

# SENIOR HOUSING IN FRIHAMNEN\_GÖTEBORG

- SMALL HOUSING IN AN URBAN CONTEXT

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Master Program Architecture

**VISION FOR FUTURE HEALTHCARE, HOUSING & WORK**

AUT163 Residential Healthcare - Housing for seniors

Autum Term 2016\_Chalmers Tekniska Högskola



BTA : 9122 m<sup>2</sup>  
Site : 4147 m<sup>2</sup>

(E) : 2.2

# INTRODUCTION



1927

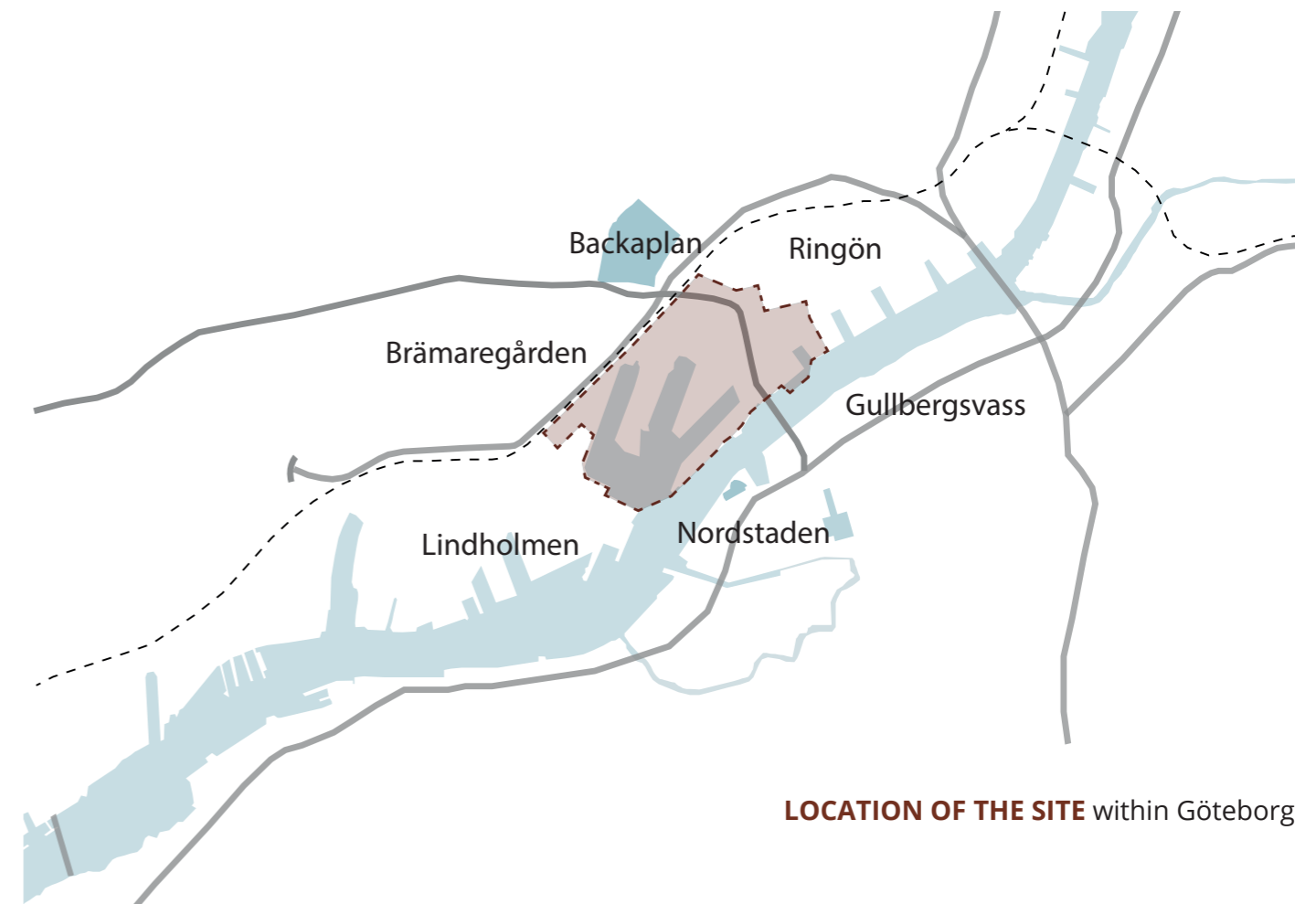


2016

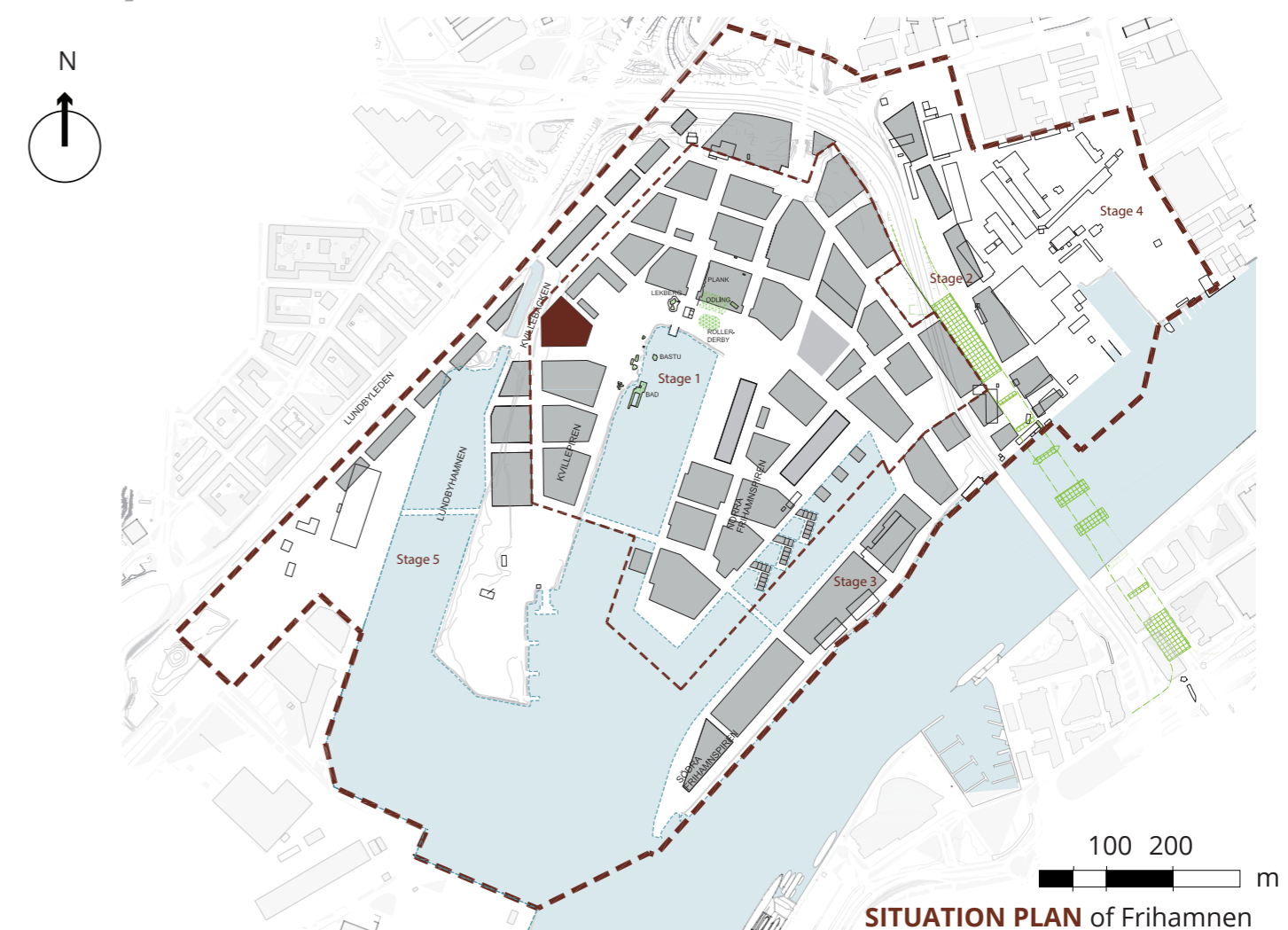
The port of Gothenburg is today Scandinavia's largest harbor. Once consisting of many small ports, the port is now becoming more coherent and located outside Älvsborgsbron. However, one of these older and smaller ports was Frihamnen, located in one of the most central parts of Gothenburg. Consecrated in 1920 the port was finally shut down a few years ago and has served as a central field for temporary and various events ever since.

The vision for the future, however, is a district full of life. Frihamnen also has a symbolic value, as it is believed to bring the different parts of Gothenburg, divided by the river Göta älv, closer together. A continuation of the city center where the idea is that all kinds of people, of different ages and from different backgrounds can meet and interact. The district should offer dwellings, work, service and recreation. It is with this background we designed our suggestion for sheltered housing (trygghetsboende) for some of the elderly in this prospective district where the first stage is expected to be completed by 2021.

Since Gothenburg was founded as a port city, many people still associate the city with ports and shipbuilding industries. Part of the feeling of former industry might be found in one of the materials in the pictures, metal. Used both in the hull of the ships and in the cranes used every day in the port. Even if frihamnen now is taking the step into a different future we think its history and story is worth telling. And we try to do that visually by using one of the materials that has always been used in the site, metal.



LOCATION OF THE SITE within Göteborg



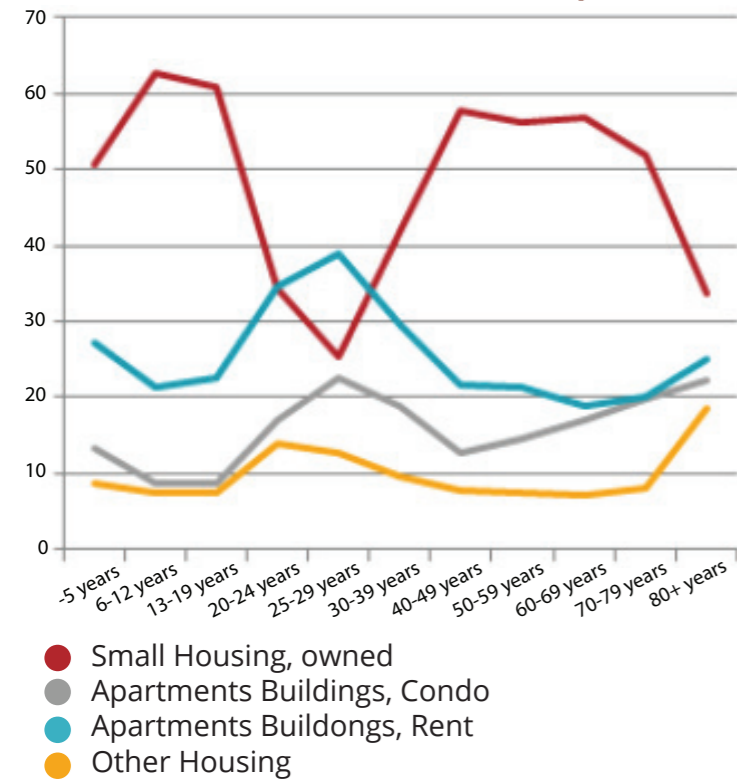
SITUATION PLAN of Frihamnen

# CONCEPTS

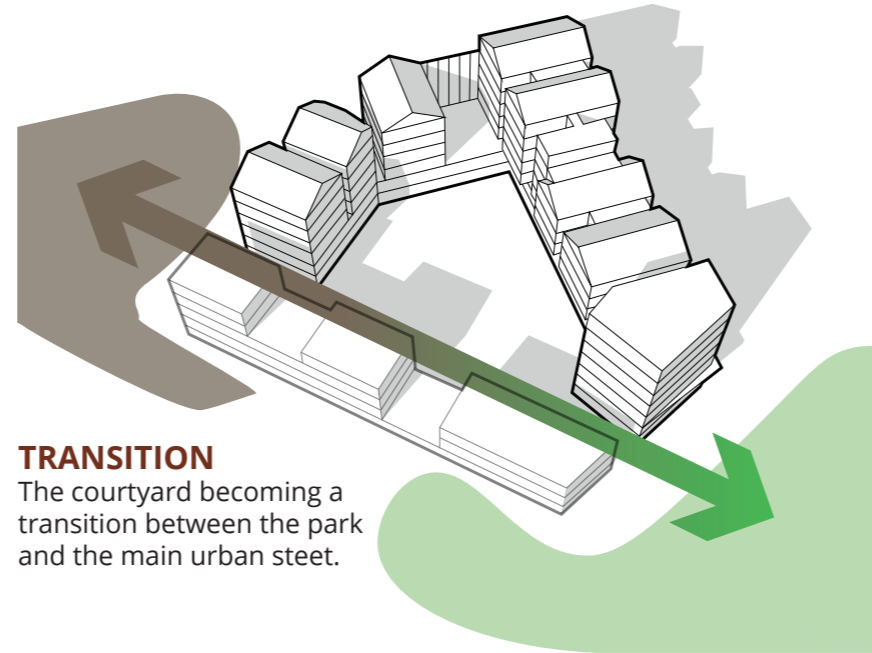
After the first researches, reading, interviews, we retained many guidelines and tried to work with them in the project.

During the process and the design work we have kept in mind that elderly are like everyone else. They come from different backgrounds, and they have different needs. In our project we have tried to create space for these different needs and to give the residents the opportunity to chose how to live their own lives. Through lectures and literature we learned that most of the elderly today are living in small houses.

## HOUSING BY AGE IN SWEDEN 2014, percent



To reduce the difference between an owned small house and a small apartment in a dense urban context, we began to explore whether we could build in something of a "small house feeling" in our concept. Also crucial to our concept is the idea of trying to offer the elderly access to various activities and social interaction between different age groups. In our project we take the opportunity to share space with the school close by, in the north of the building and without increase the rent in the elderly house.



### TRANSITION

The courtyard becoming a transition between the park and the main urban street.

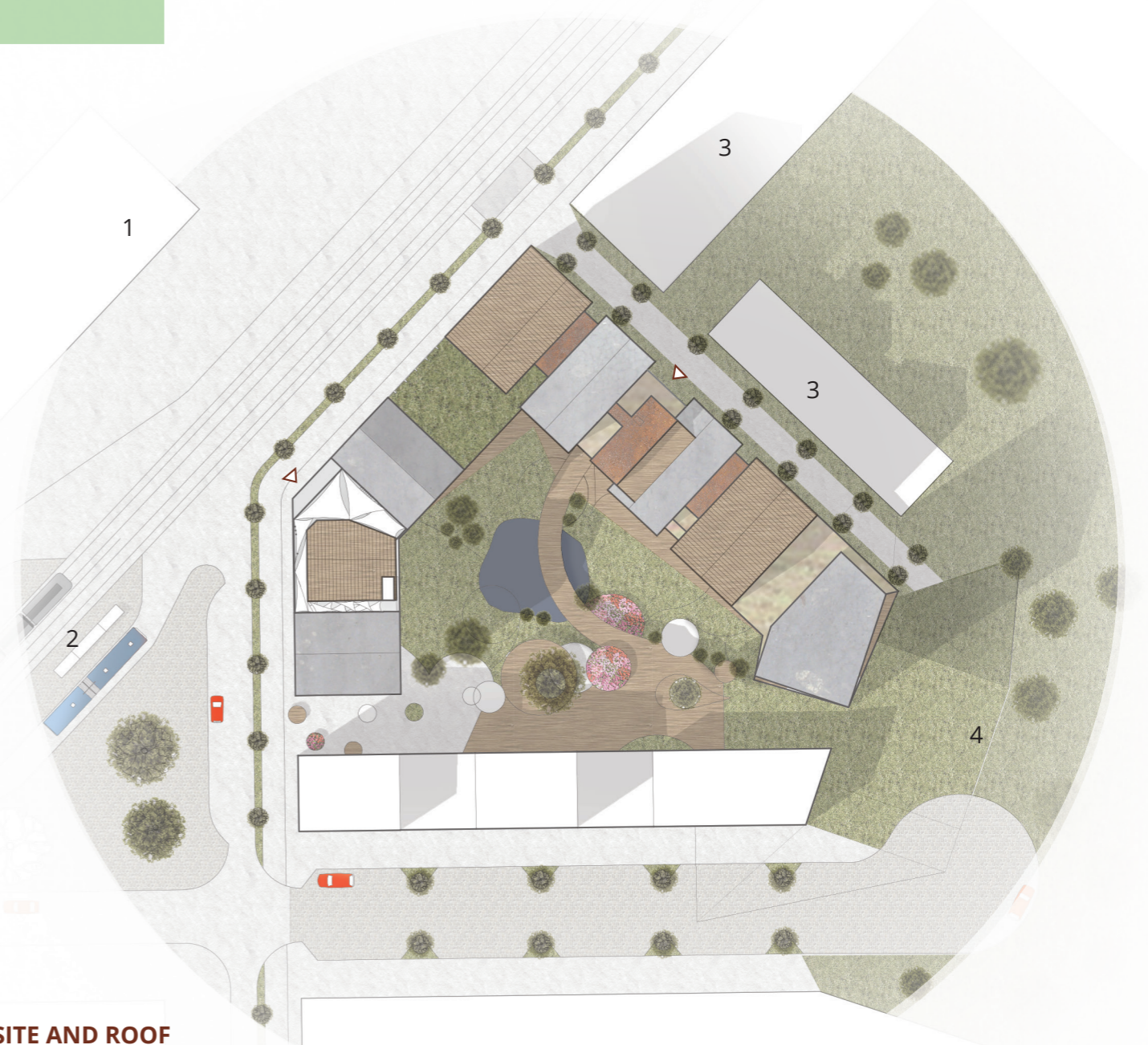
### VOLUMES AND COURTYARD

Less dense buildings in the south bringing sunlight into the courtyard. Higher buildings in the west creating a barrier against the noise from the nearby road and railroad. Two major entrances from the park in the east and the bus and tram stop in the west creates movement through the semi-private courtyard. However, it also brings a simple division of the courtyard between a public and more a private part in the north as well. The arrow points at the different materials, hard and soft, on each side of the block showing our idea of turning the courtyard into a transition between these two.

*"Apartments with a sense of small housing within an urban context and with activities close by"*



**STAY ACTIVE** The project offers the elderly access to various activities and social interaction between different age groups.



- 1 Parking houses
- 2 Bus and Tram stop
- 3 Park
- 4 School

**SITE AND ROOF**  
1:800

3

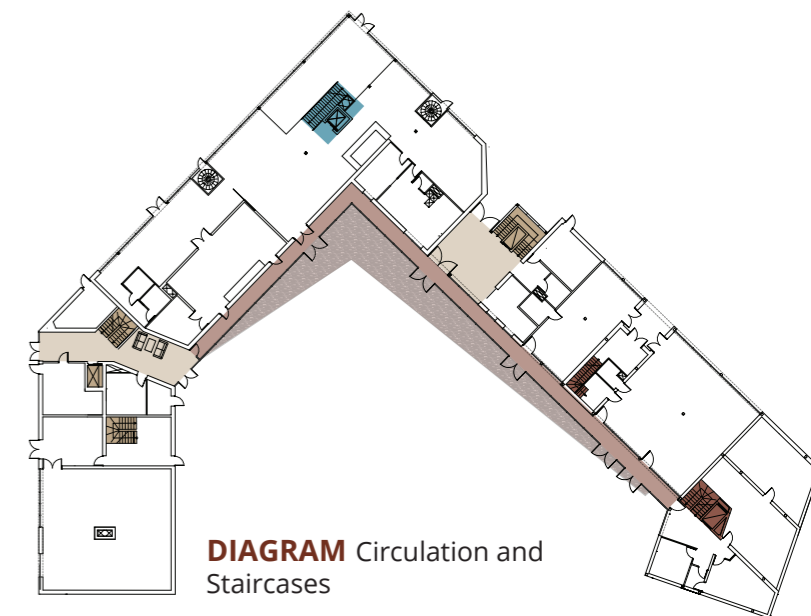
**SENIOR HOUSING IN FRIHAMNEN**  
GOTEBORG

BRUNDIN Erik / VUILLERMET Julie

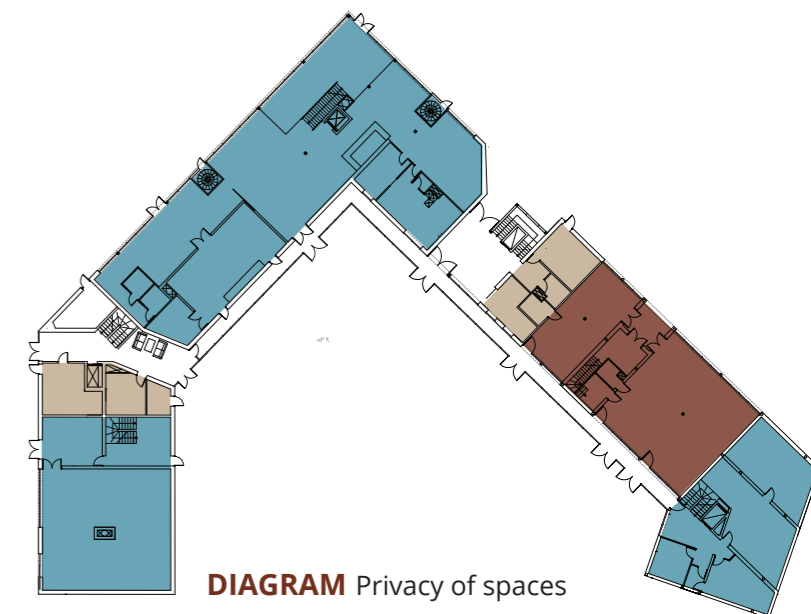
# PLANS

FLOOR 1

1650m<sup>2</sup>



**DIAGRAM** Circulation and Staircases



**DIAGRAM** Privacy of spaces

Floor plans of the two base floors is trying to take advantage of their specific location within the block. By placing a school library and facilities for handicraft in our base floors we try to bring activities close to home for the elderly without this affecting their rent. This also creates social meeting points and might lead to in increased efficiency in the use of the facilities during the day. In the southwest, the closeness to the bus and tram stop creates a good spot for a small shop.

- 1 Store 220m<sup>2</sup>
- 2 Storage (Store) 145m<sup>2</sup>
- 3 Recycling Room
- 4 Storage (Elderly house)
- 5 Entrance for the Elderly House  
Public (except family) is not allowed in this space
- 6 Sprinkler Room
- 7 Conference Room (Library)
- 8 Library 515m<sup>2</sup>  
Open for the public, the school and the elderly house

- 9 Staff Room
- 10 Workshops 61m<sup>2</sup> + 136 m<sup>2</sup>  
Can be use as a handicraft room and a sewing room, or can change with needs. Common spaces for the school and the elderly house
- 11 Storage for the public building
- 12 Technical room
- 13 Technical room
- 14 Walking space 150m<sup>2</sup>

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**SENIOR HOUSING IN FRIHAMNEN**  
GÖTEBORG

**BRUNDIN Erik / VUILLERMET Julie**



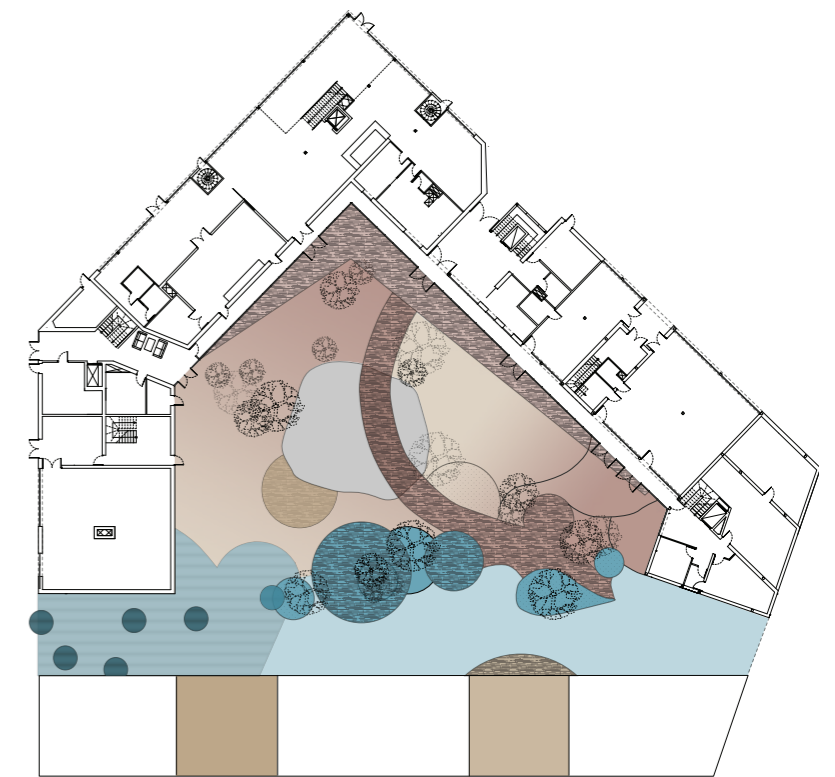
- Public
- Semi Public
- Private

1 2 5 10 m

# PLANS

## FLOOR 2

1300 m<sup>2</sup>



**DIAGRAM** Privacy of the courtyard

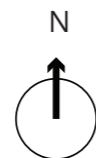
In the east, the public building shields itself from the courtyard becoming totally open towards the park and becoming a landmark for the starting point of the park. Its café, gym and spa provides activities for everyone in the city but also for the elderly in our block. In fact, all activities in the base floors can be easily accessed for every one of the elderly living in the block through the indoor walking path located in the first base floor. A weatherproof place for simple exercise with a view of the courtyard.

- 1 Store
- 2 Storage (Store)
- 3 Laundry Room
- 4 Storage (Elderly house)
- 5 Common Space for the Elderly House
- 6 Storage
- 7 Balcony (Library)
- 8 Library 485m<sup>2</sup>
- Open to the public, the school and the elderly house
- 9 Staff Room
- 10 Working Space 97m<sup>2</sup>
- Adding space for the school, also used for the elderly.
- Open space, without defined fonction
- 11 Café (Public Building) 205m<sup>2</sup>

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**SENIOR HOUSING IN FRIHAMNEN**  
GÖTEBORG

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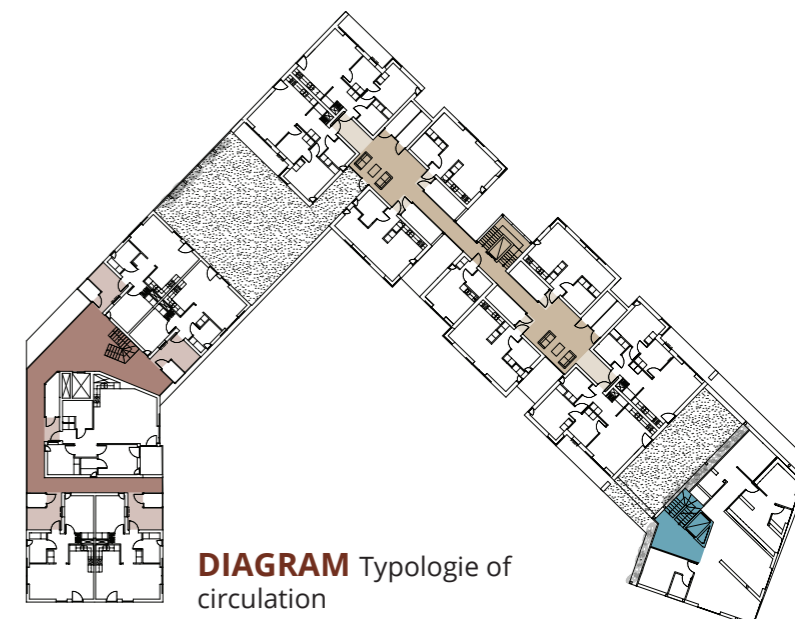
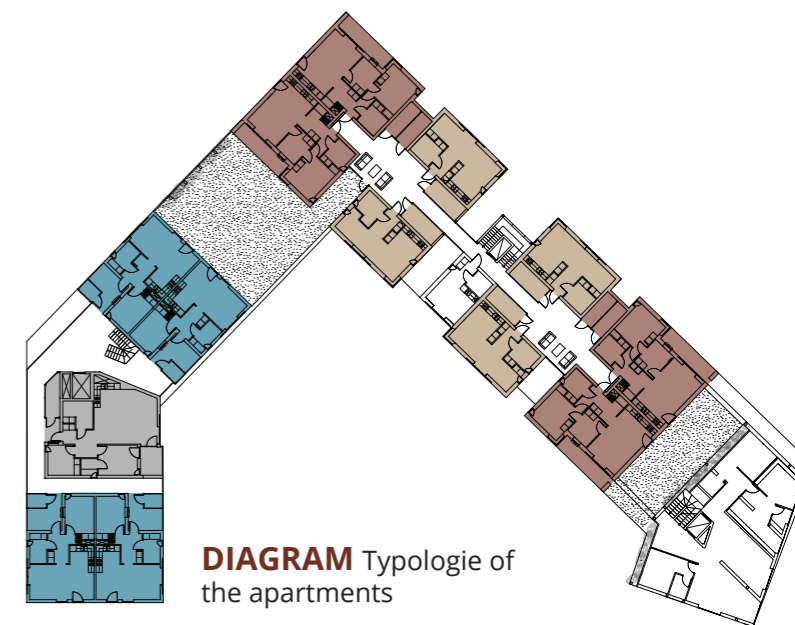
- Public
- Semi Public
- Private

1 2 5 10 m

# PLANS

## APARTEMENTS

**52 Apartments**  
1 to 3 Rooms,  
40 to 77m<sup>2</sup>



The configuration of the apartments is, for economic reasons, an attempt to give access to as many apartments as possible per floor and elevator. In the north apartments we have an indoor corridor connecting the apartments bringing a more urban feeling. It is contrasted by the southern building where we have an outdoor corridor. Trying to offer something for all elderly regardless of taste.

- 1 Social Interaction Point**
- 2 Accessible Green Roof**
- 3 Guest Apartments Floor 3,4 / Common Space Floor 5, 6, 7**
- 4 Public Building ( Café, Gym and Spa )**

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**SENIOR HOUSING IN FRIHAMNEN**  
GÖTEBORG

**BRUNDIN Erik / VUILLERMET Julie**



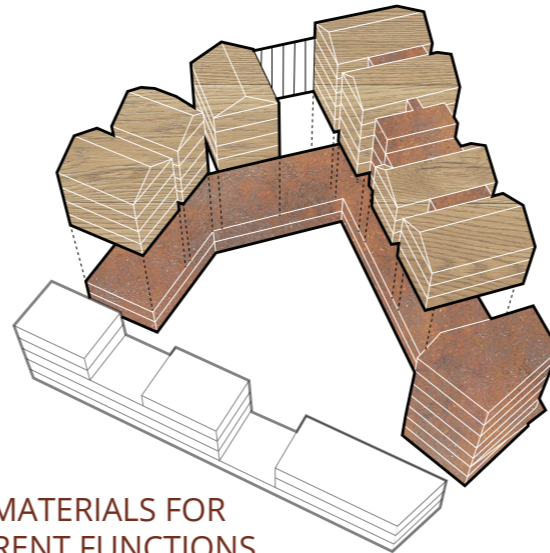
1 2 5 10 m

# FACADES

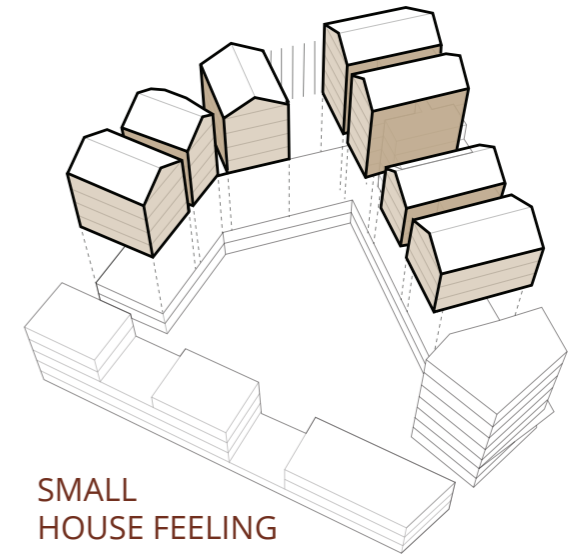
How the materials are applied within the block. The materials visually divide the block into two different parts : The public in metal, and the private in wood.

The apartments are placed on top of the two first floors and the construction also differs. In public part the steel construction keep the feeling of the site and its history. The houses, constructed in wood bring a warm feeling. It's also adds to the feeling of small houses since wood is traditionally the most used material in small houses in Swenden.

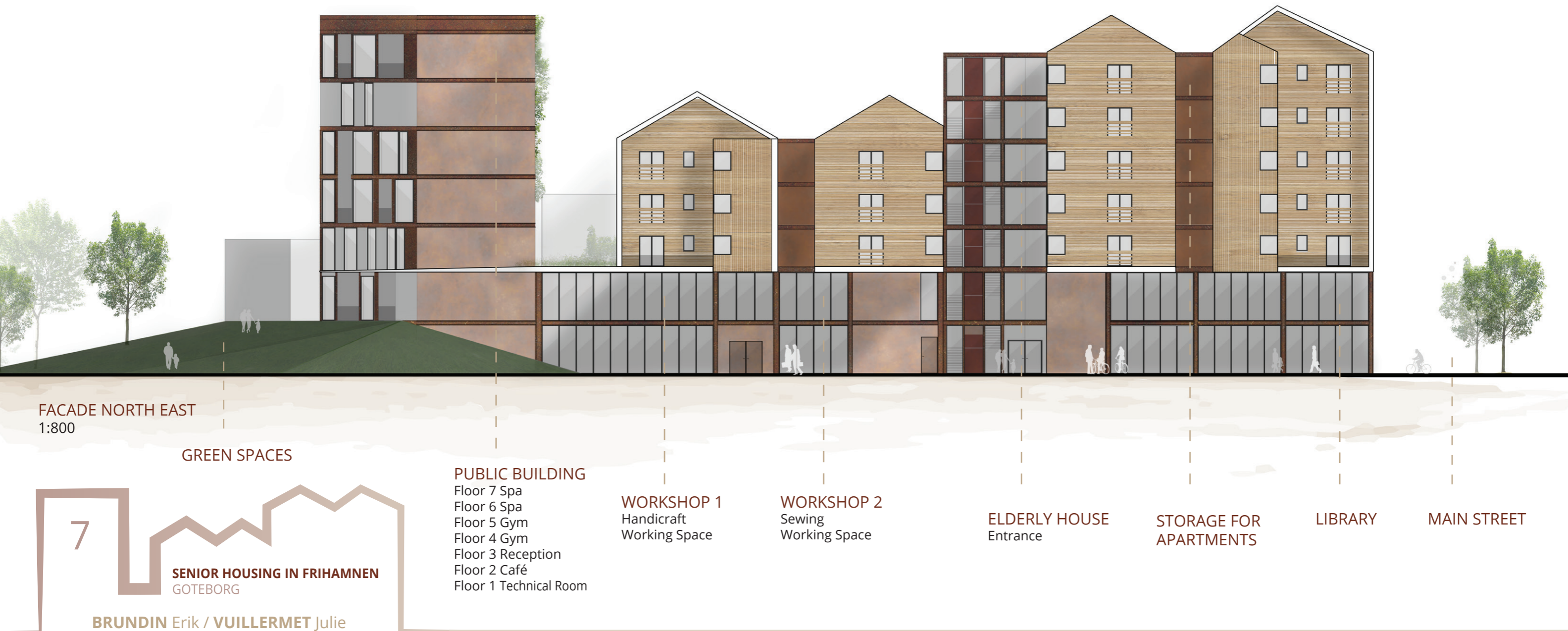
Wood is also a sustainable material for the future and by time it will age individual giving each house its own individual character. The individuality is then further strengthen by individual sloping roofs.



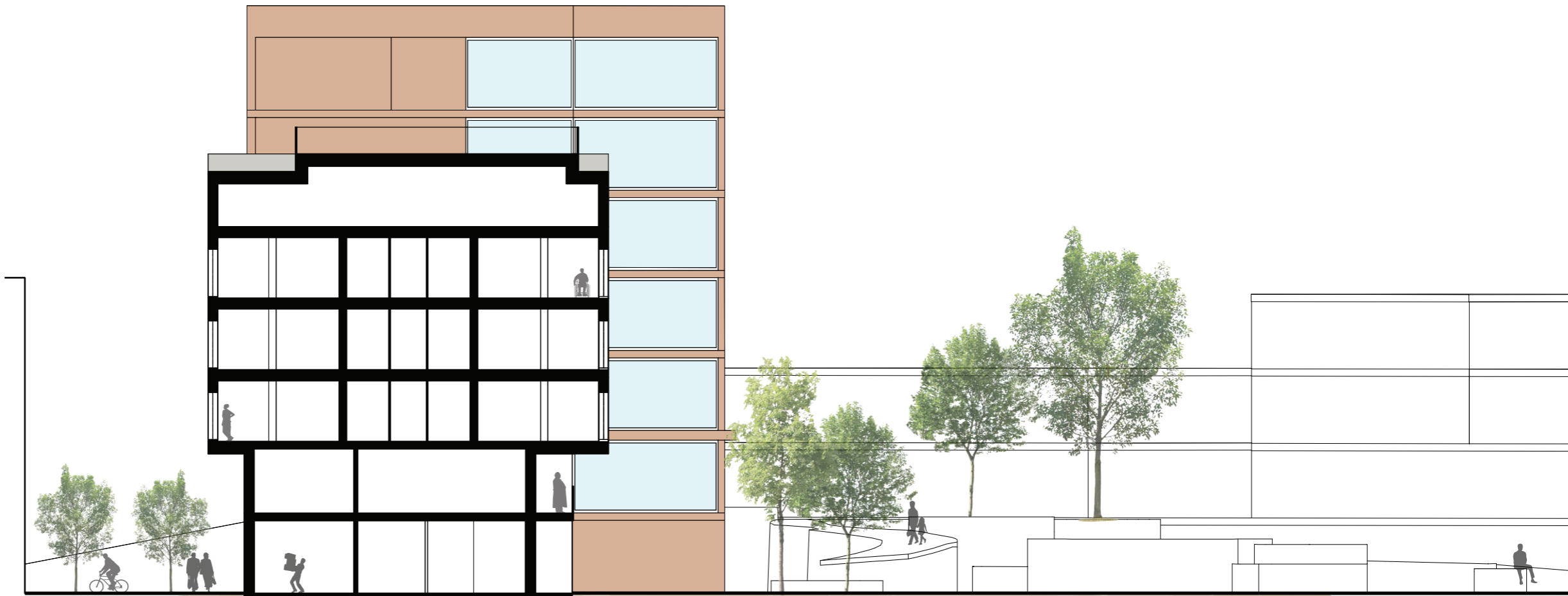
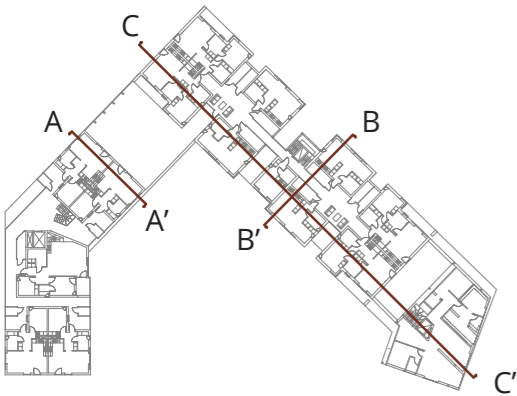
TWO MATERIALS FOR DIFFERENT FUNCTIONS



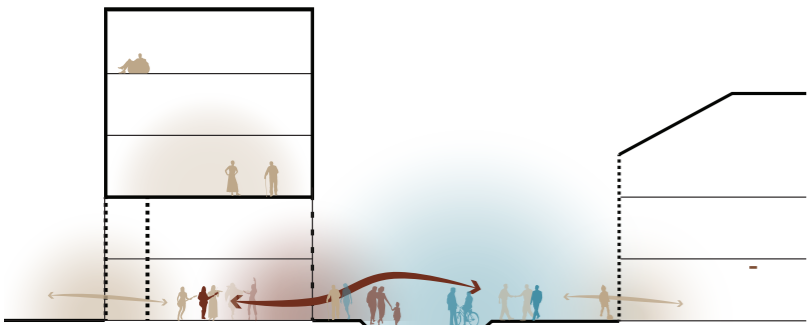
SMALL HOUSE FEELING



# SECTIONS



SECTION BB'  
1:200

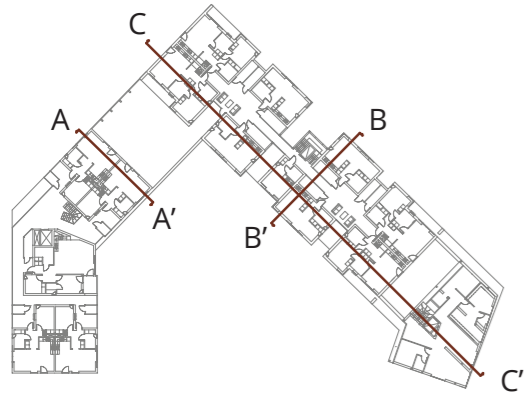


BUSTLING STREETS  
without insight to private  
homes



SECTION AA'  
1:200

# SECTIONS

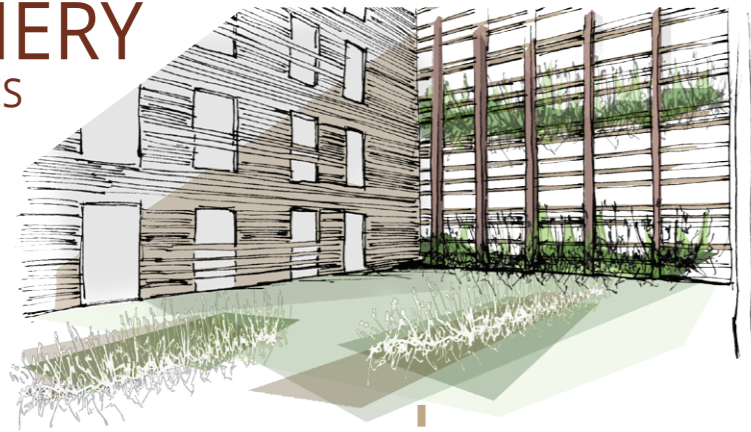


**SECTION CC'**  
1:200

Our common spaces are placed within the northern building and placed on top of each other. The idea is to provide three rooms with different activities. A common dinner or perhaps a place to relax with friends or why not use the small terrace on top of it all with a view over the park.

# GREENERY

## 3 TYPOLOGIES



**GREEN WALL 1**  
 Protect against noise from the main street  
 Private garden for the elderly houses  
 Point of view  
 Meeting Space



**GREEN WALL 2**  
 West façade of the public building  
 Protects against view between the public building and the apartments  
 Keep the west light source  
 Part of concept : Green Move from the park to the street



**COURTYARD**  
 A way to make the transition between the park and the main street  
 Give to elderly a playfull and yet accessible landscape  
 Variation between public, semi private and private gardens



**WEST FACADE**  
 1:200

# APARTMENTS

## DETAILES

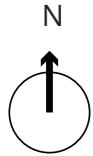


TYPE : 2 ROOMS

**TOTAL AREA : 73.50m²**  
**appartement : 52 m²**  
 living room : 19,50 m²  
 kitchen : 7.50 m²  
 bedroom : 10,7 m² + (0,7 m² storage)  
 bathroom : 5.10 m²  
 entrance/balcony : 9,8 m²  
 storages : 4.3 m²

TYPE : 3 ROOMS

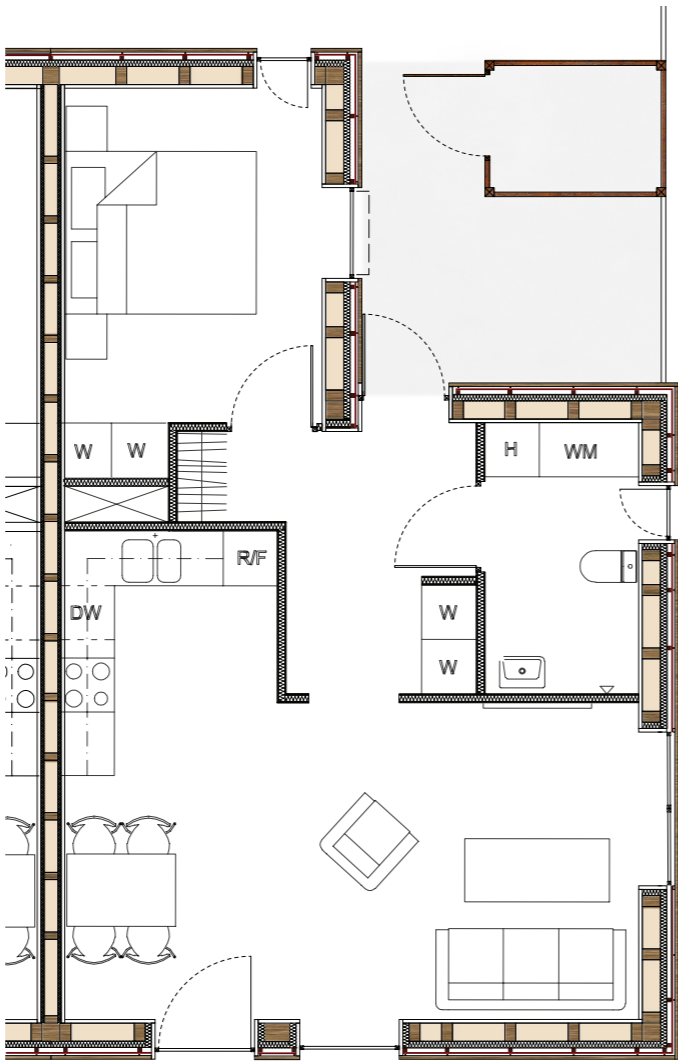
**TOTAL AREA : 105 m²**  
**appartement : 77 m²**  
 living room : 27 m²  
 kitchen : 9 m²  
 bedroom 1 : 11.7 m²  
 bedroom 2 : 7.7 m² + (1m² storage)  
 bathroom : 6.8 m² + (0.7 m² storage)  
 storages : 9.8 m²  
 balcony : 6.26 m²



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SENIOR HOUSING IN FRIHAMNEN  
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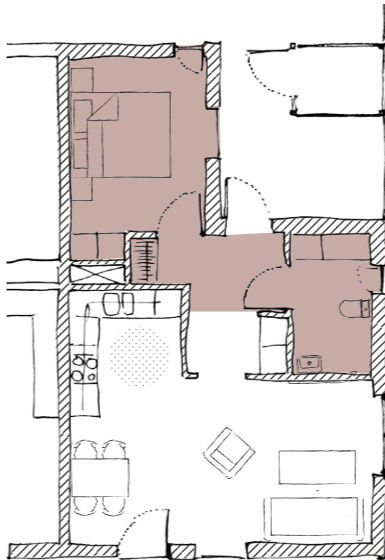
BRUNDIN Erik / VUILLERMET Julie



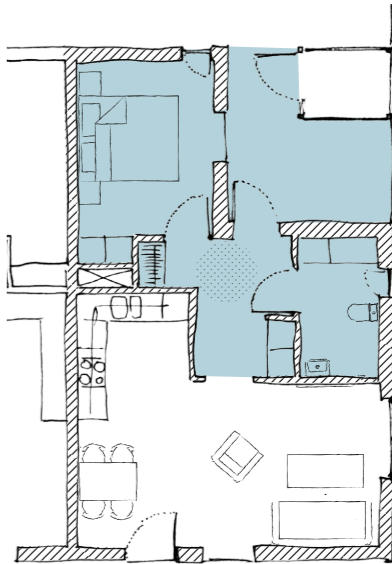
PLAN of the 2 ROOMS APARTMENT  
 1:100

The floorplans of all the apartments has got two key elements in common. The relative short distance between the main bedroom and the bathroom and the location of the bedroom close to the front door. This is for the access of visiting care workers so that they don't need to visit all parts of the apartment. By making some parts of the apartments more private, architecture can help the care takers maintain a part of their personal integrity,

Perspective from the kitchen



EVERYDAY LIFE  
 The bedroom close to the toilet, to facilitate everyday life



STAFF ACCES  
 providing easy acces for the staff to help the care taker



# APARTMENTS

## DETAILES

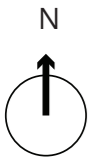


TYPE : 2.5 ROOMS

**TOTAL AREA : 81 m<sup>2</sup>**  
**apartment : 52 m<sup>2</sup>**  
living room : 19 m<sup>2</sup>  
kitchen : 9 m<sup>2</sup>  
bedroom : 12.5 + (0.8 m<sup>2</sup> storage)  
bathroom : 5.8 m<sup>2</sup>  
storages : 6.8 m<sup>2</sup>

TYPE : 1 ROOM

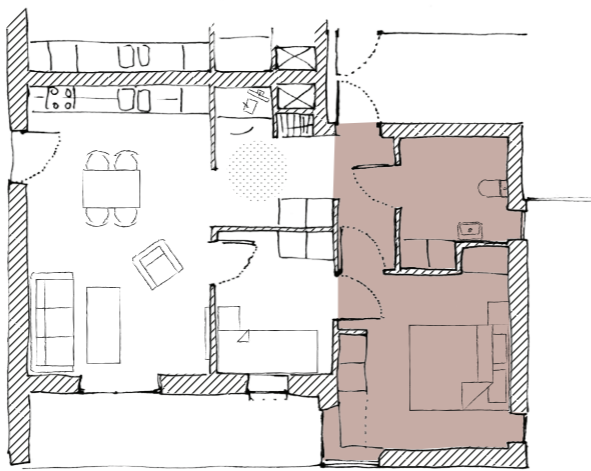
**TOTAL AREA : 58 m<sup>2</sup>**  
**apartment : 40 m<sup>2</sup>**  
living room / bedroom : 21.3 m<sup>2</sup> + (0.7 m<sup>2</sup> storage)  
kitchen : 8 m<sup>2</sup>  
bathroom : 6.2 m<sup>2</sup>  
storages : 8.3 m<sup>2</sup>



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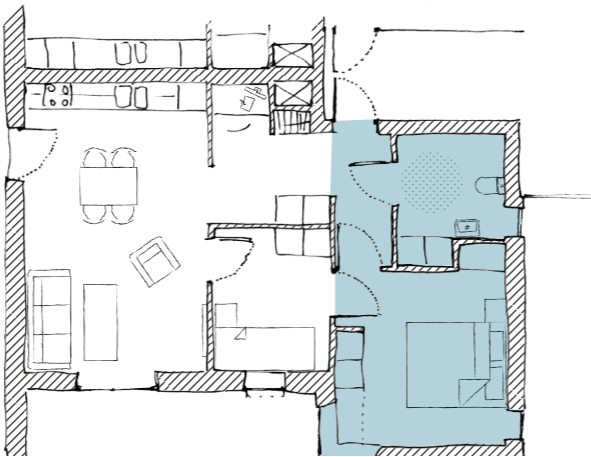
SENIOR HOUSING IN FRIHAMNEN  
GÖTEBORG

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### EVERYDAY LIFE

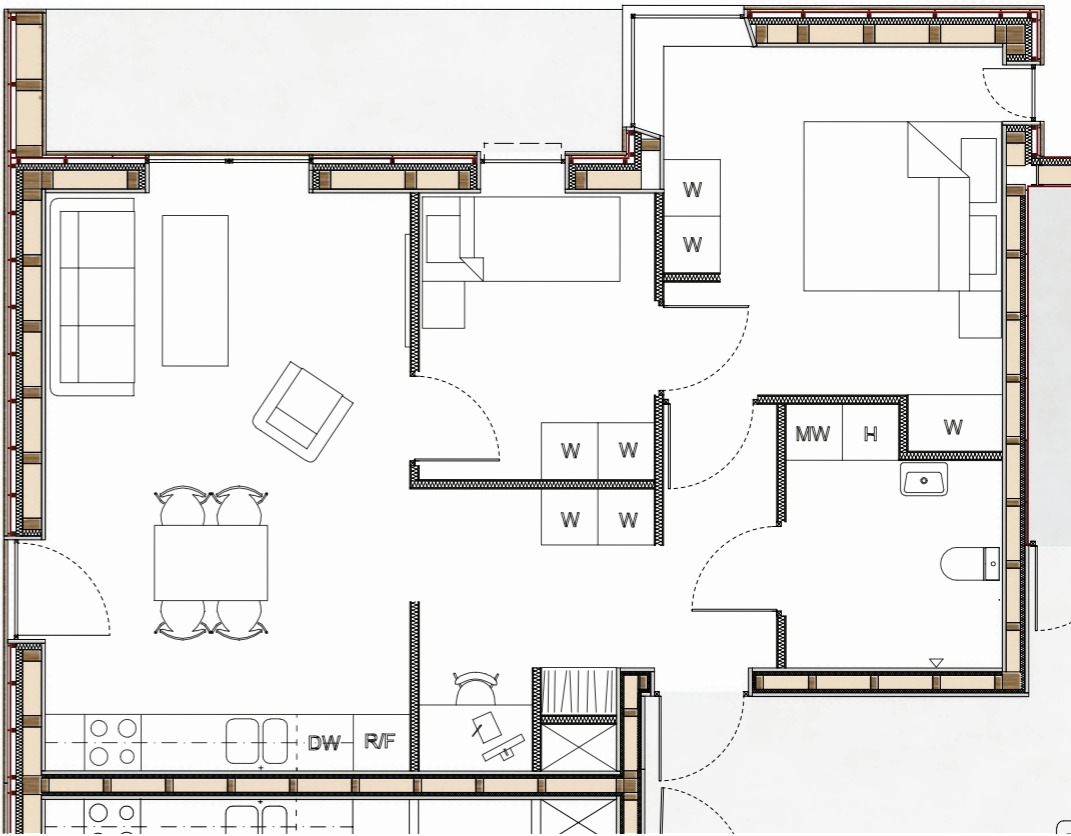
The bedroom close to the toilet,  
to facilitate everyday life



### STAFF ACCES

providing easy acces for the  
staff to help the care taker

Perspective from the  
main bedroom. The sight line  
connects the bedroom with  
the rest of the apartment



PLAN of the 2.5 ROOMS APARTMENT  
1:100



# DETAILES

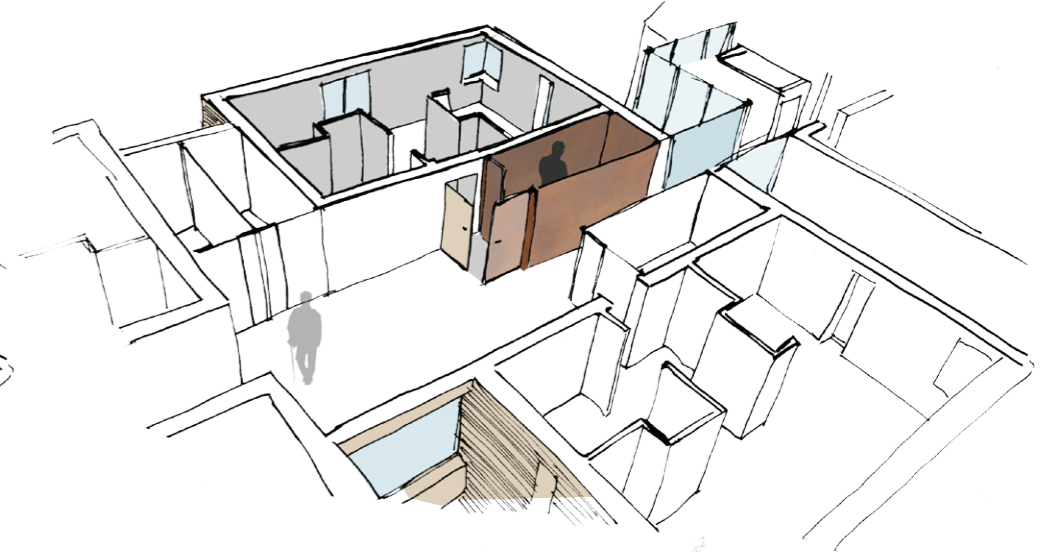
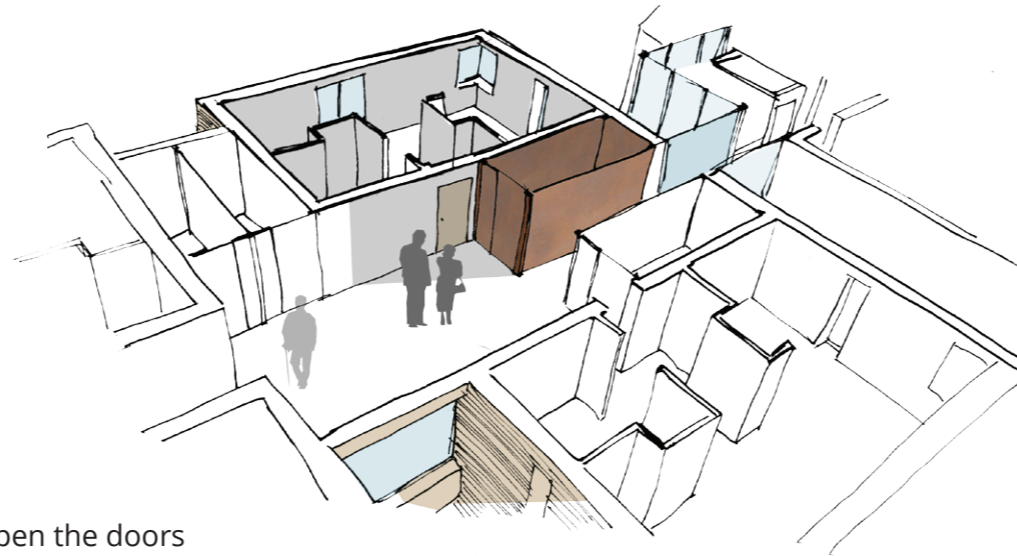
## STORAGES



### WORK WITH THE STORAGES IN THE NORTH BUILDING

Storage close to the entrance

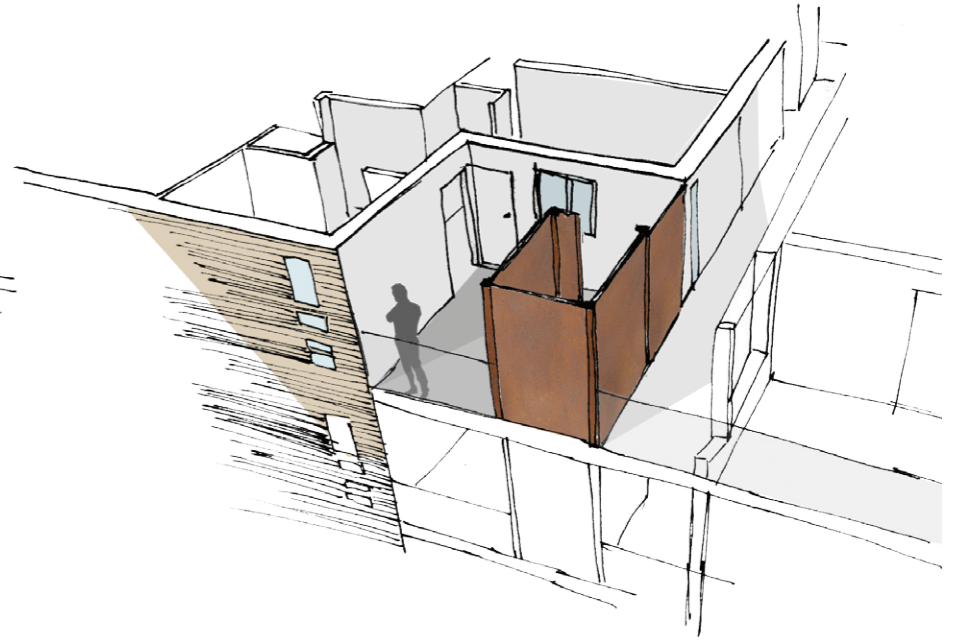
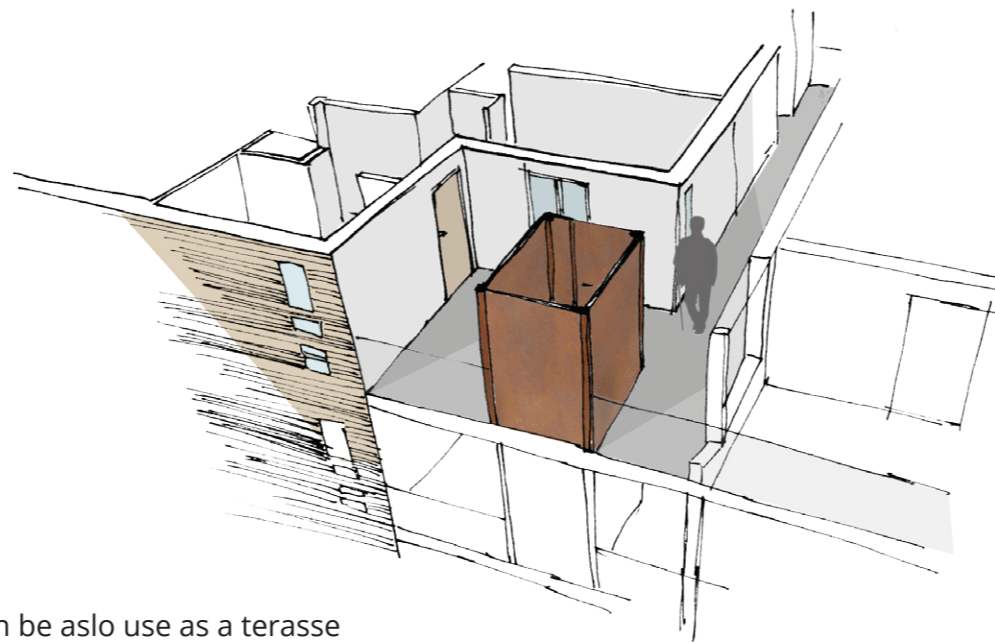
Connection with the apartment more private when the elderly open the doors



### WORK WITH THE STORAGES IN THE SOUTH BUILDING

Storage close to the entrance

Entrance more private than a traditional urban building, and can be aslo use as a terasse



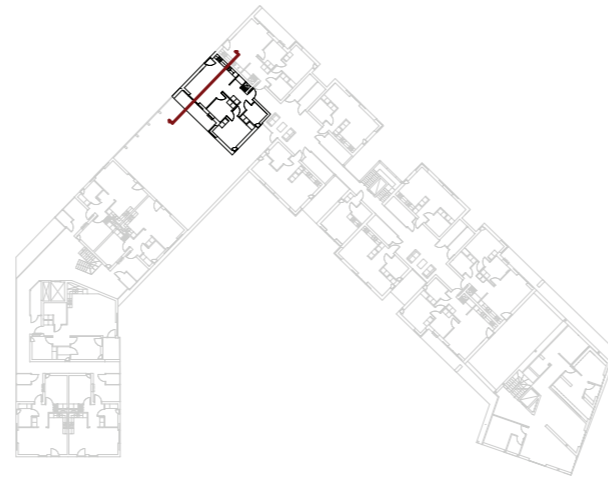
# DETAILES

## FACADE AND WINDOWS



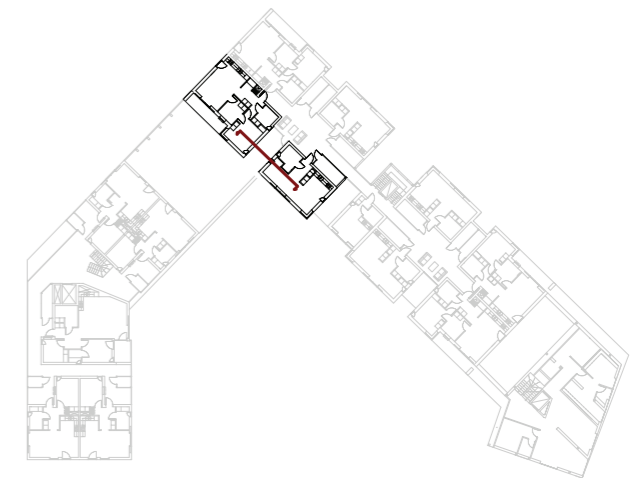
### «FENETRE EN ANGLE»

View in two directions  
More Sunlight  
Low window for keeping the view outside when the elderly is the bed  
Edge of the window can be use as a desk



### FRENCH BALCONY CONCEPT

No add space and cost for a balcony in each apartment  
Using the facade as a fence



### HIGH AND NARROW WINDOW

Provide light without unwanted views into the opposing apartments  
Used in kitchens and bathrooms

