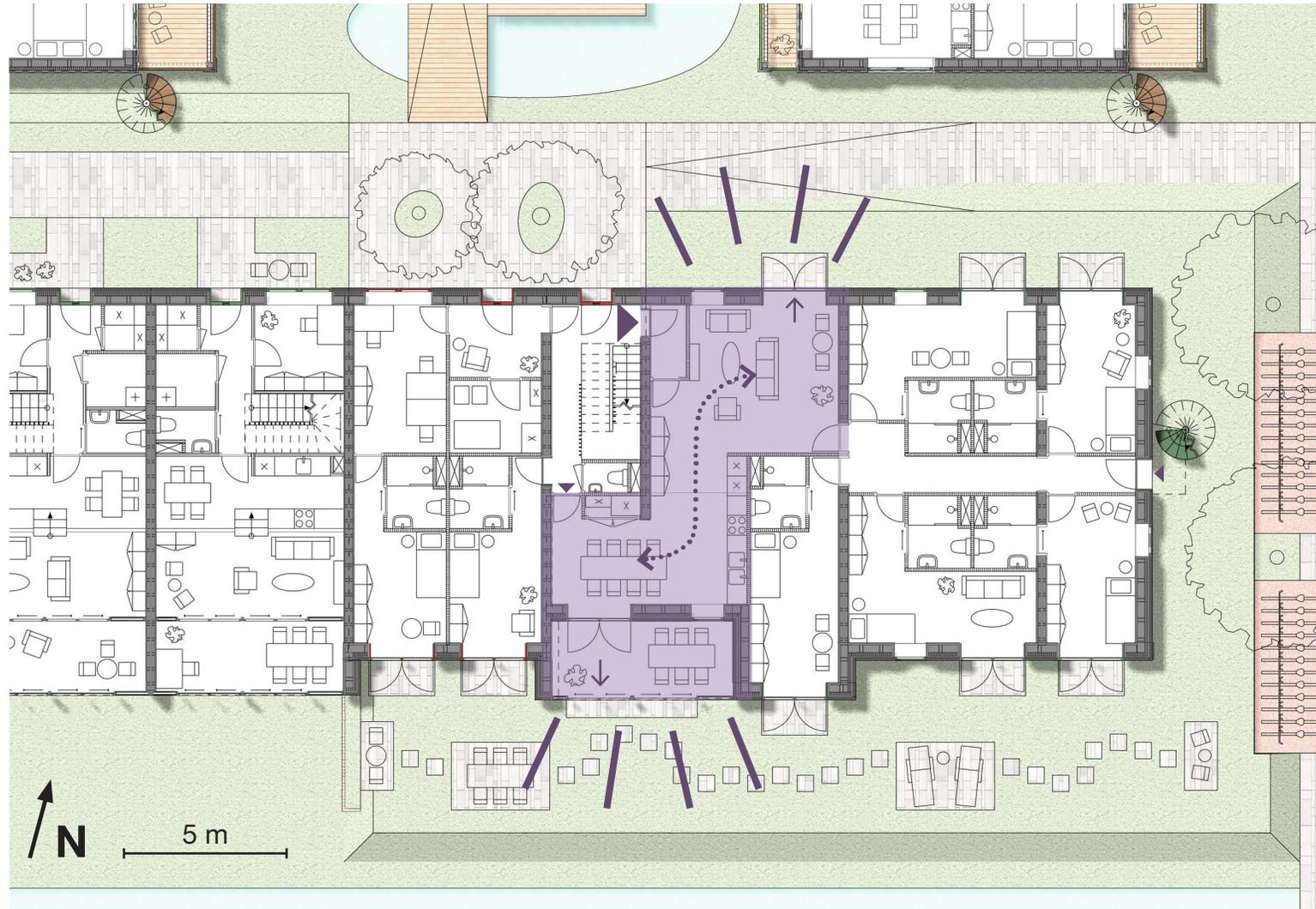
GF care/support point

GROUP HOMES (Guideline I)



North facade

GROUP HOMES (Guidelines L & O)



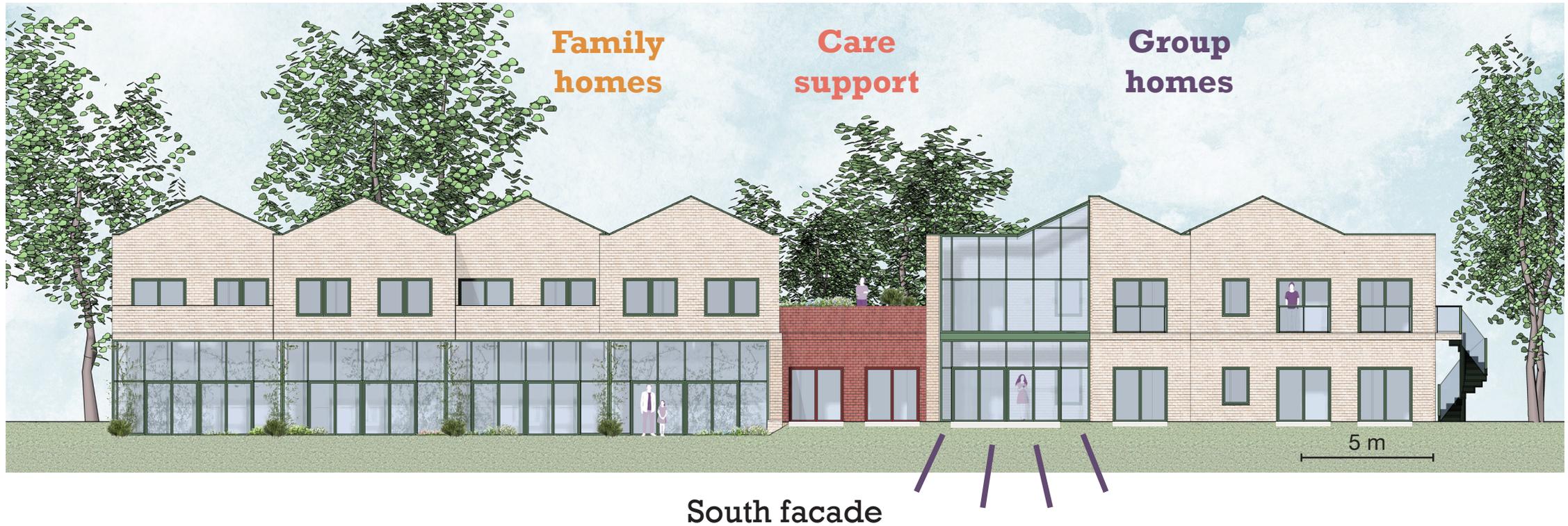
GF Shared living spaces

GROUP HOMES (Guidelines L & O)



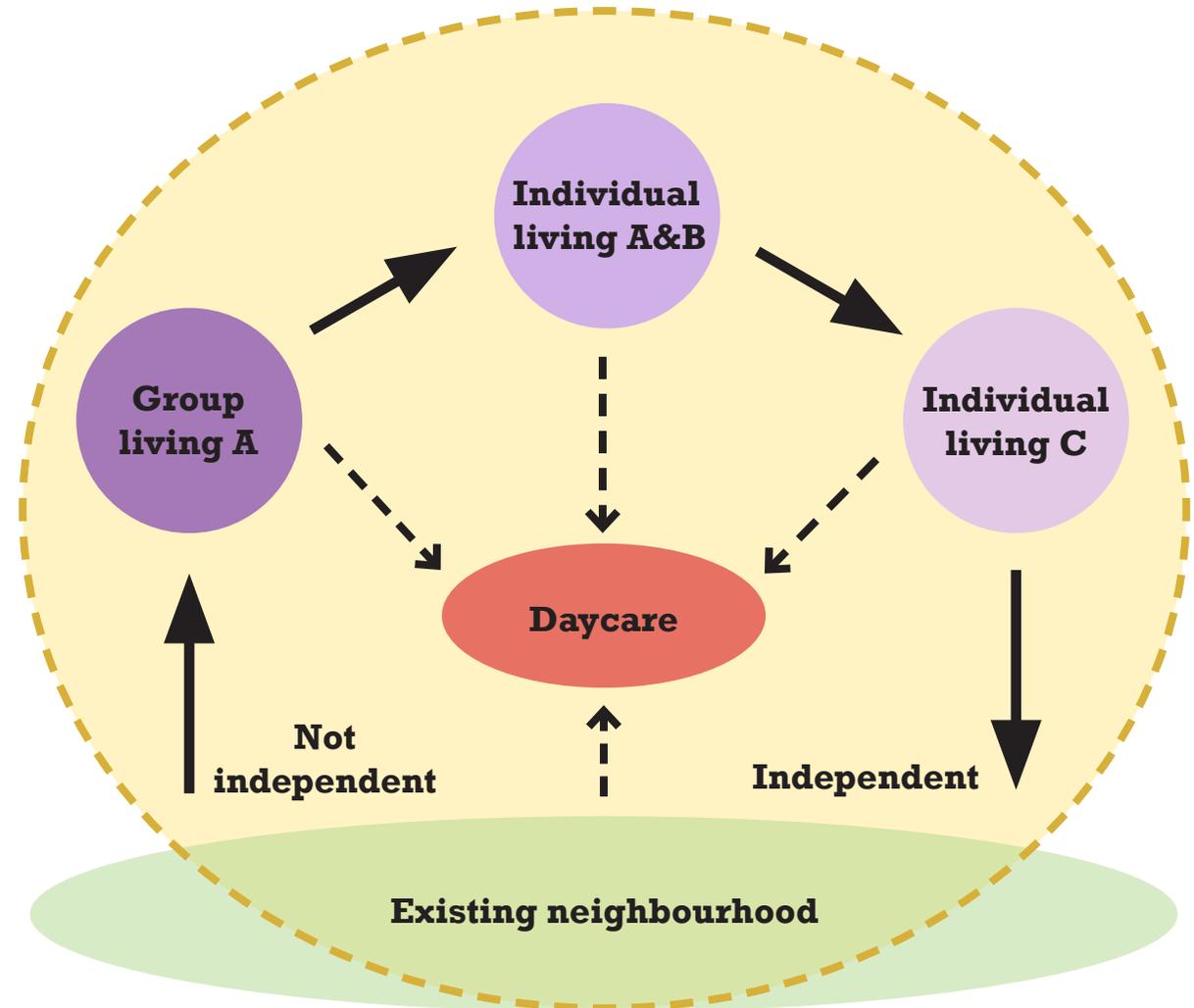
GF Individual rooms

GROUP HOMES (Guidelines L)



INDIVIDUAL UNITS (Guideline H)

-  Living in existing neighbourhood (current situation)
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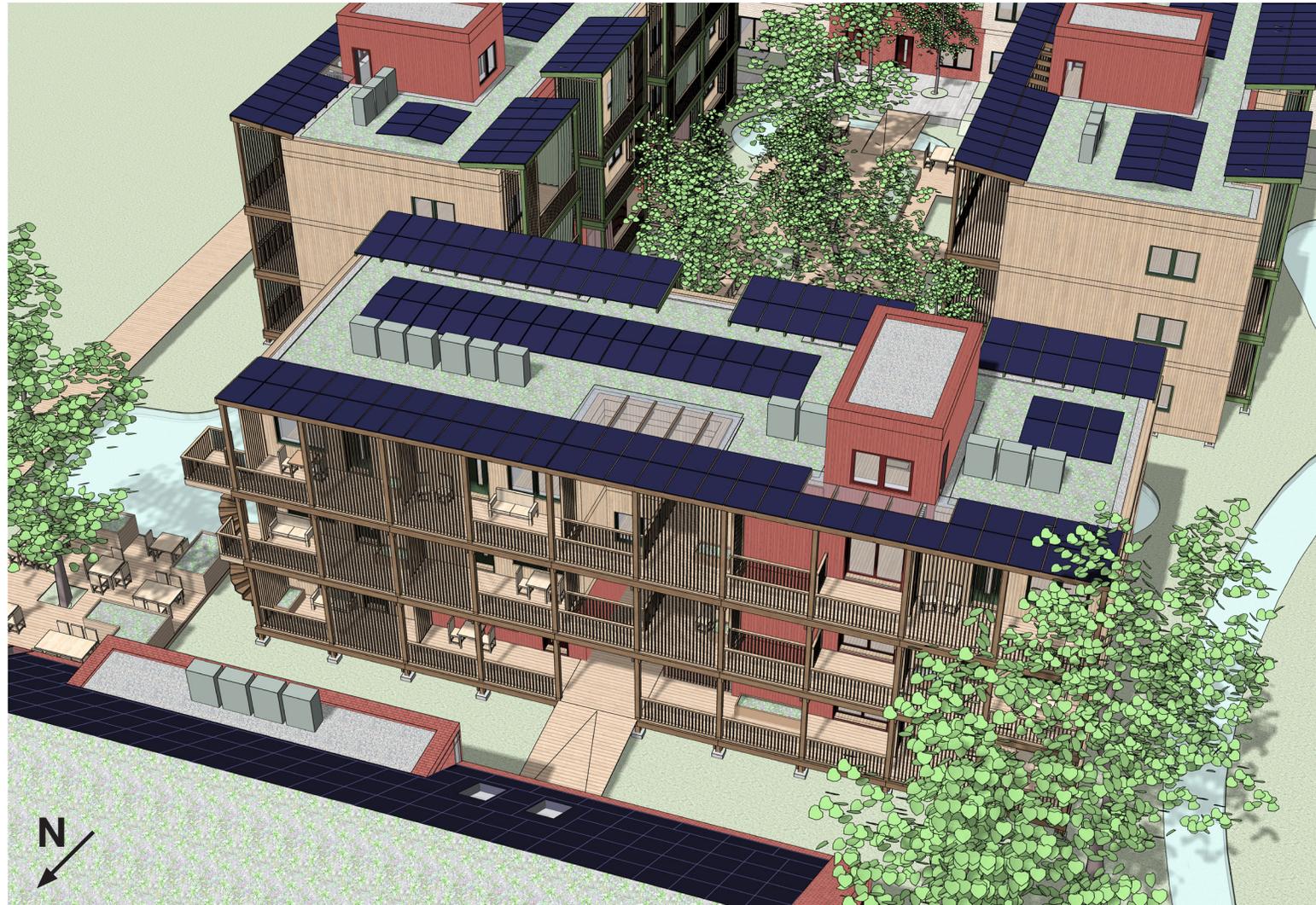


INDIVIDUAL UNITS (Guideline H)

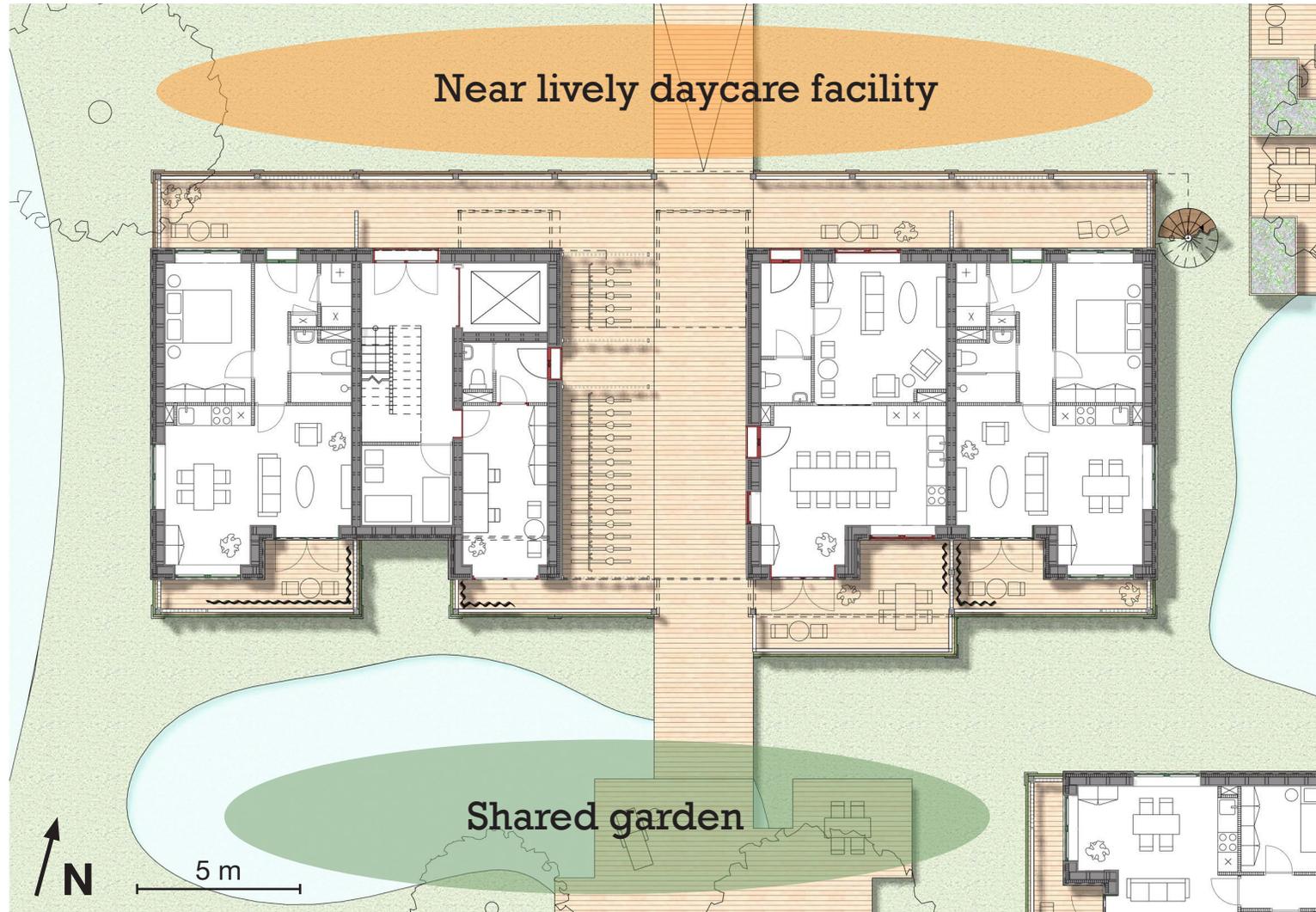
-  Living in existing neighbourhood (current situation)
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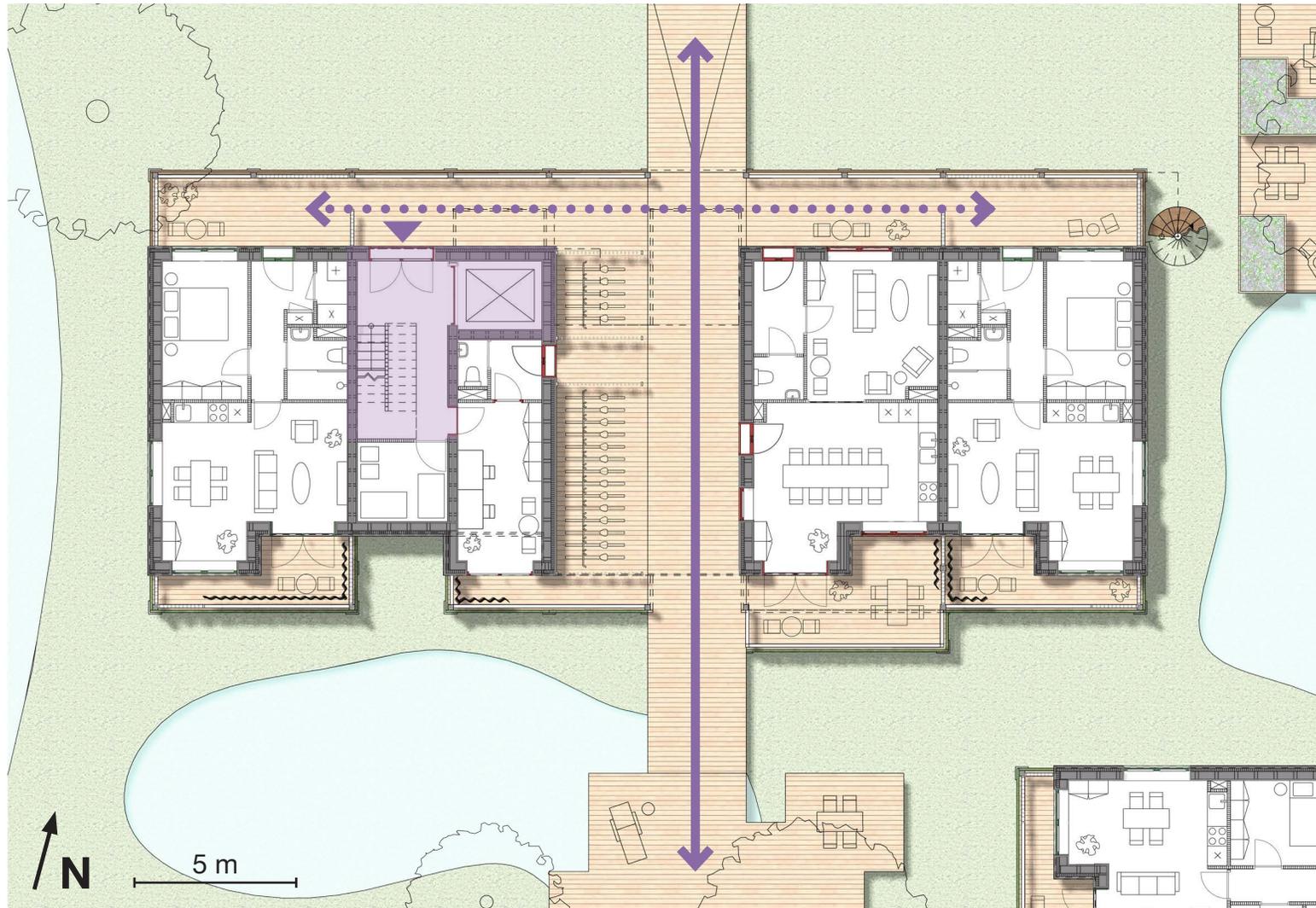
INDIVIDUAL UNITS



INDIVIDUAL UNITS (Guideline J)



INDIVIDUAL UNITS (Guideline M)



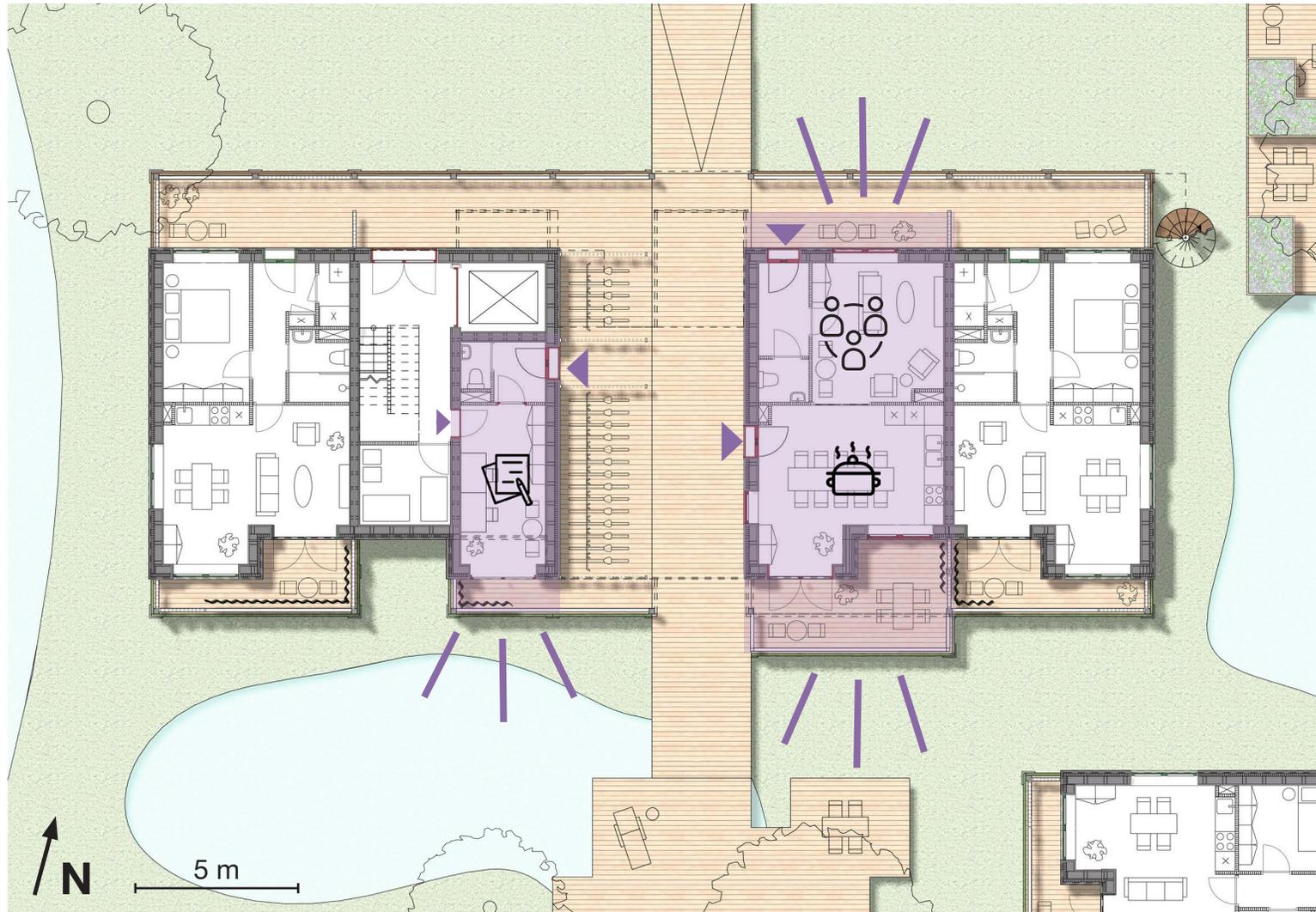
GF Accessibility

INDIVIDUAL UNITS (Guidelines G & M)



North facade

INDIVIDUAL UNITS (Guidelines G & M)



GF Shared spaces & support point

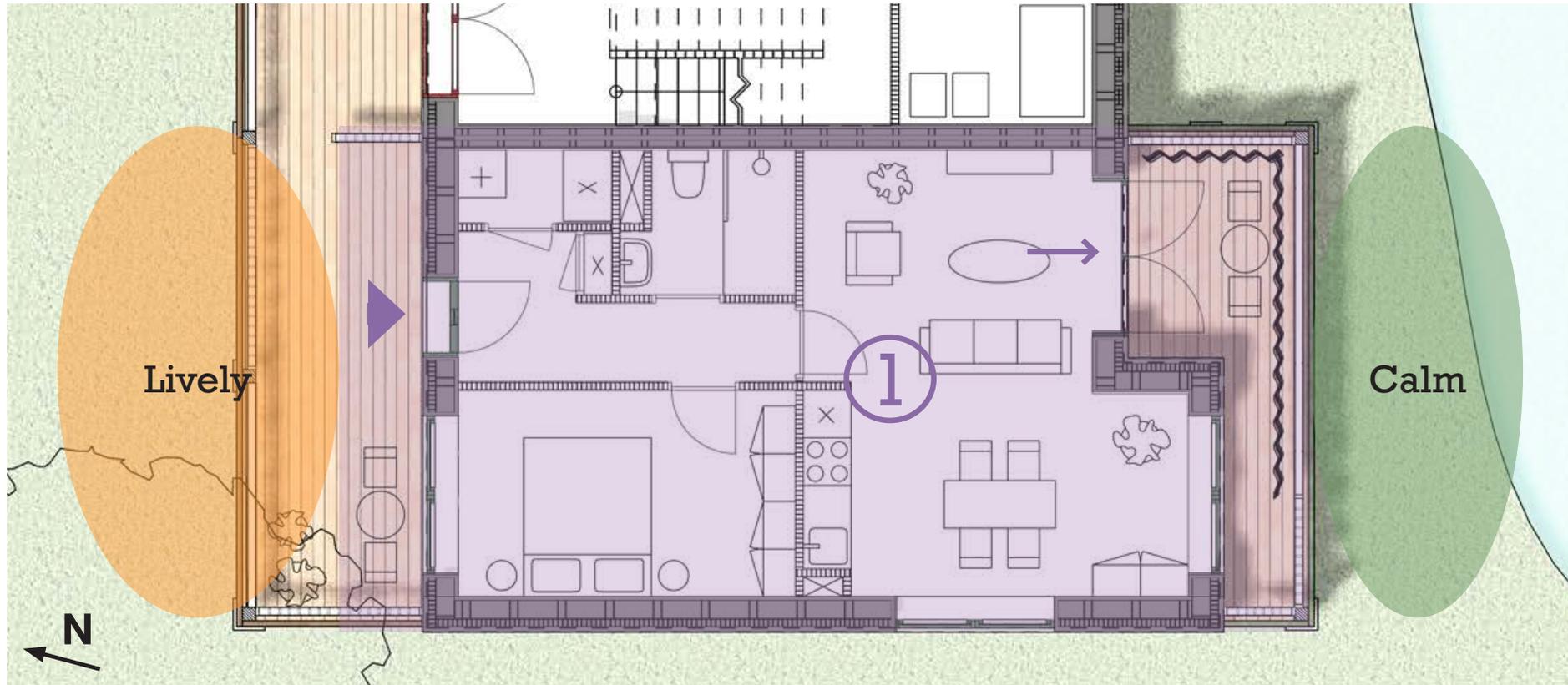
INDIVIDUAL UNITS (Guidelines G & M)



INDIVIDUAL UNITS (Guideline J)



INDIVIDUAL UNITS (Guidelines J & O)



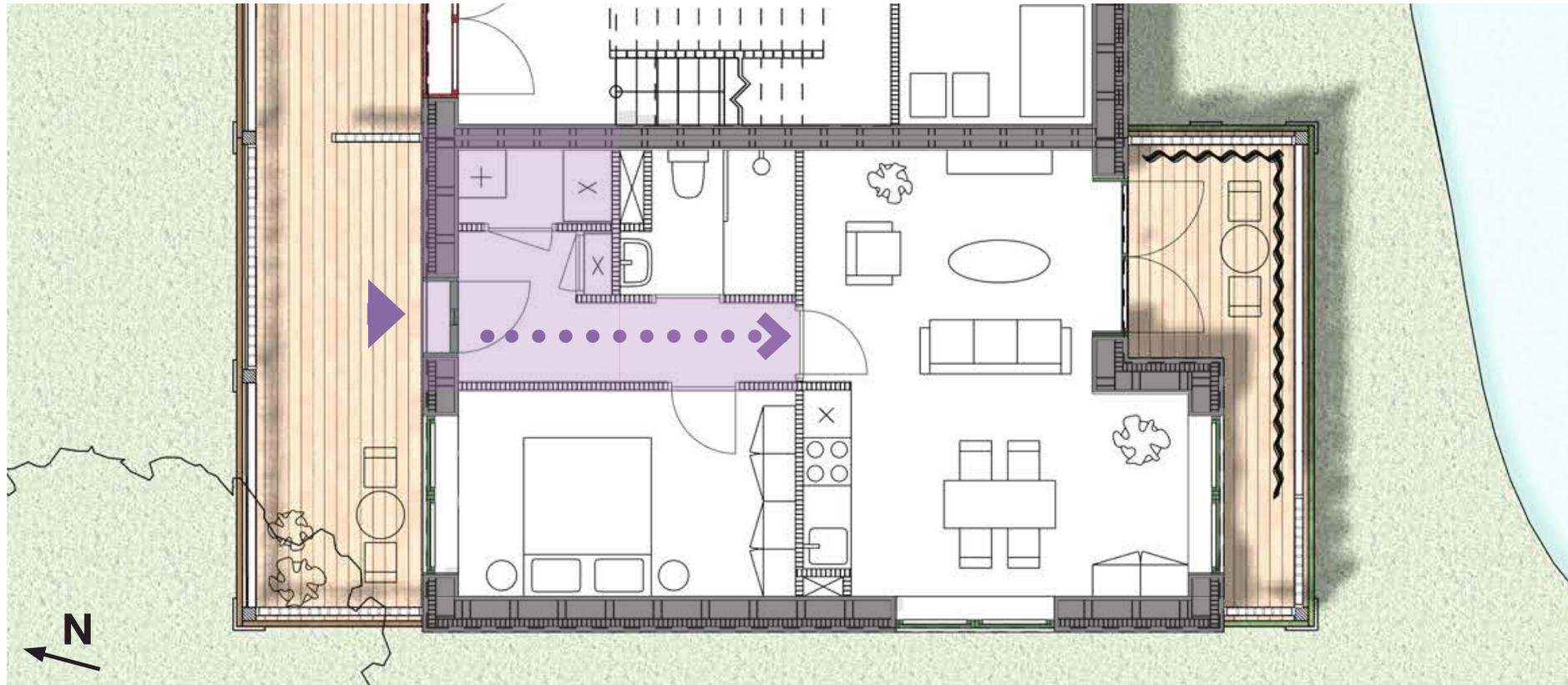
GF Individual unit

INDIVIDUAL UNITS (Guidelines L & M)



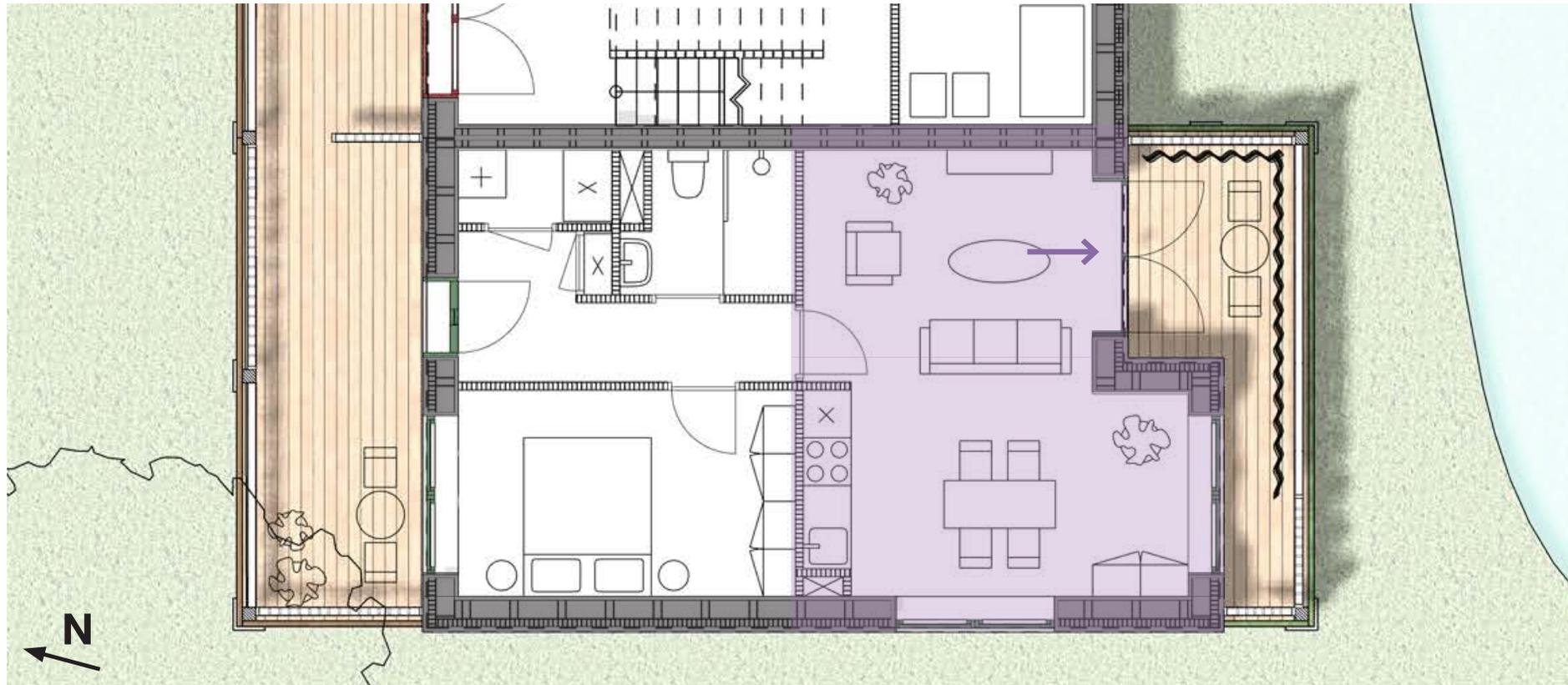
GF Individual unit - Access

INDIVIDUAL UNITS (Guideline P)



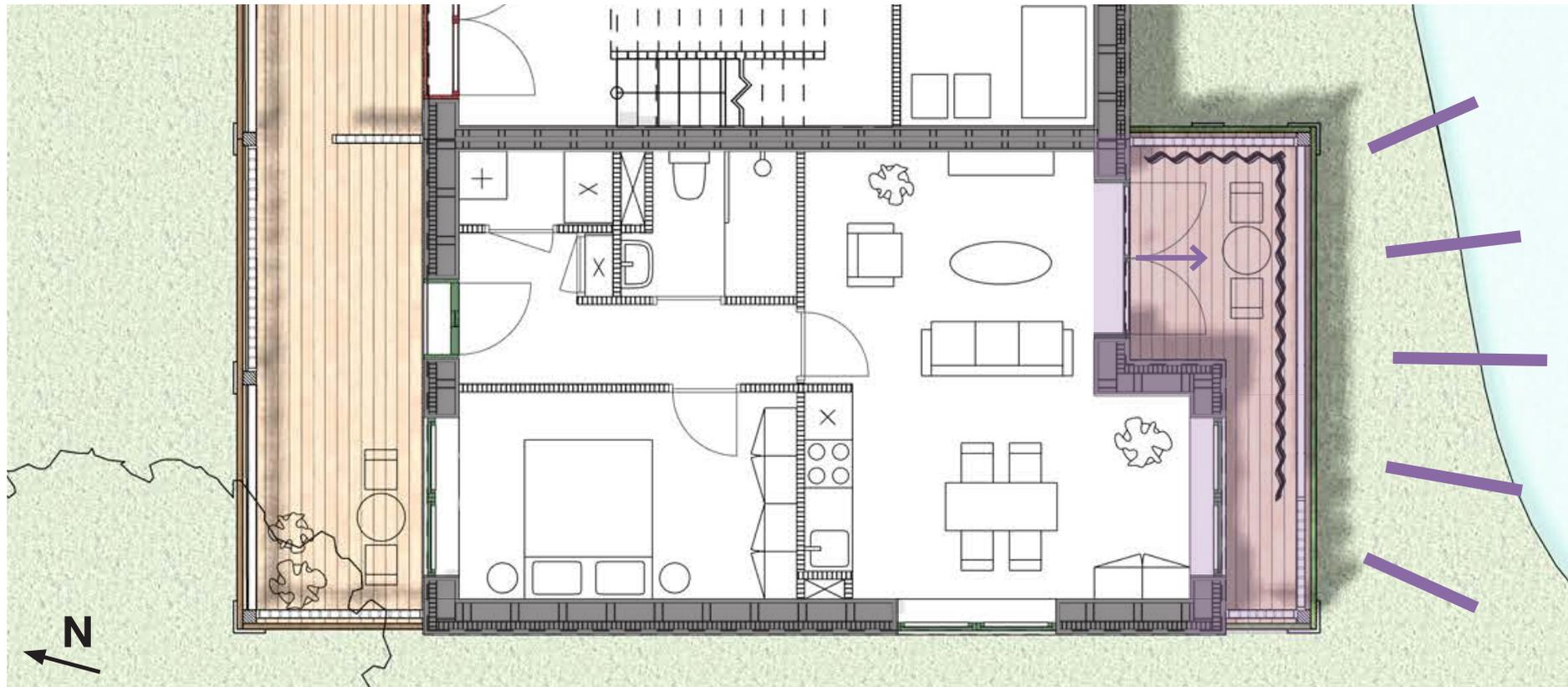
GF Individual unit - Entrance/hallway

INDIVIDUAL UNITS (Guideline O)



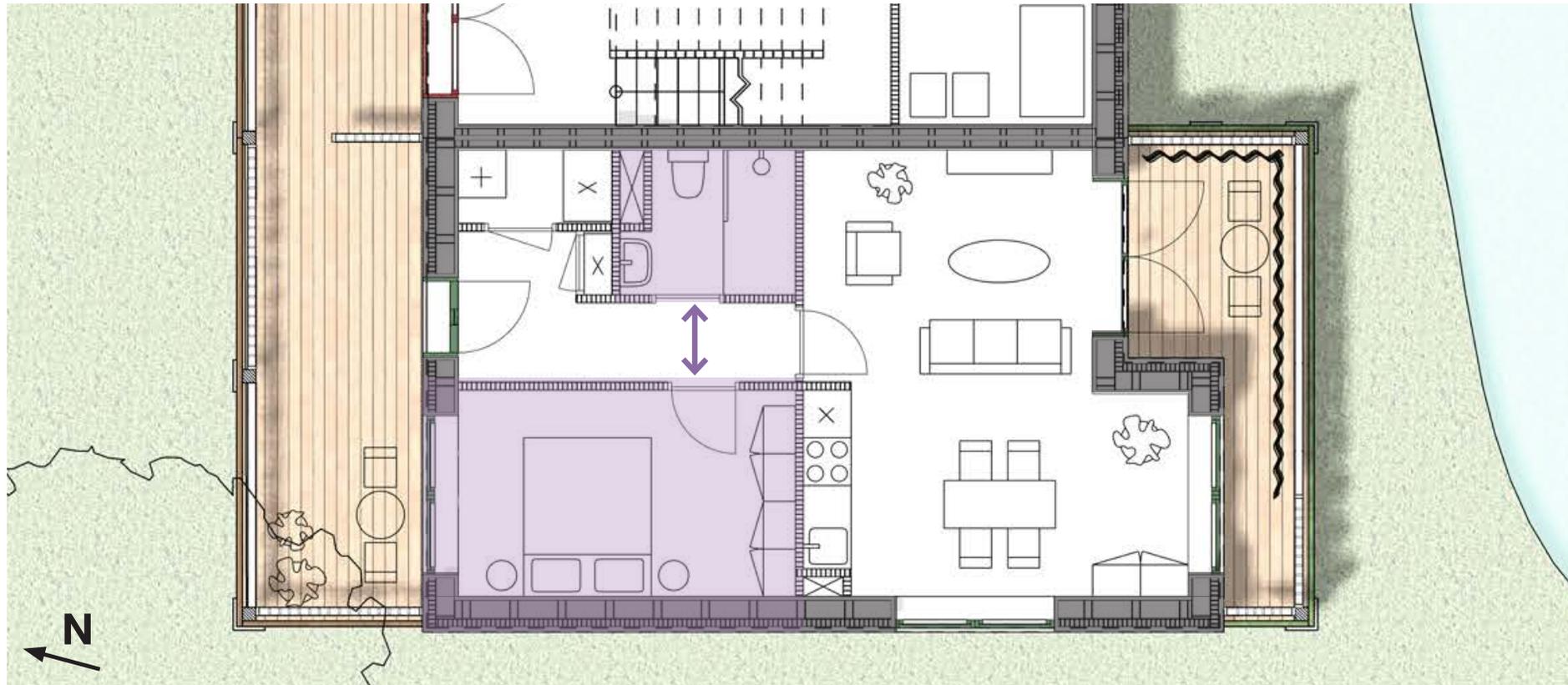
GF Individual unit - Living room & kitchen

INDIVIDUAL UNITS (Guideline L)



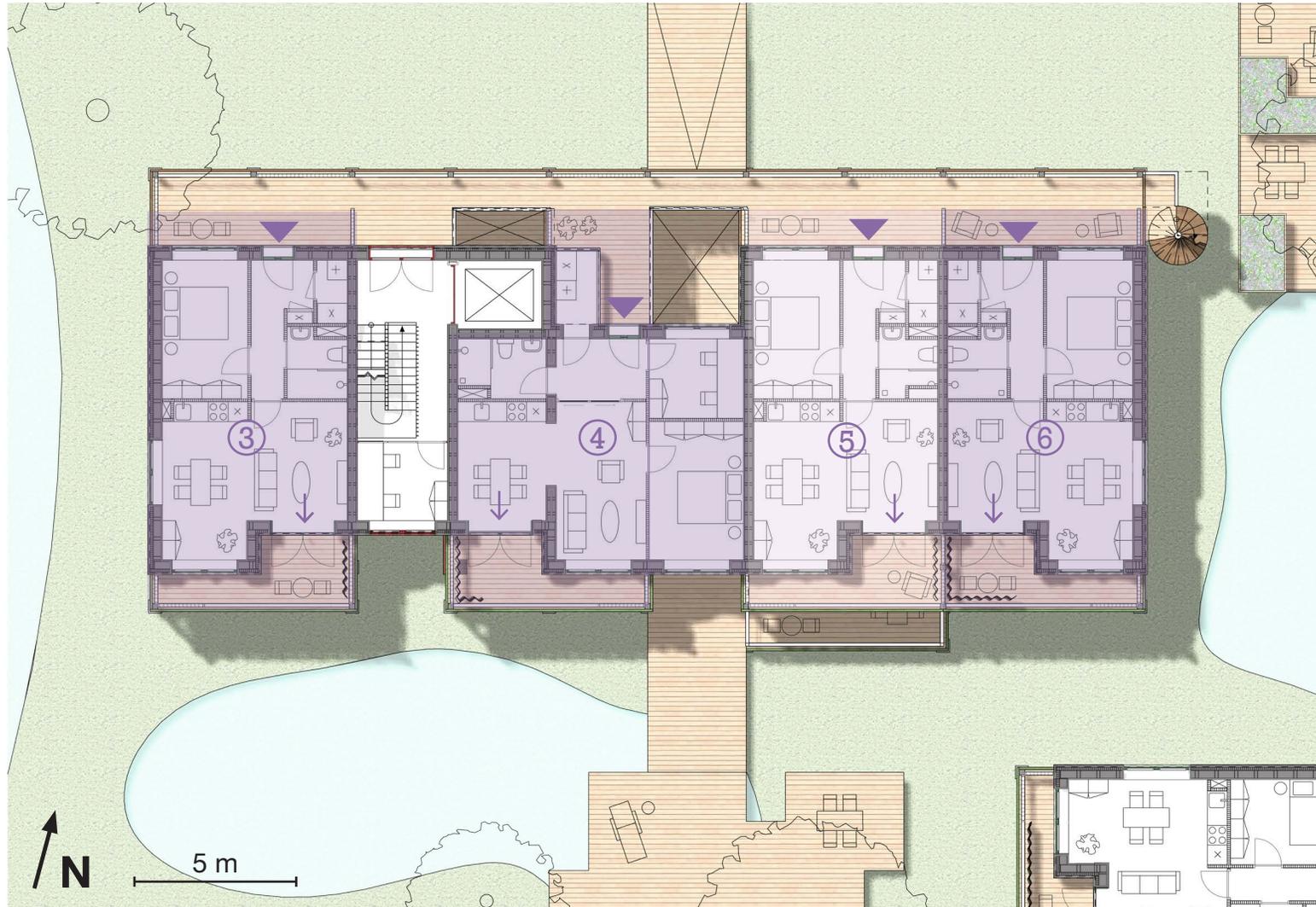
GF Individual unit - Private balcony

INDIVIDUAL UNITS (Guidelines O & P)

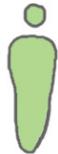
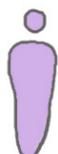


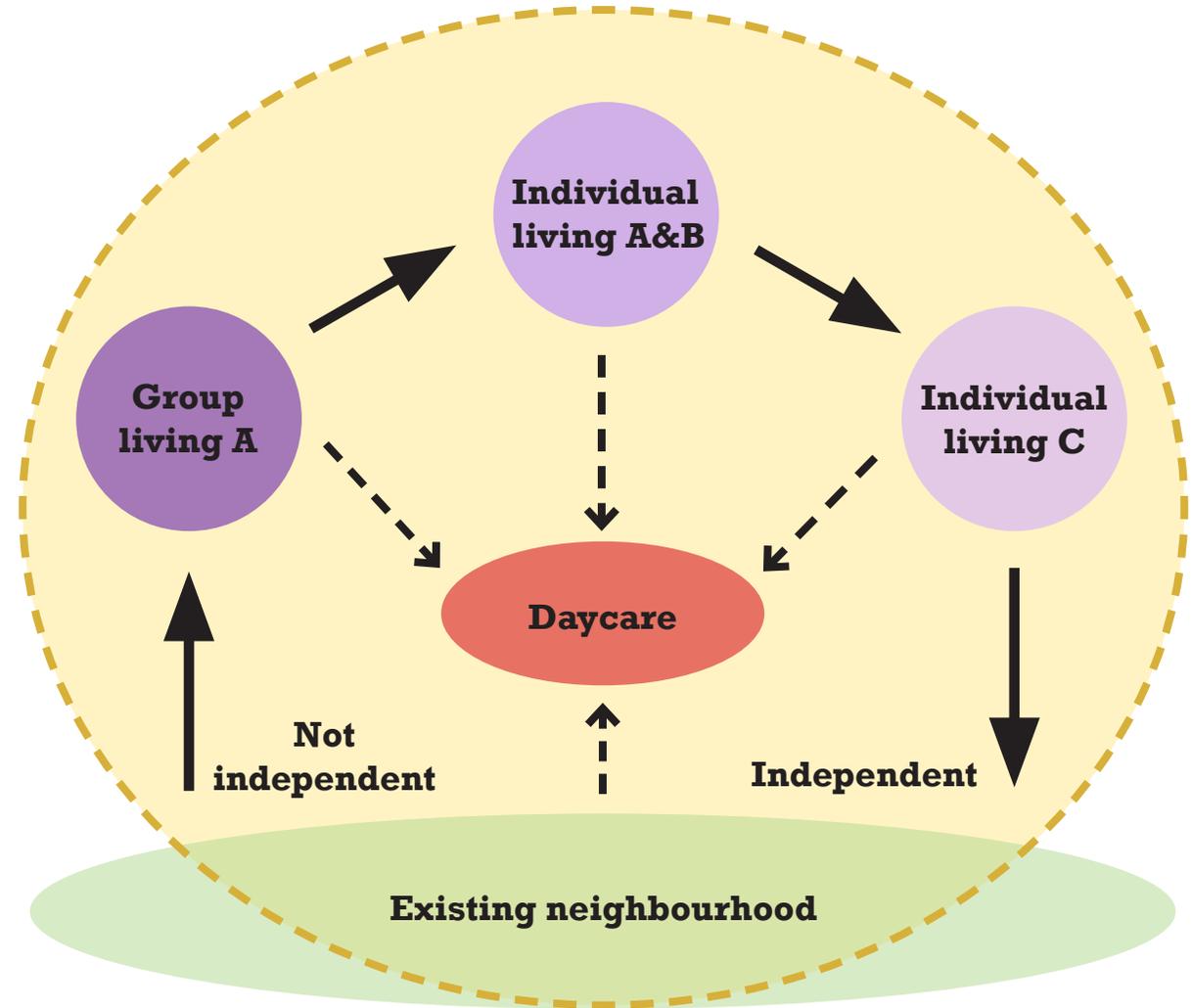
GF Individual unit - Bedroom & bathroom

INDIVIDUAL UNITS

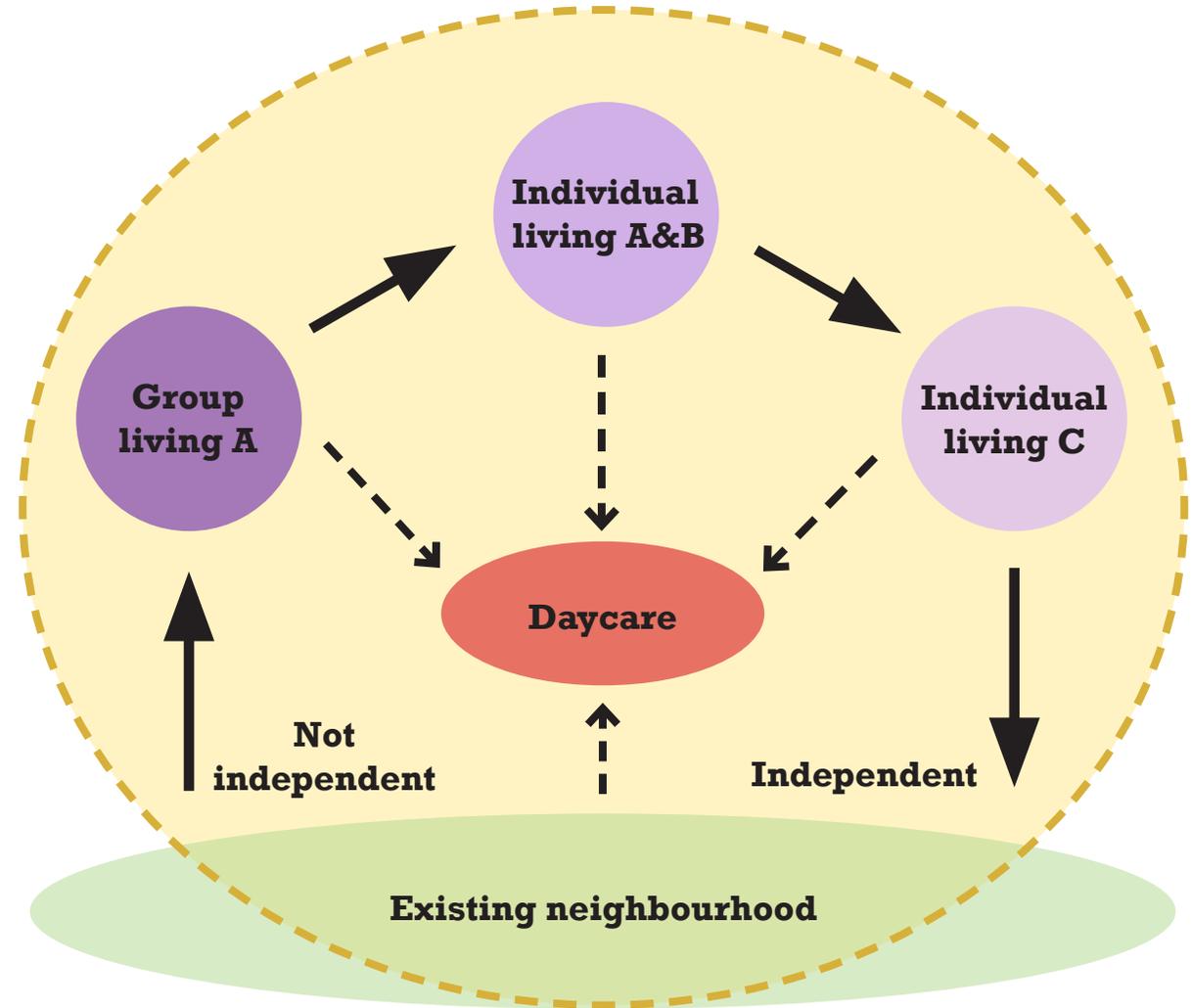
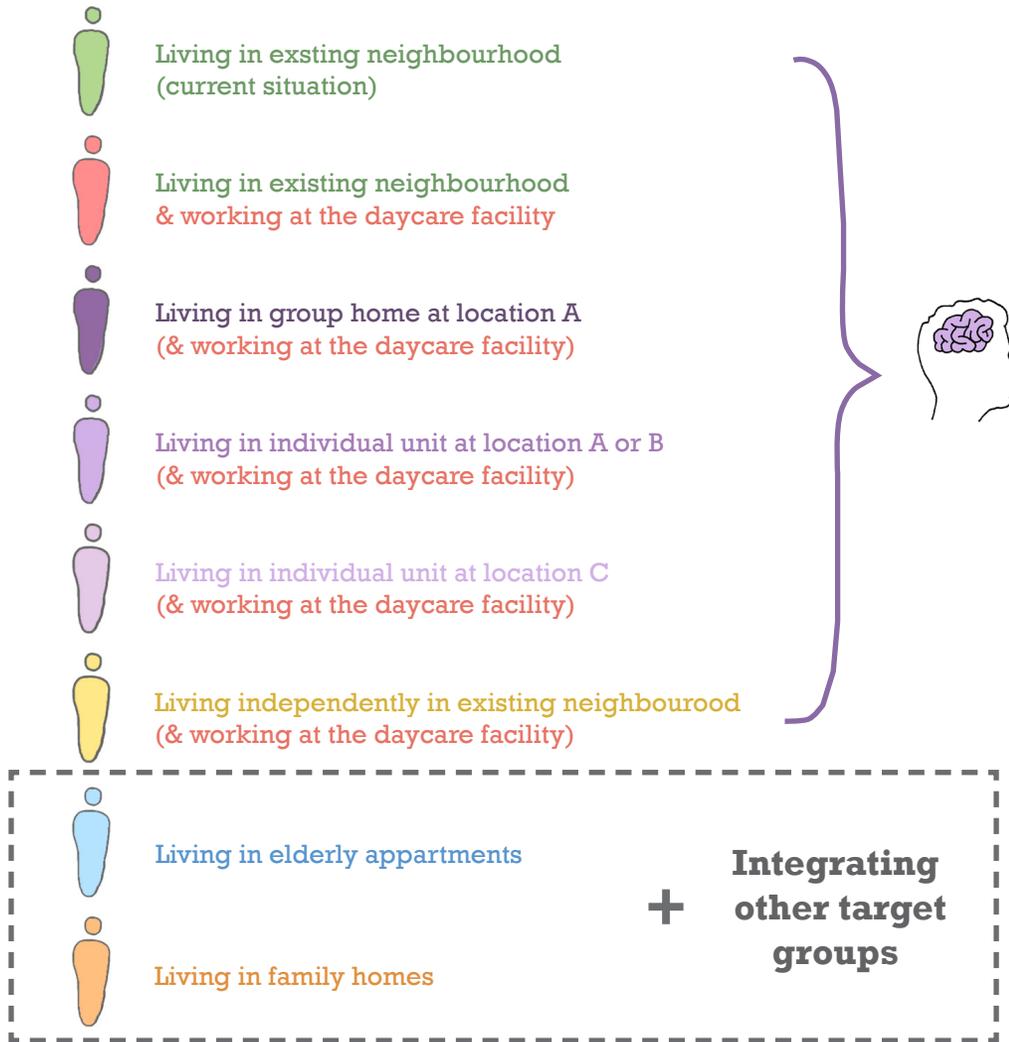


CREATING AN INCLUSIVE NEIGHBOURHOOD

-  Living in existing neighbourhood (current situation)
-  Living in existing neighbourhood & working at the daycare facility
-  Living in group home at location A (& working at the daycare facility)
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-  Living independently in existing neighbourhood (& working at the daycare facility)



CREATING AN INCLUSIVE NEIGHBOURHOOD



ELDERLY APPARTMENTS



 Shared kitchen

 Guest room

 24h care possible

 Close to daycare

FAMILY HOMES

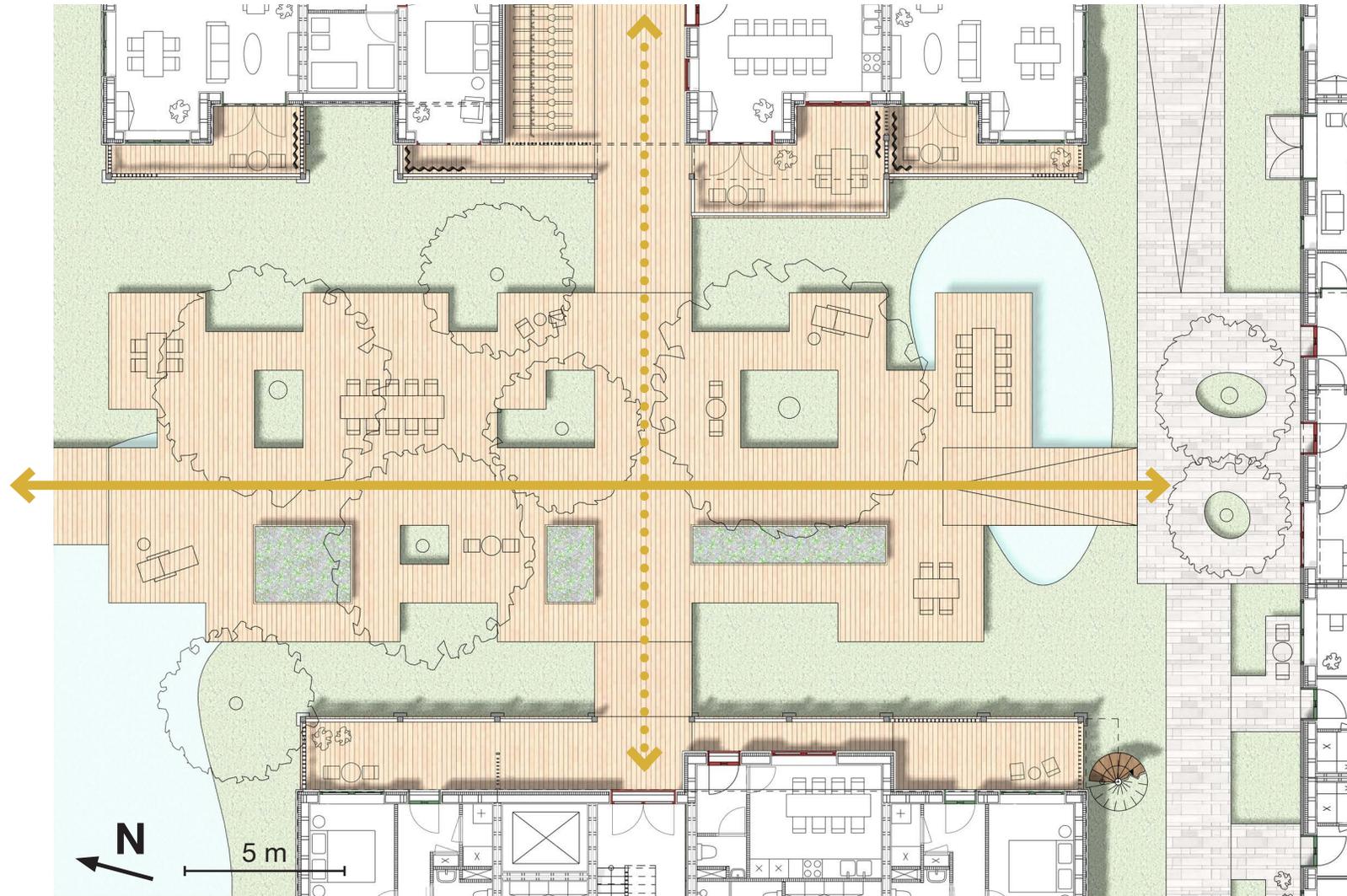


-  Typical shape
-  Green front door
-  Sunspace
-  Private garden

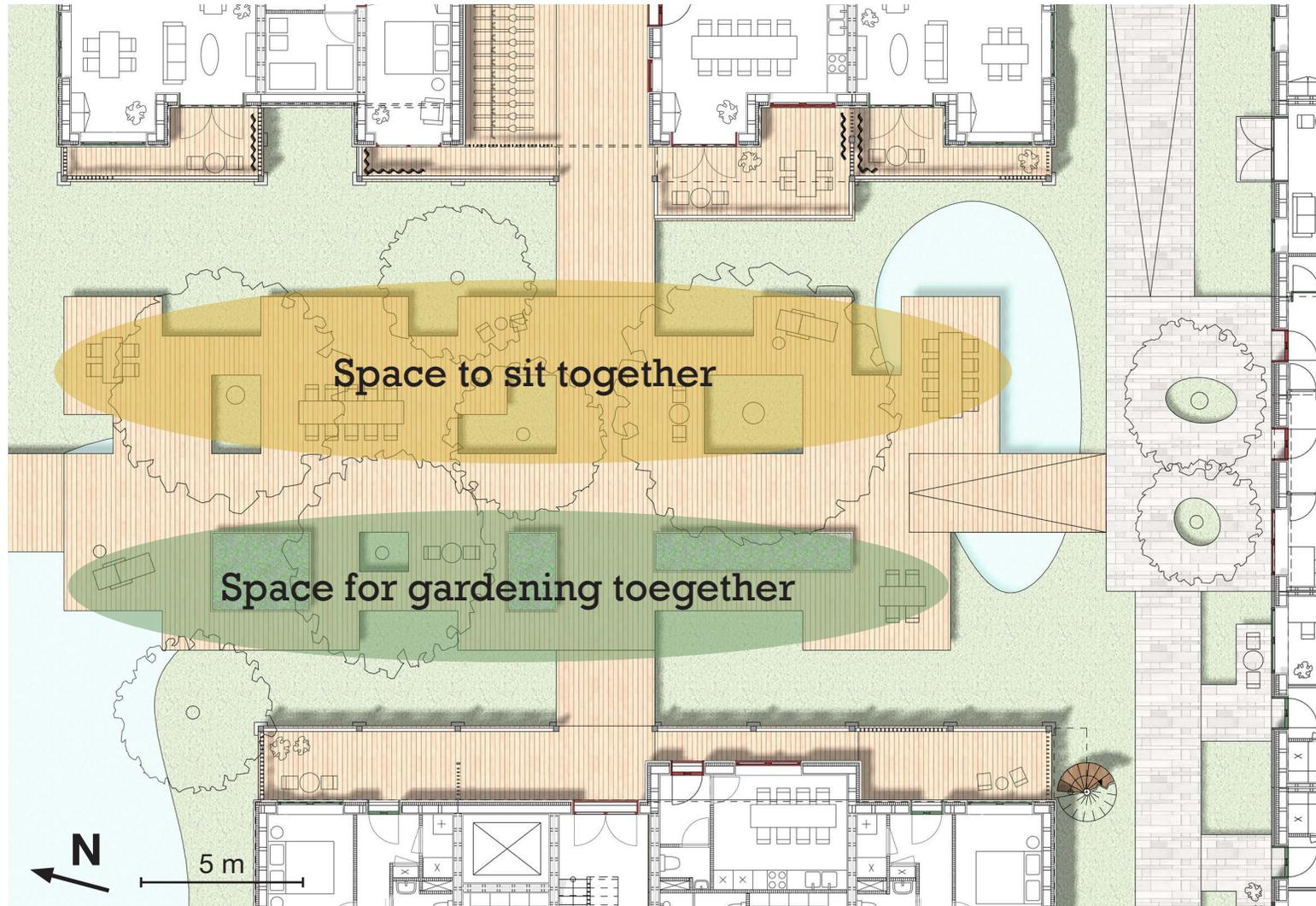
SHARED GARDEN (Guideline G)



SHARED GARDEN (Guideline G)



SHARED GARDEN (Guidelines G & J)



CONTENT



Introduction

Research &
Design guidelines

Design location

Concept

Potential for a new
living environment

Program of
requirements &
mass studies

Explaining the
final concept

Elaboration

Surroundings

Building program
in plans & facades

- Daycare
- Group homes
- Individual homes
- Rest of inclusive
neighbourhood

Technology

Sustainability

Climate

Construction

Fragment & detail

SUSTAINABILITY ASPECTS

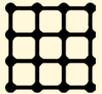
Construction (materials)



Light wooden construction



Prefabricated components



Small standard grid size



Demountable construction
(dry connections)



Biobased materials

SUSTAINABILITY ASPECTS

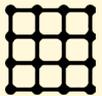
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Biobased materials

Passive house principles



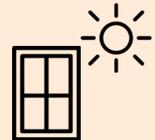
High insulation value



Airtight



No cold bridges



Windows placed according
to the sun orientation



Heat recovery
(ventilation type D)

SUSTAINABILITY ASPECTS

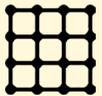
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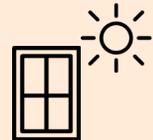
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to the sun orientation



Heat recovery
(ventilation type D)

Design choices



Green/energy roofs



Nature inclusive



Considerate water
management system

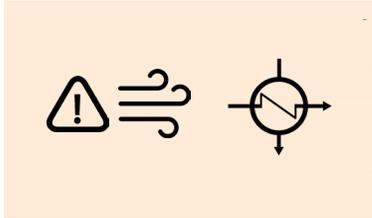


Use of sunspaces
(winter gardens)

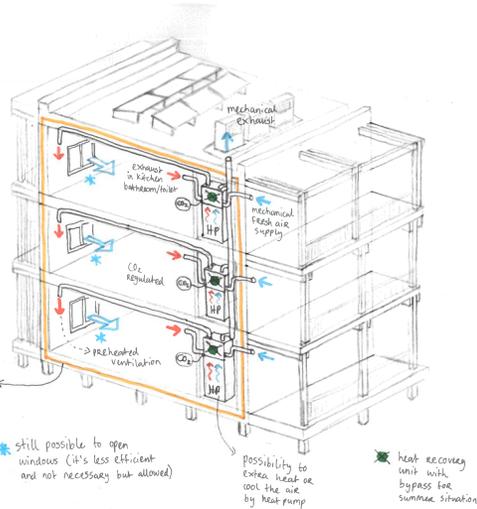


Appropriate sunshading

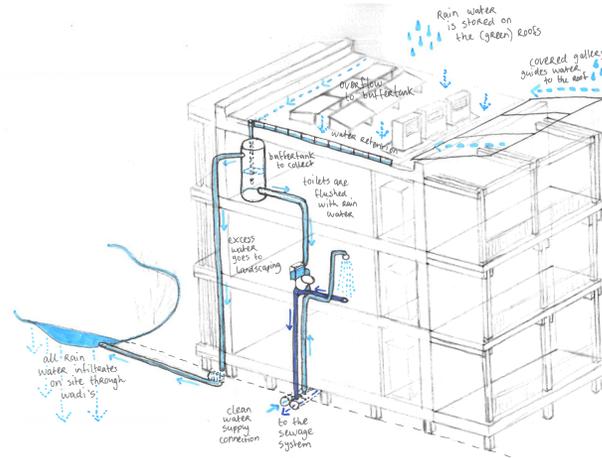
CLIMATE ELABORATION



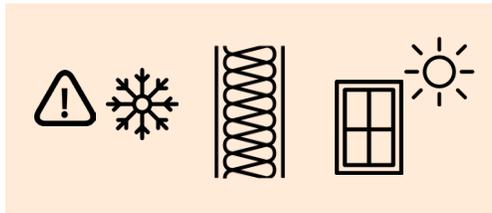
Ventilation system



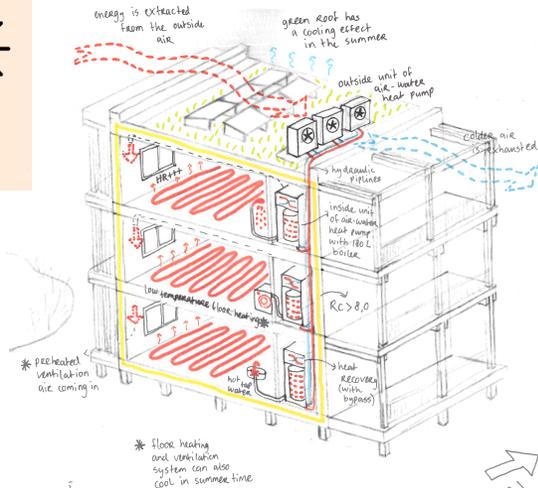
- still possible to open windows (it's less efficient and not necessary but allowed)
- possibility to extract heat or cool the air by heat pump
- heat recovery unit with bypass for summer situation



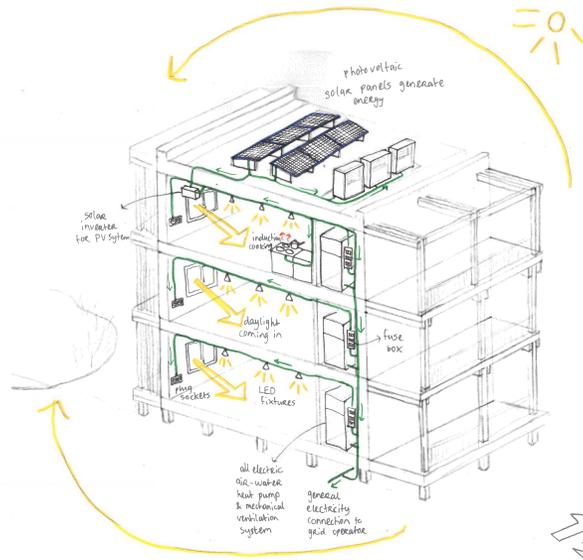
Water management



Heating/cooling system



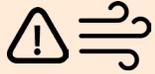
- preheated ventilation air coming in
- floor heating and ventilation system can also cool in summer time



Light/energy system

CLIMATE ELABORATION

Passive house principles



Airtight

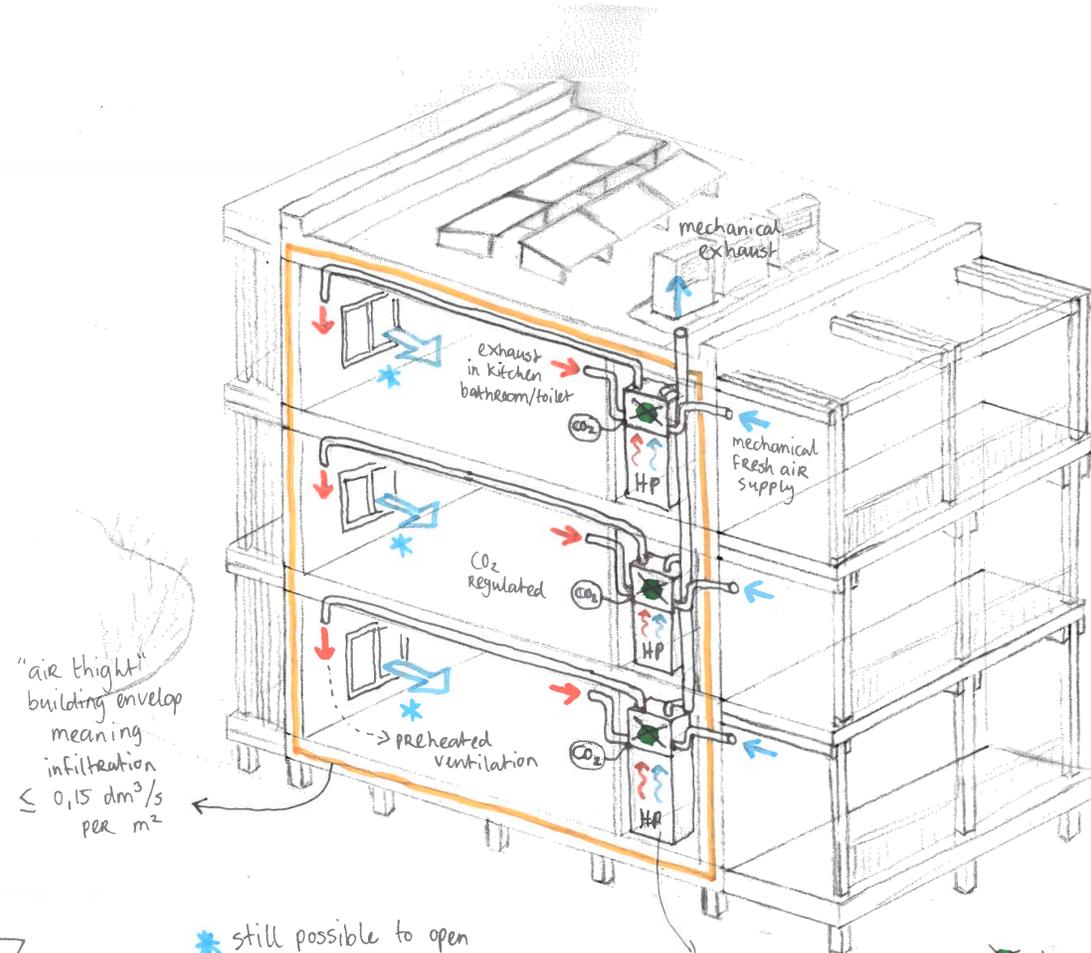


Heat recovery
(ventilation type D)

Specifically for MID



Automatically
CO₂ regulated



Ventilation system

CLIMATE ELABORATION

Design choices



Green/energy roofs



Nature inclusive

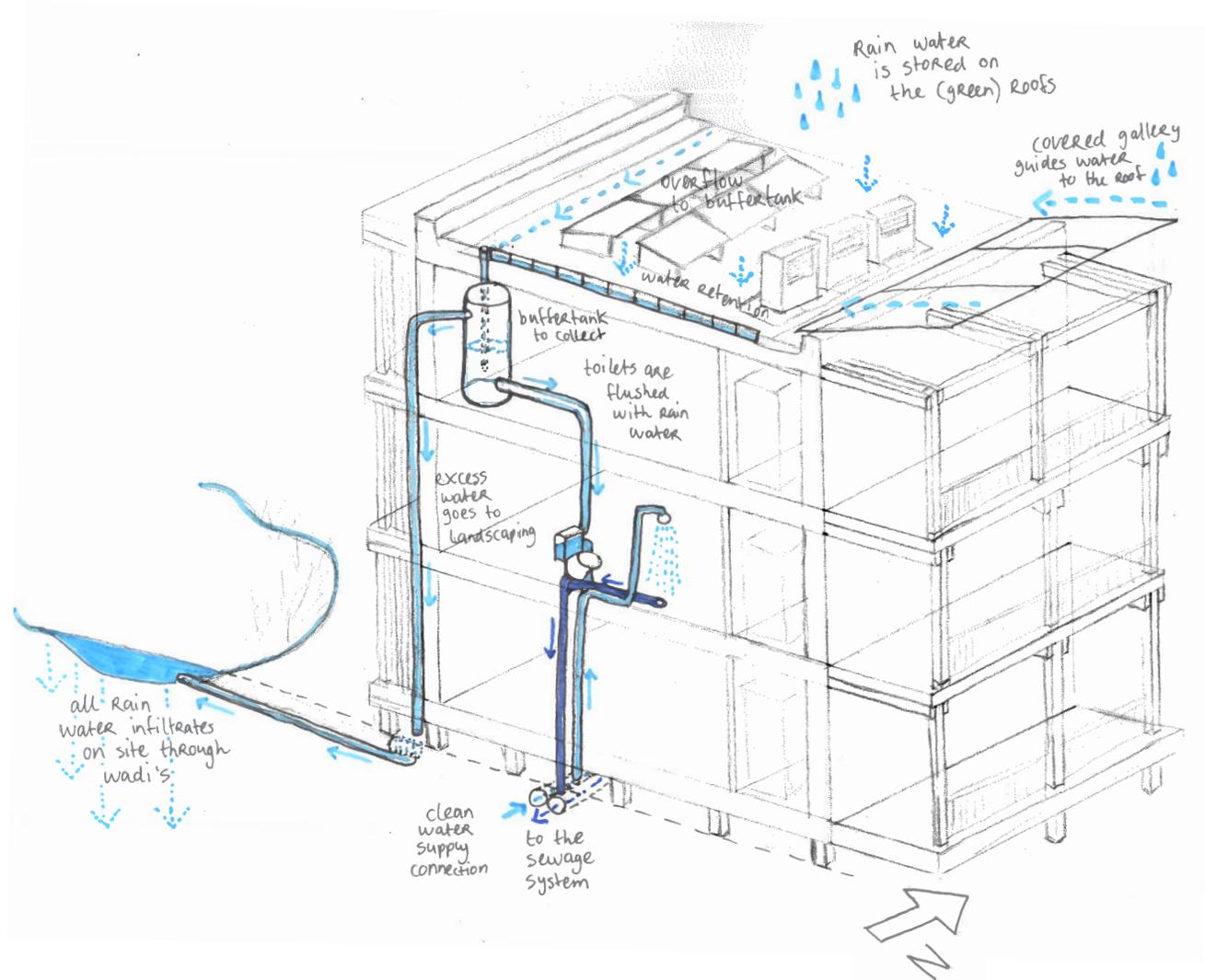


Considerate water management system

Specifically for MID

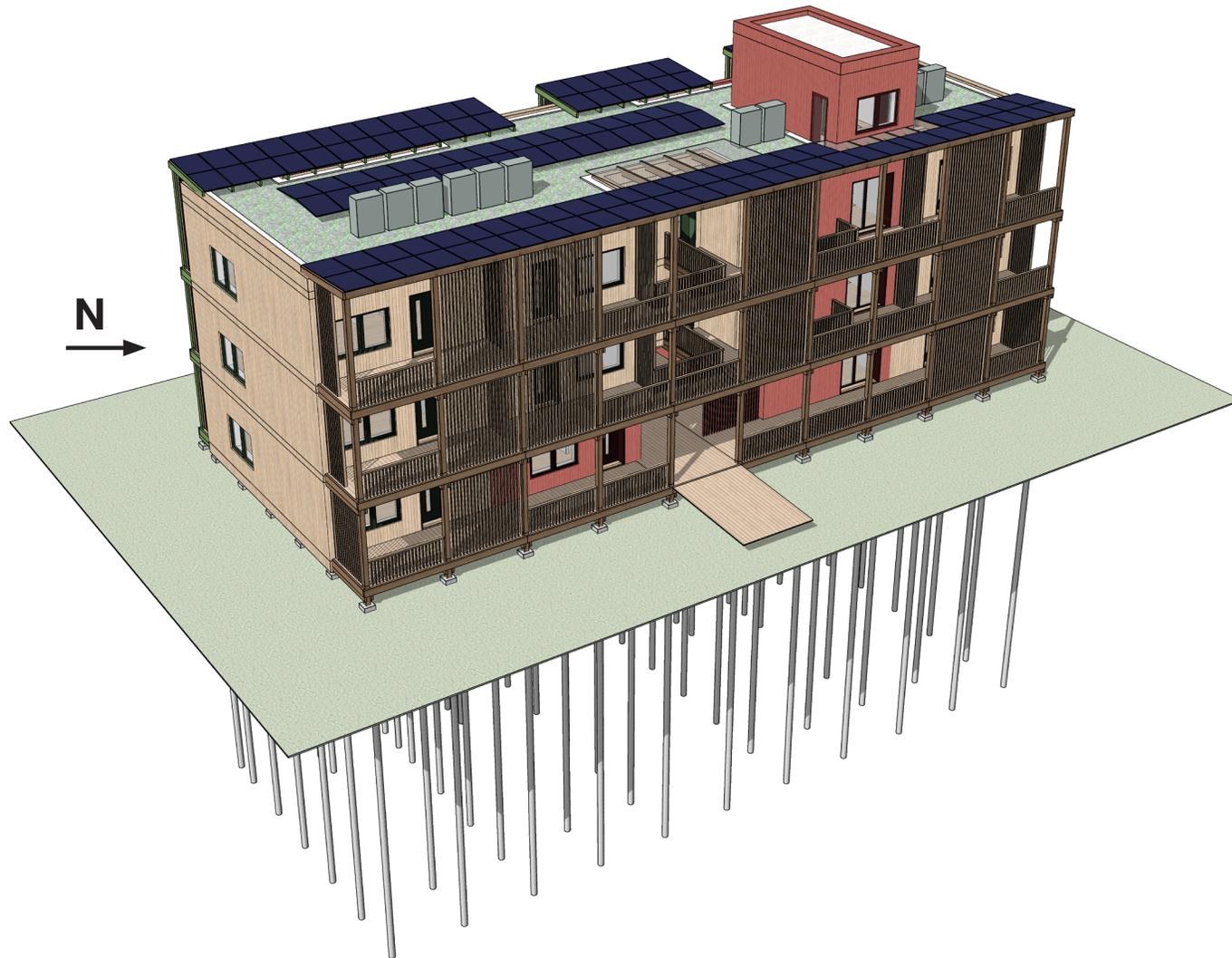


Sensory design



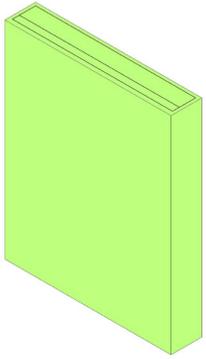
Water system

CONSTRUCTION ELABORATION

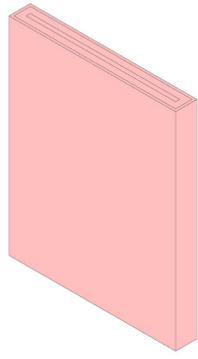


CONSTRUCTION ELABORATION

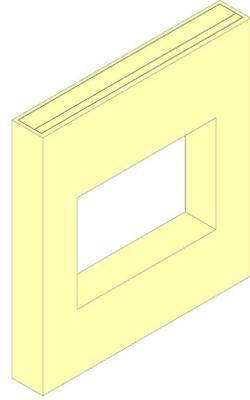
(Measurements LxWxH)



Structural timber frame facade panel (2400x424x3000mm)



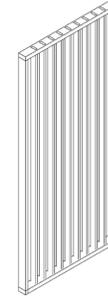
Structural timber frame partition wall panel (2400x308x3000mm)



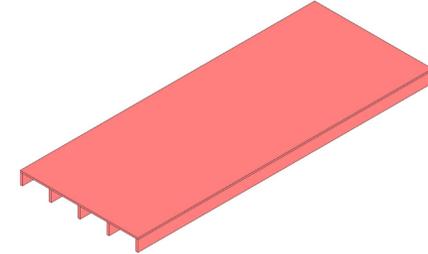
Non structural timber frame facade panel (3000x424x2825mm)



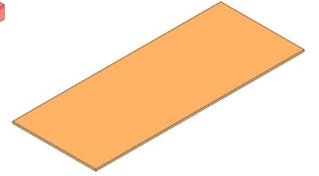
Non structural timber frame wall panel (1200x100x3000mm)



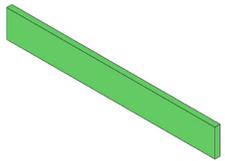
Non structural timber slats panel/railing (1200x100x3000mm)



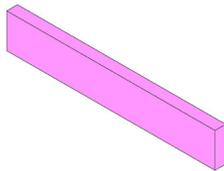
Structural timber hollow core slab floor (6000x2400x256mm)



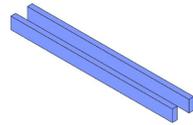
Structural timber gallery floor slab (3000x1200x25mm)



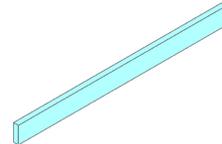
Structural glulam beam (3000x75x400m)



Timber frame roof trim element (3000x155x500m)



Double C18 timber structural beam (2400x70x170mm)



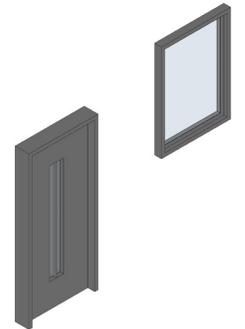
Single C18 timber structural beam (3000x100x255mm)



Prefabricated concrete foundation pile (15000xØ220mm)



Structural glulam column (3256x170x170mm)



Wooden door & window framing (1000x(2200-1400)mm)

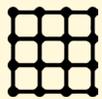
CONSTRUCTION ELABORATION



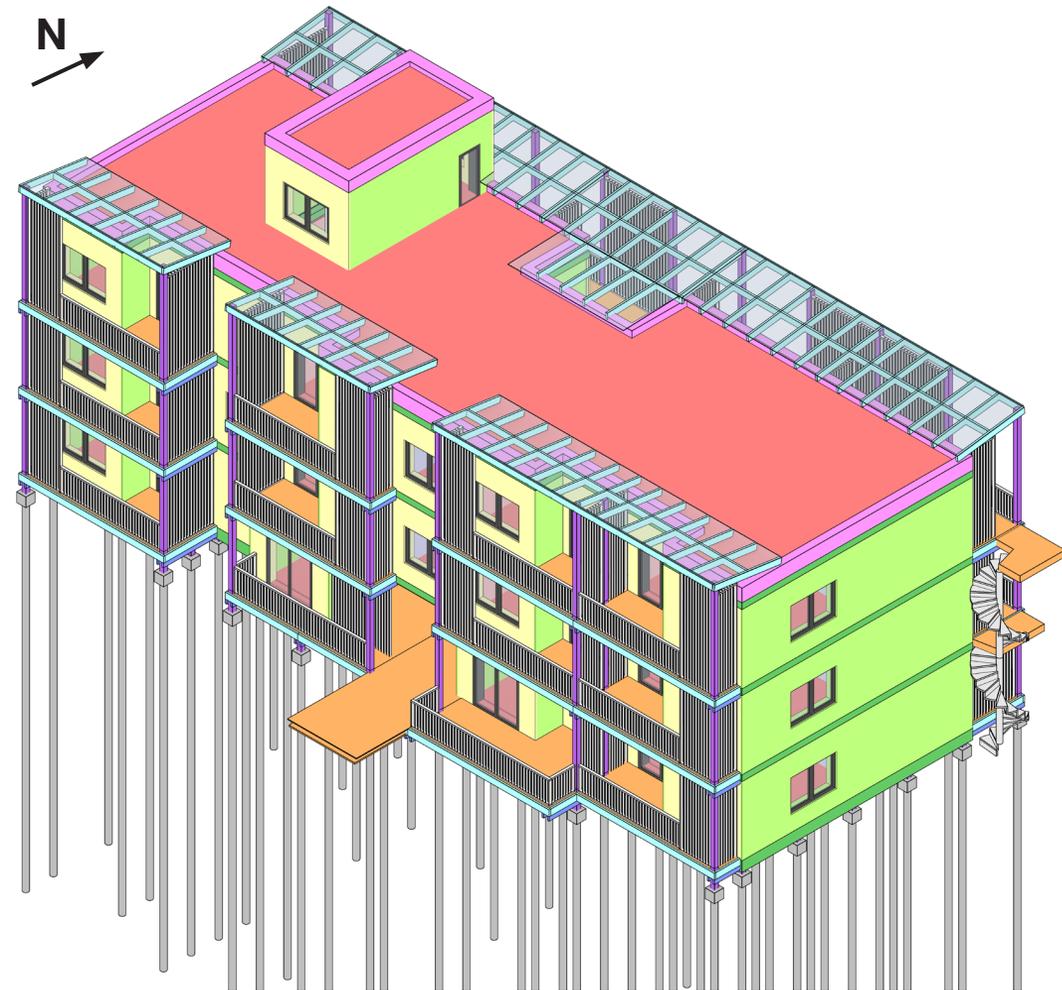
Light wooden construction



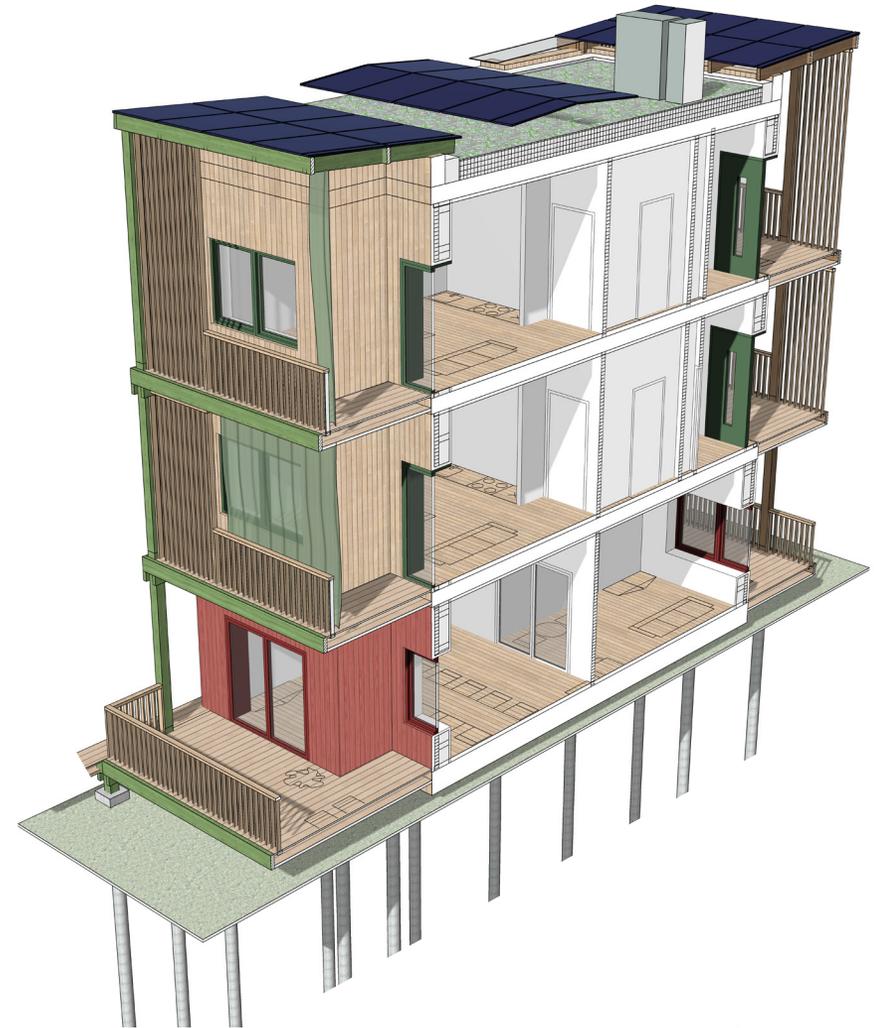
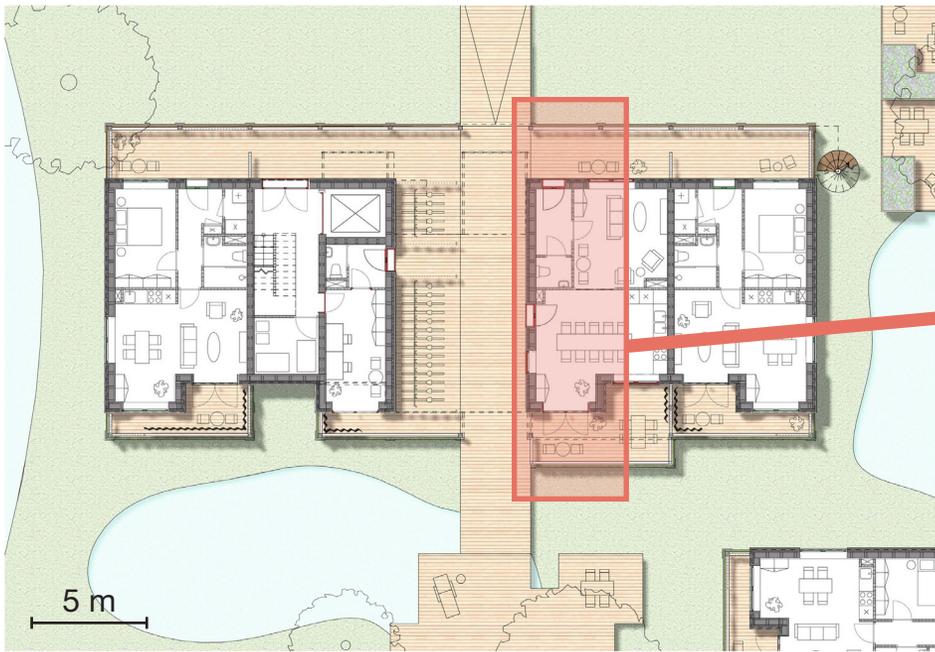
Prefabricated components



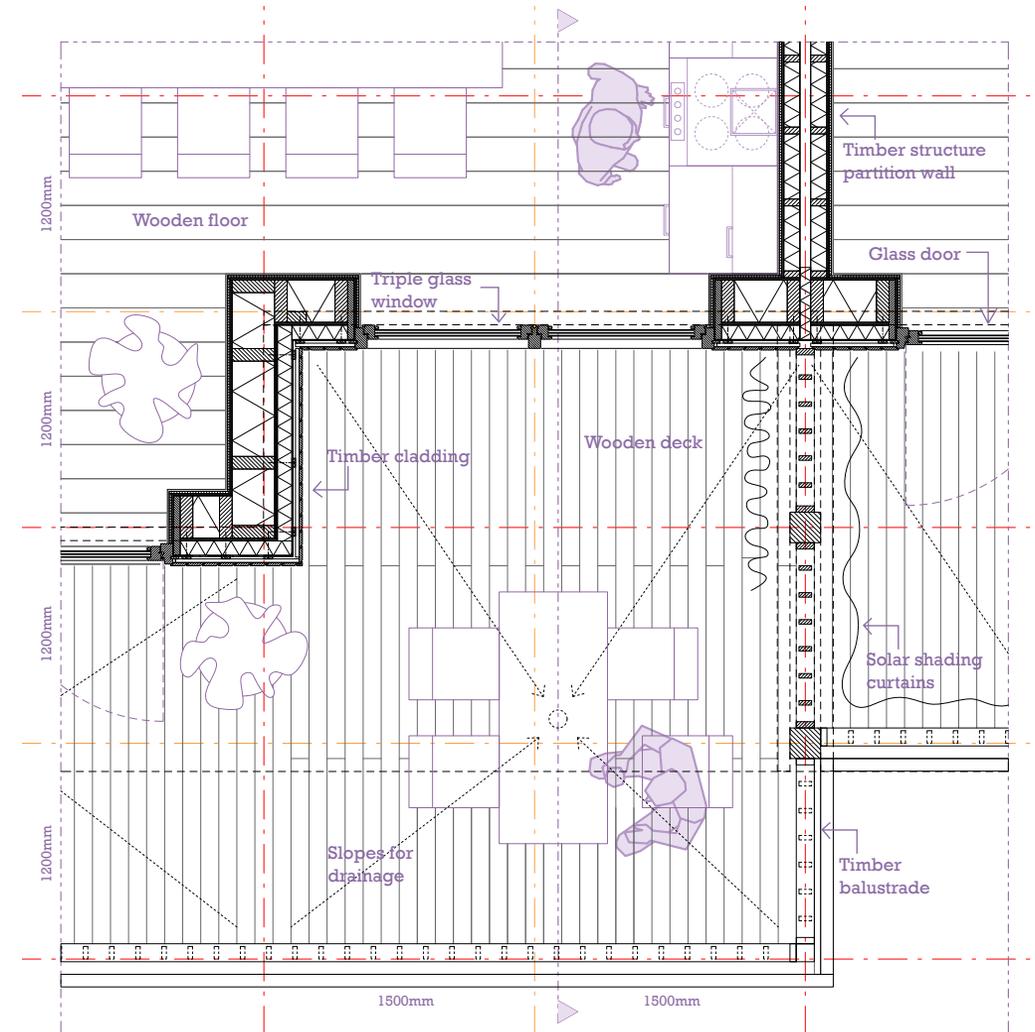
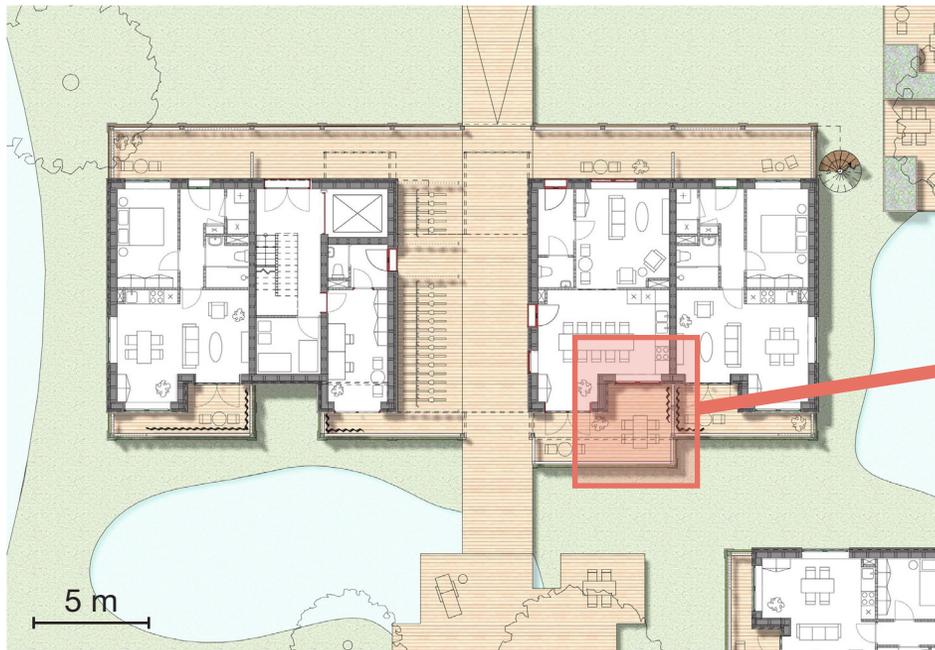
Small standard grid size



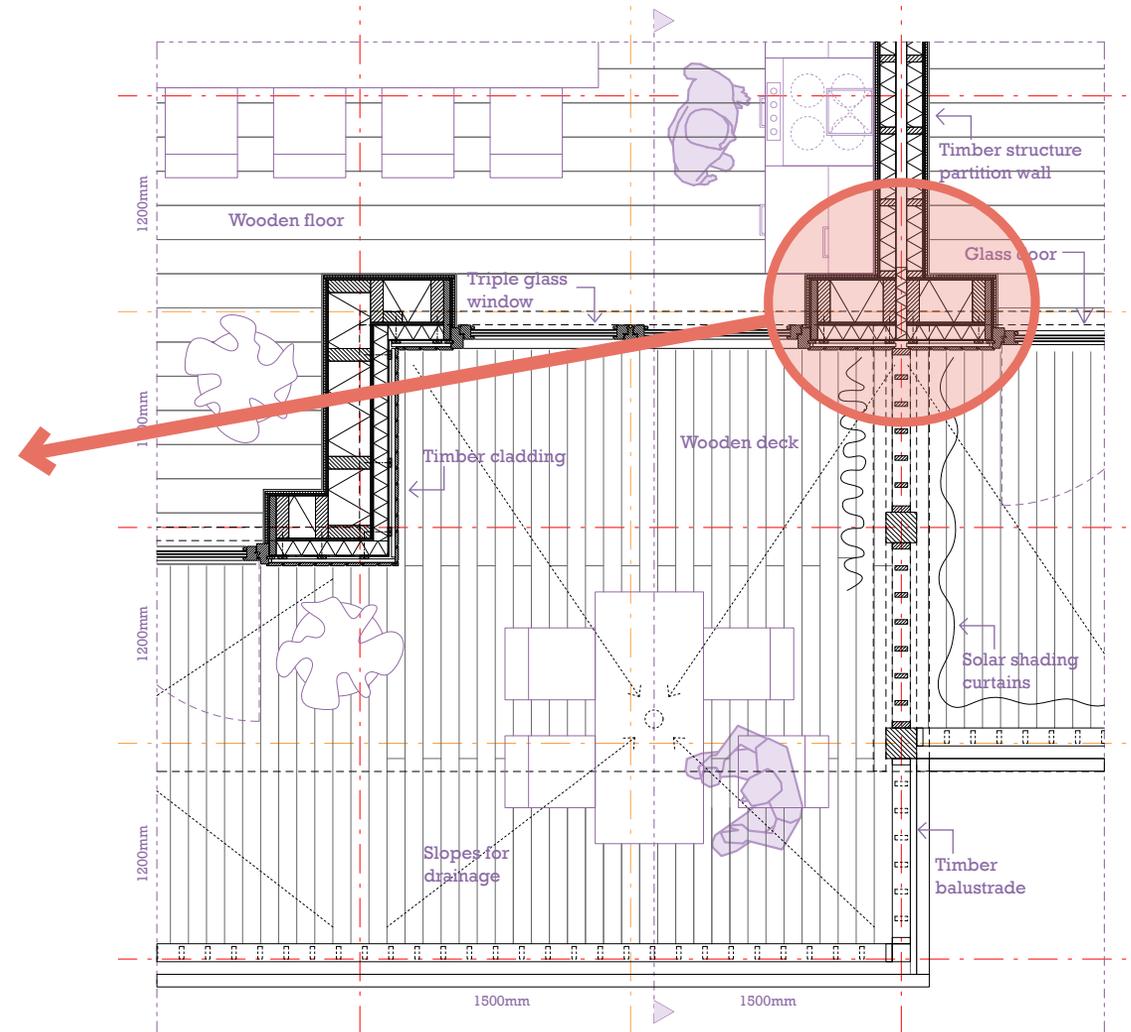
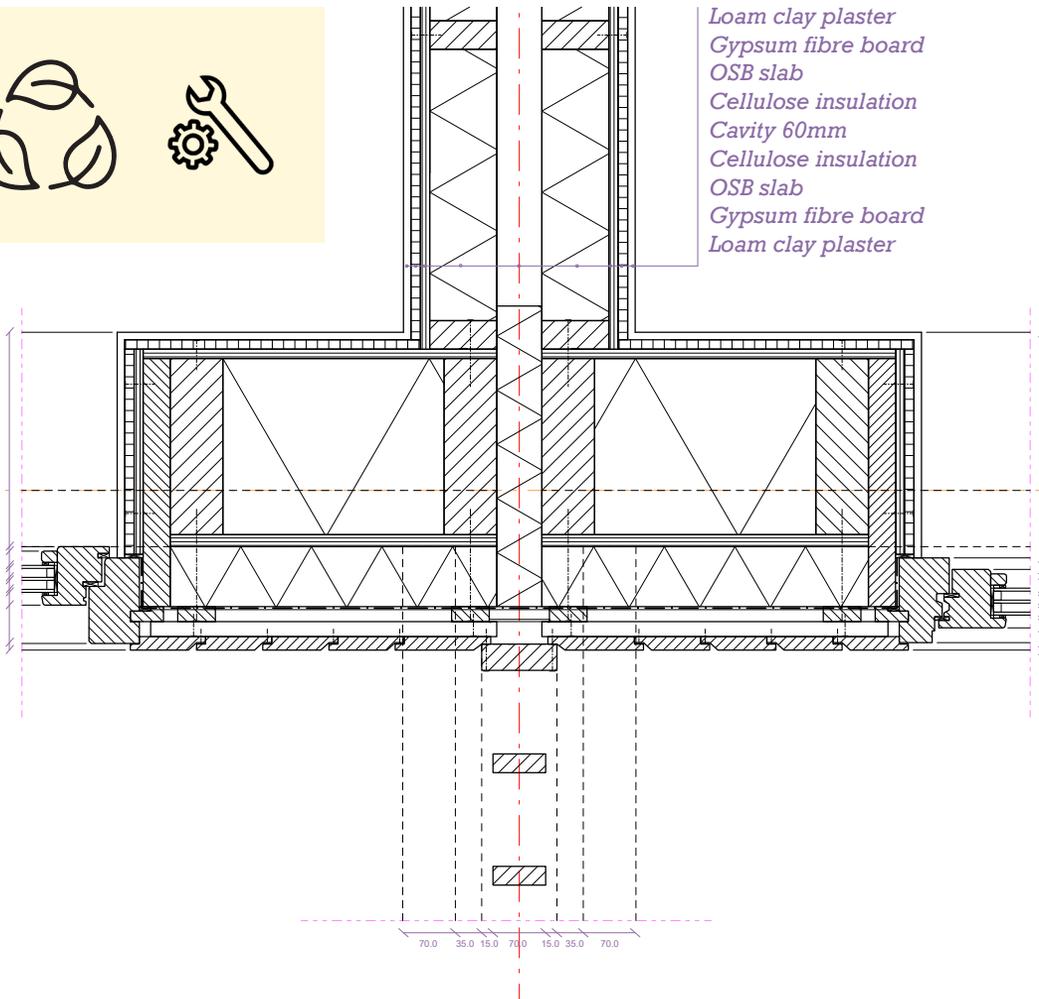
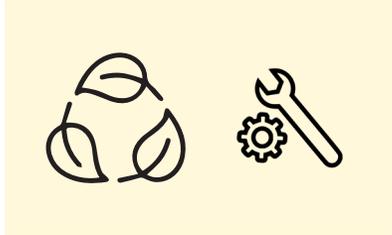
FRAGMENT ELABORATION



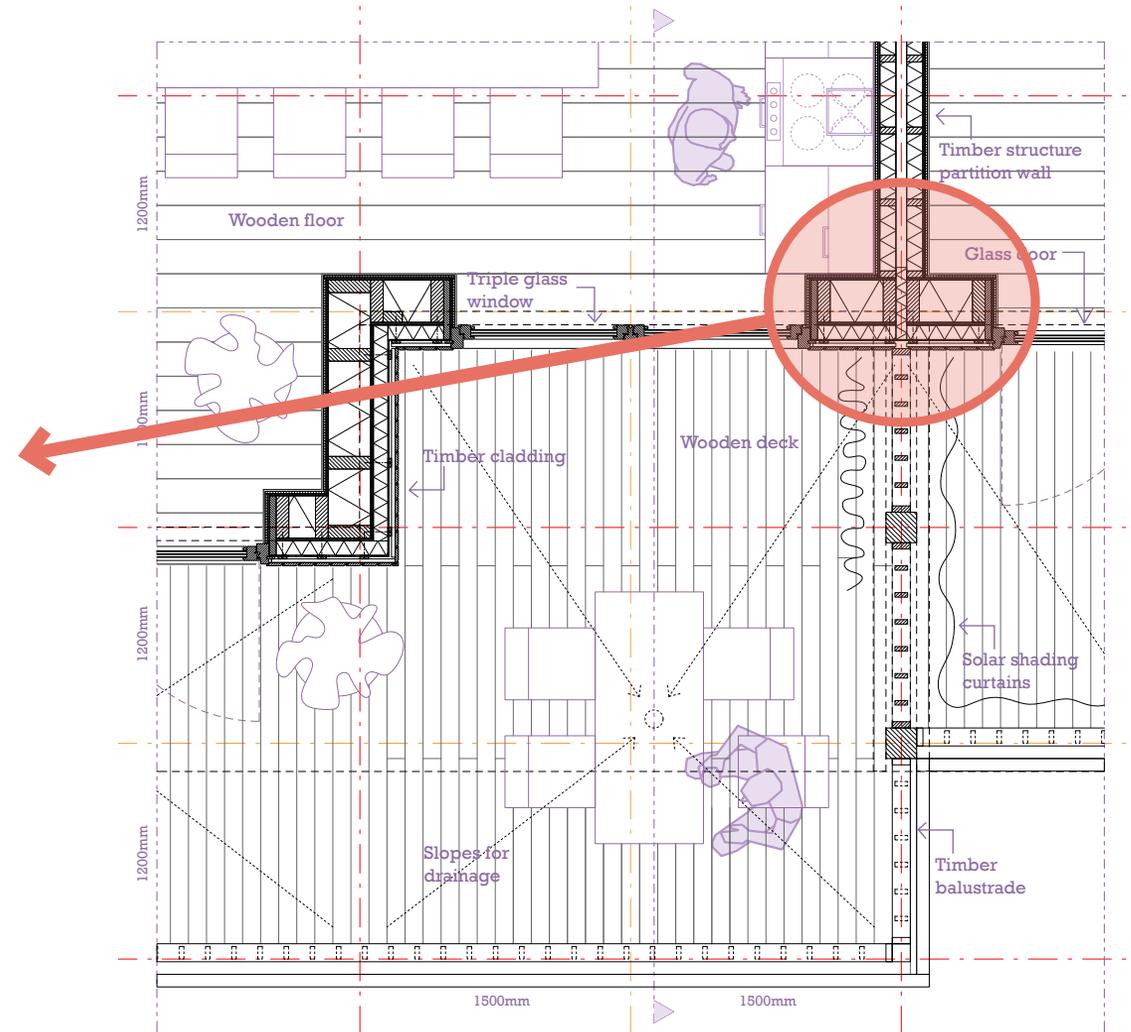
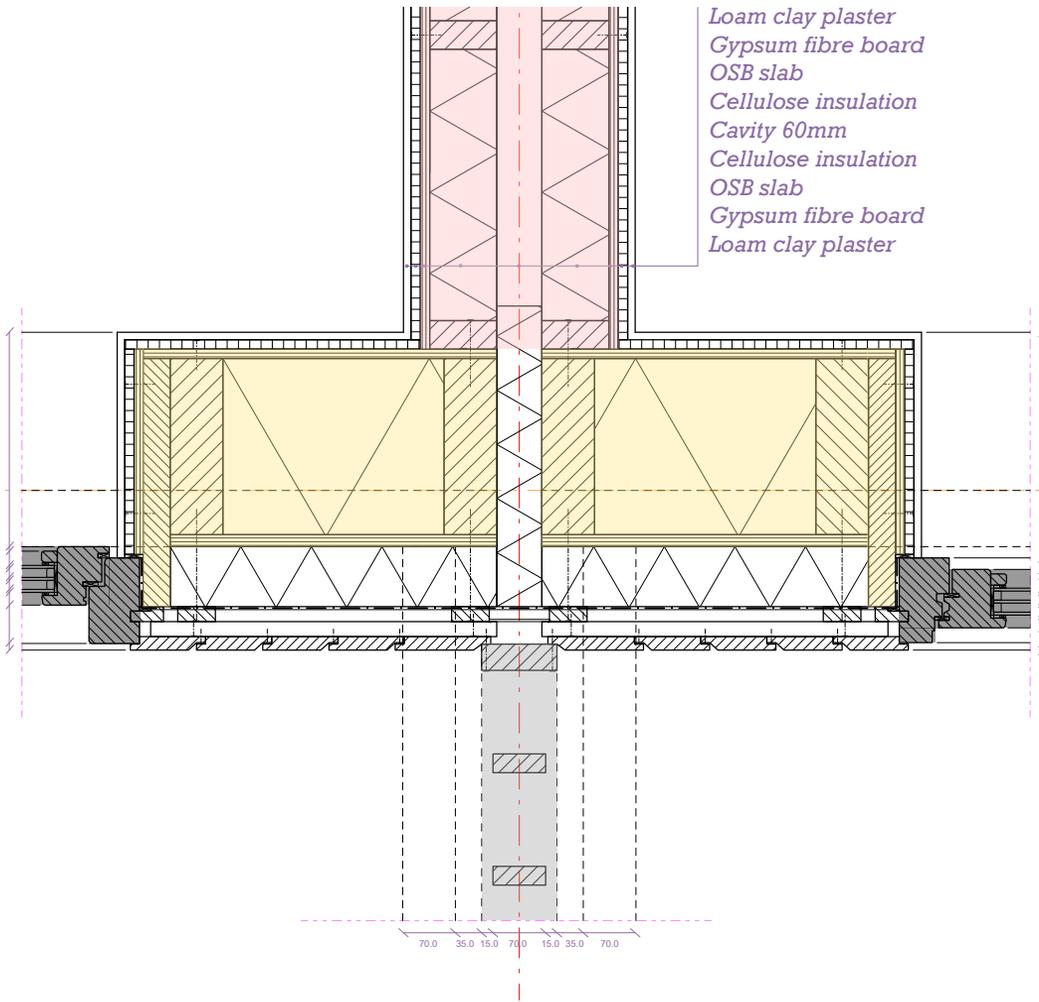
FRAGMENT ELABORATION



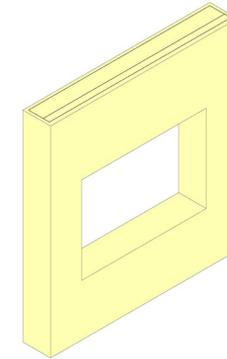
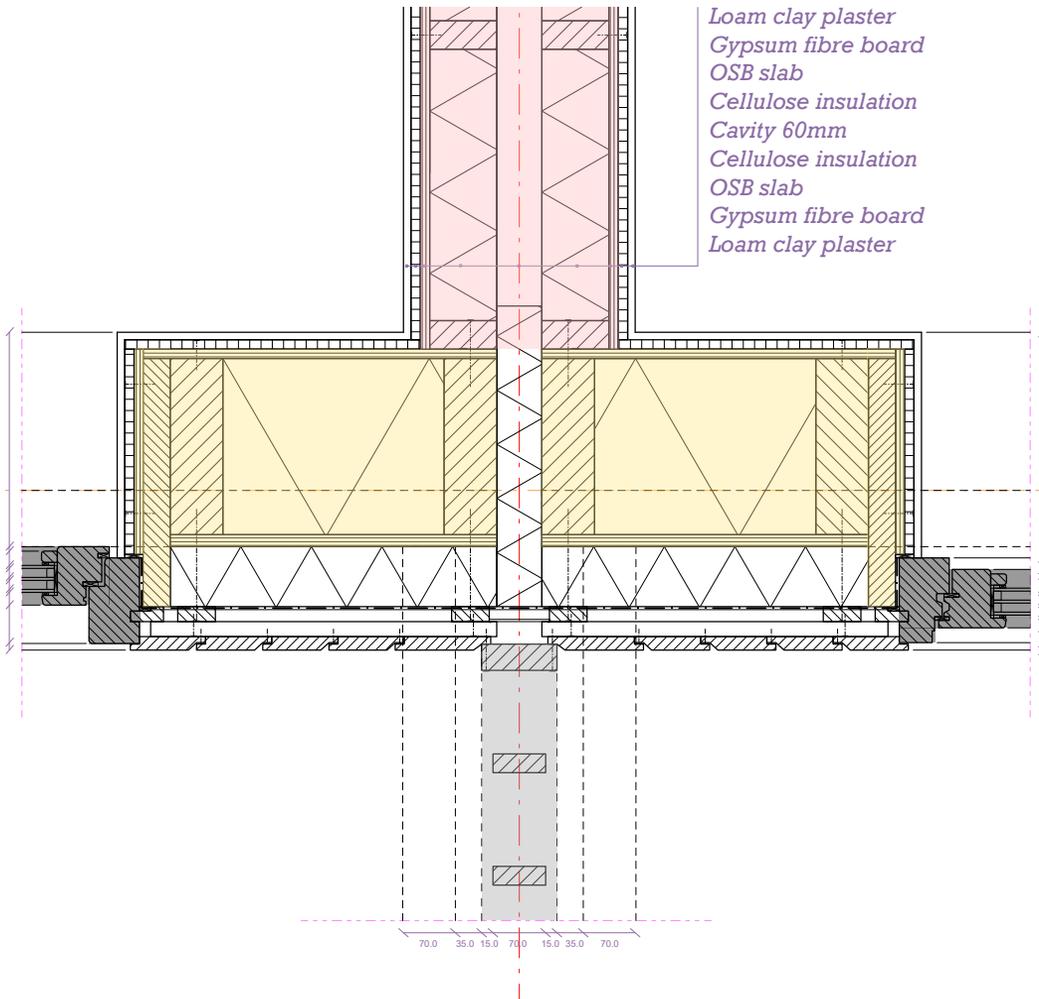
DETAIL ELABORATION



DETAIL ELABORATION



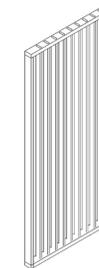
DETAIL ELABORATION



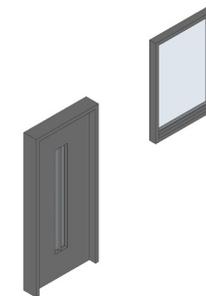
Non structural timber frame facade panel (3000x424x2825mm)



Structural timber frame partition wall panel (2400x308x3000mm)

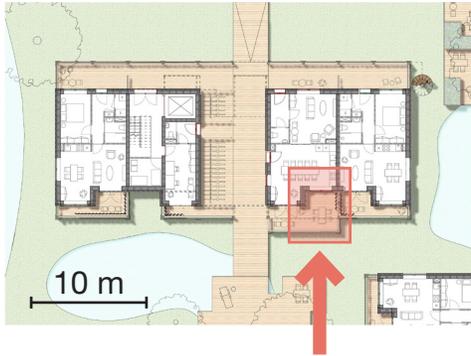


Non structural timber slats panel/railing (1200x100x3000mm)



Wooden door & window framing (1000x(2200-1400)mm)

FRAGMENT ELABORATION



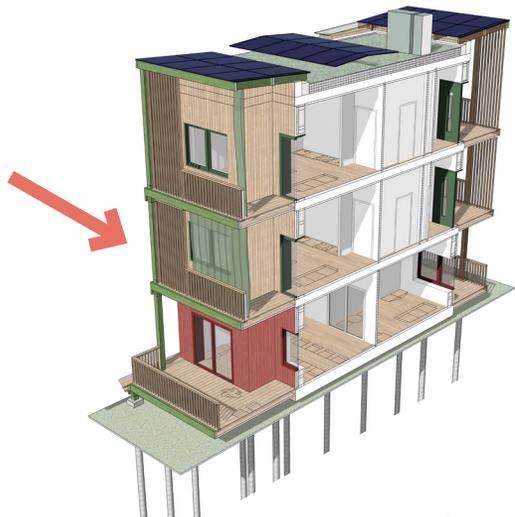
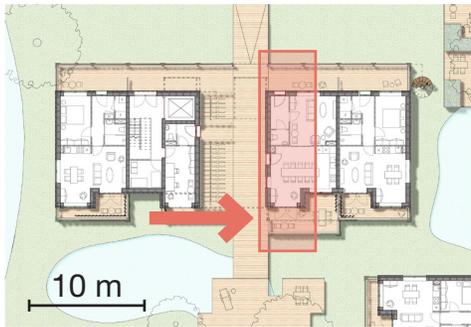
136

Outer facade elevation (1:20 originally)

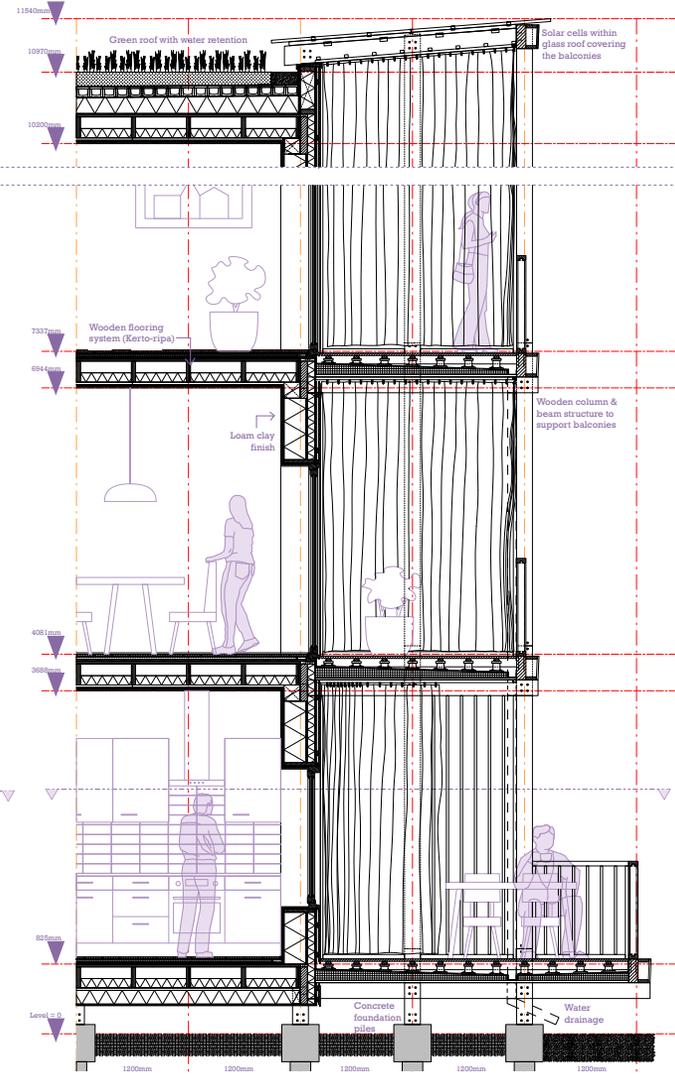
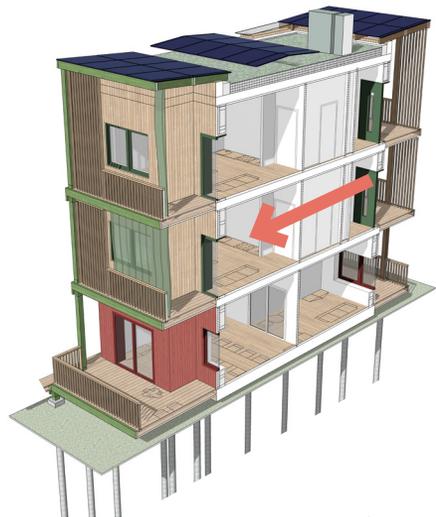
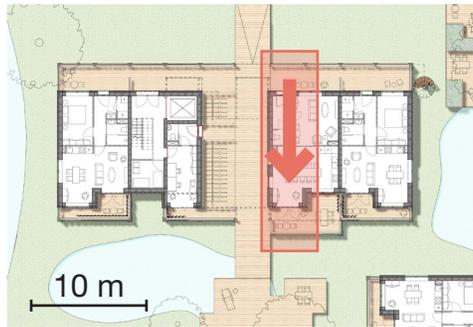


Marit van 't Walderveen - 4841905

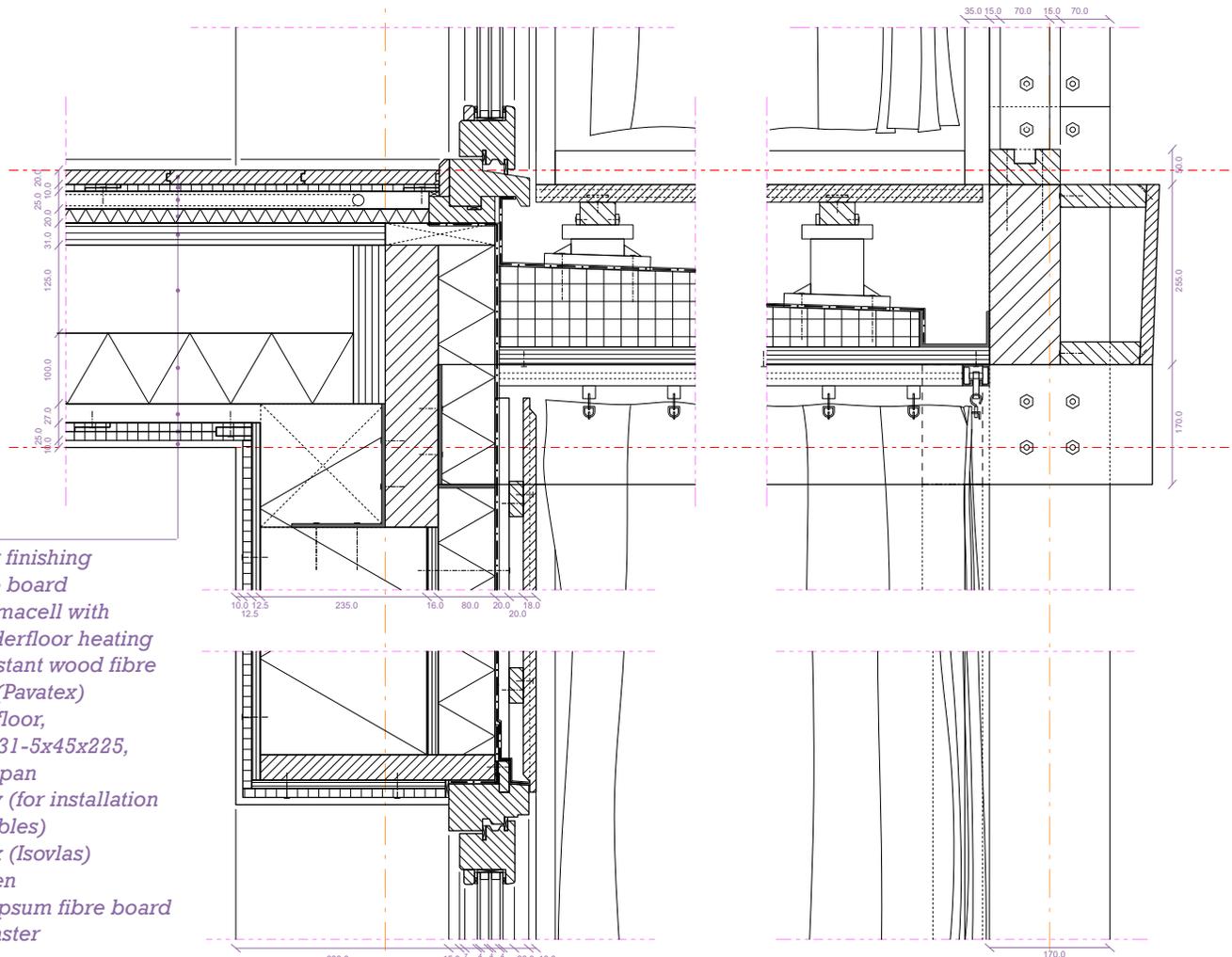
FRAGMENT ELABORATION



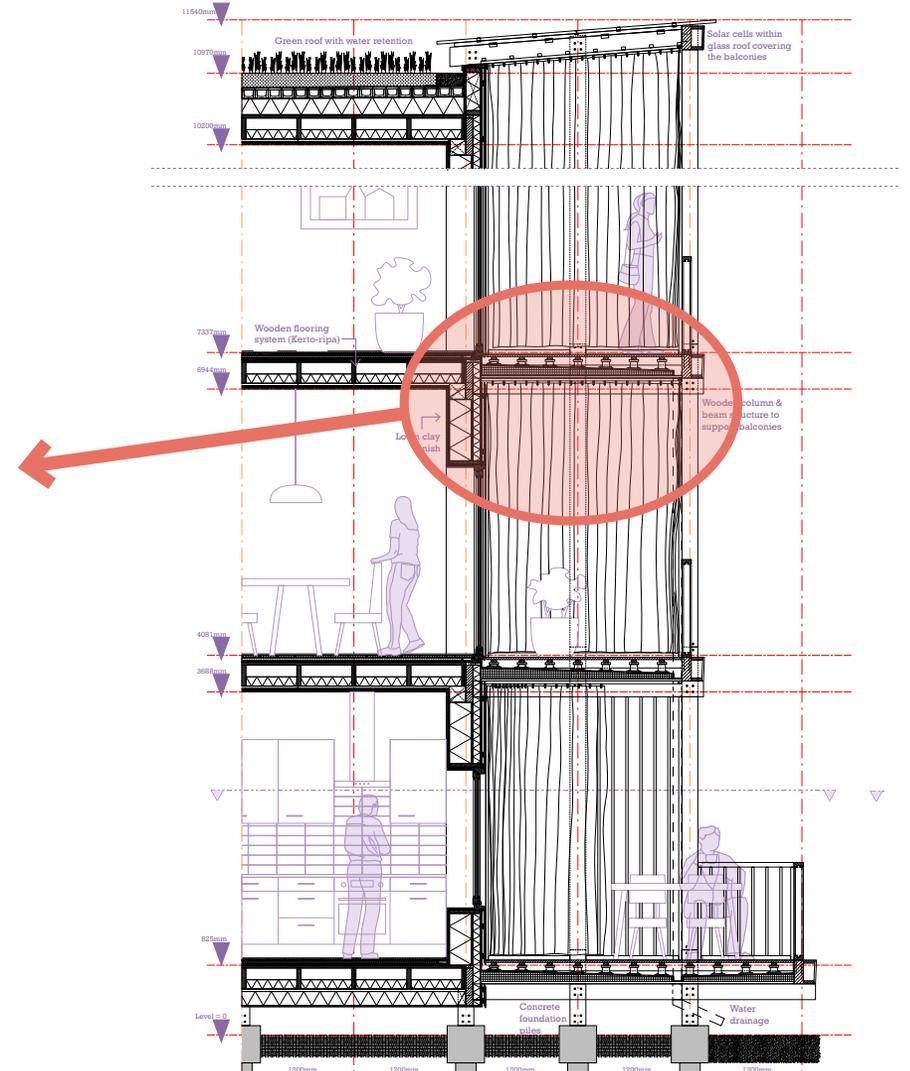
FRAGMENT ELABORATION



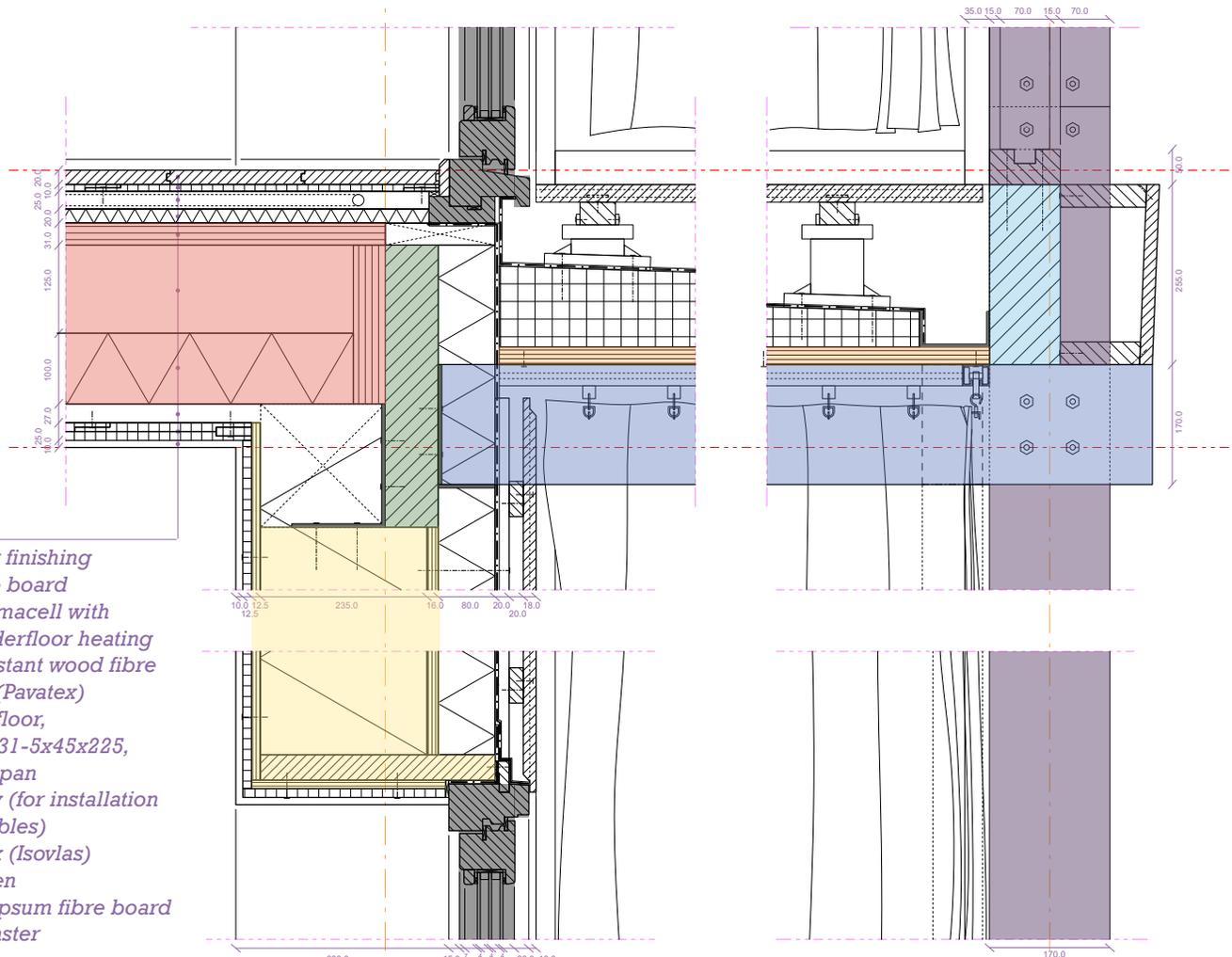
DETAIL ELABORATION



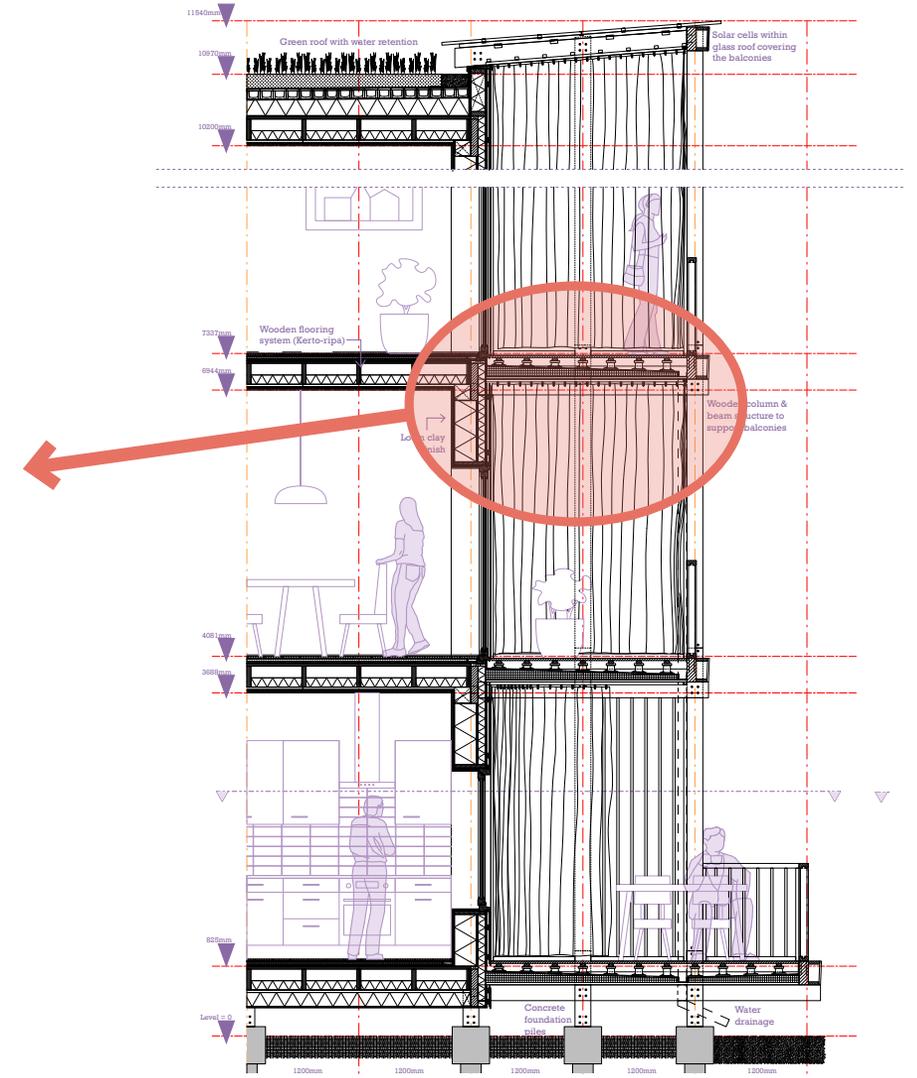
Wooden floor finishing
Gypsum fibre board
Therm 25 fermacell with
16 mm underfloor heating
Pressure-resistant wood fibre insulation (Pavatex)
Kerto-Ripa T floor,
KRT-2400x31-5x45x225,
6000 mm span
Service cavity (for installation pipes & cables)
Insulation flax (Isovlas)
Wooden batten
2x Ceiling gypsum fibre board
Loam clay plaster



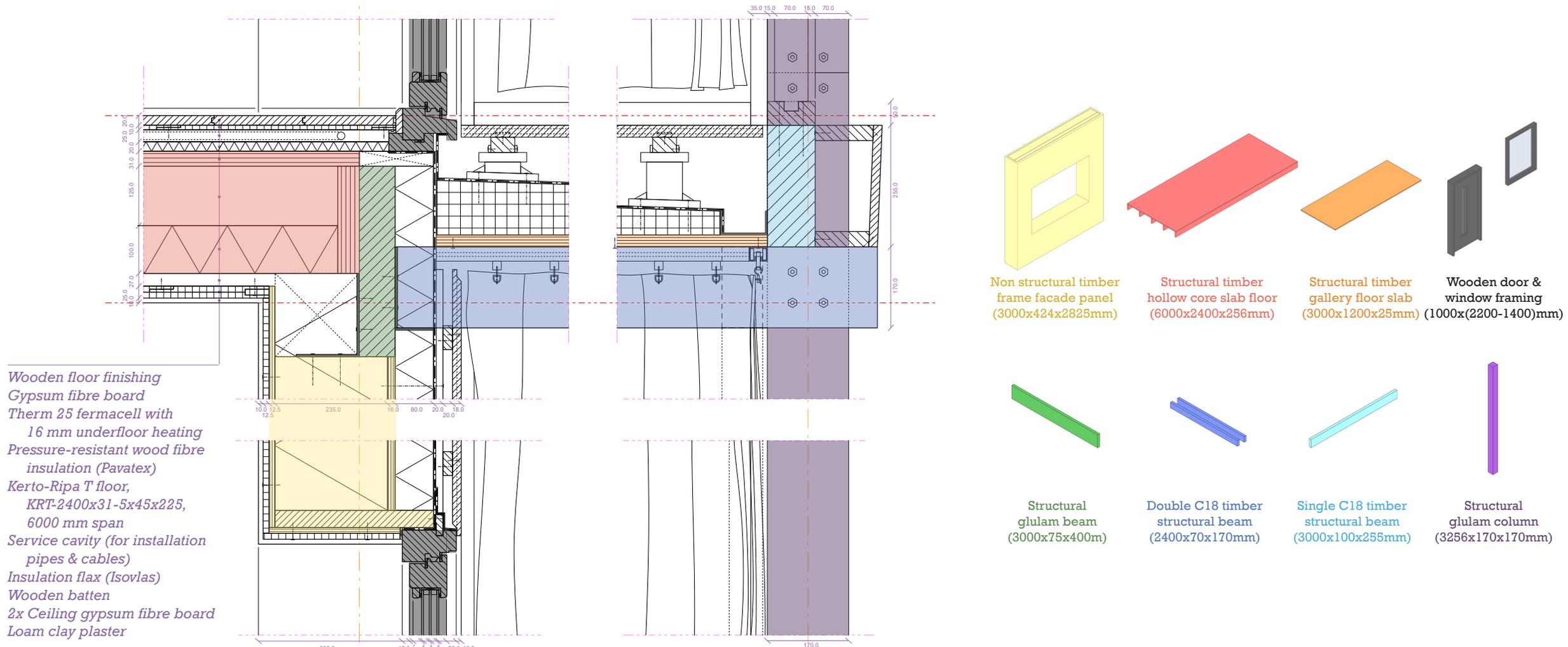
DETAIL ELABORATION



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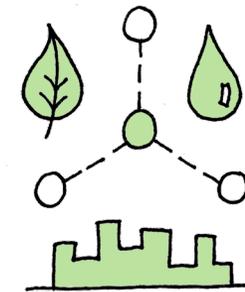


DETAIL ELABORATION



GROWING INTO INDEPENDENCE →

A research on enhancing social engagement in the living environment of adults with a Mild Intellectual Disability within urban green-blue grids



GROWING INTO INDEPENDENCE

Thank you for listening!

