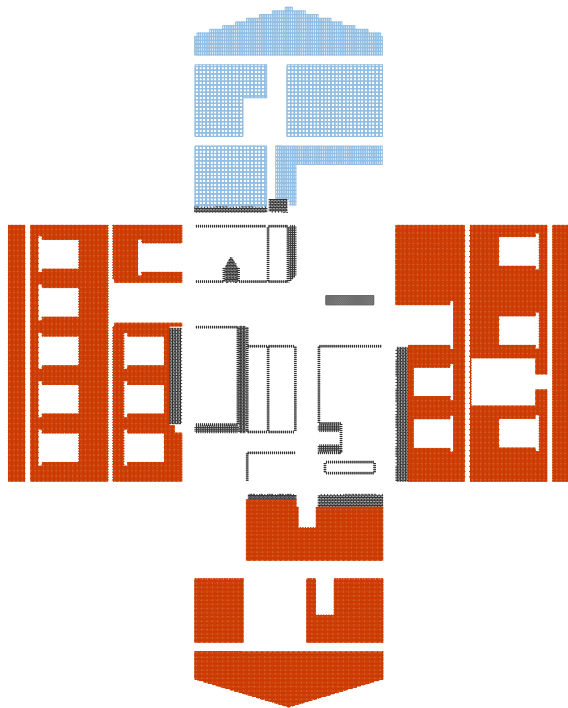


Orust Community Centre



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ARK 626 Transformation Projects and Environmental Care

Chalmers Technical University

Master's Programme Fall 2021/2022

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Context & Theory

The site is located in the middle of Orust Island. Its central location is its biggest advantage and disadvantage; the distance from the whole island to the site is relatively similar in all directions, however all the large villages lie on the coast, hence the furthest from the site as possible.

The Mejeri industrial building has been built here in order to be accessible from the whole island. Nowadays the main road, which connects the two bridges to mainland runs pass the site. Most people drive by without even noticing the building and the intention to make a stop here.

The challenges here, are in my opinion connected to the subject of rural environment. The island is sparsely populated and most inhabitants are concentrated in smaller villages along the coast. There is no large concentration of people in this environment and most of the traffic is done individually.

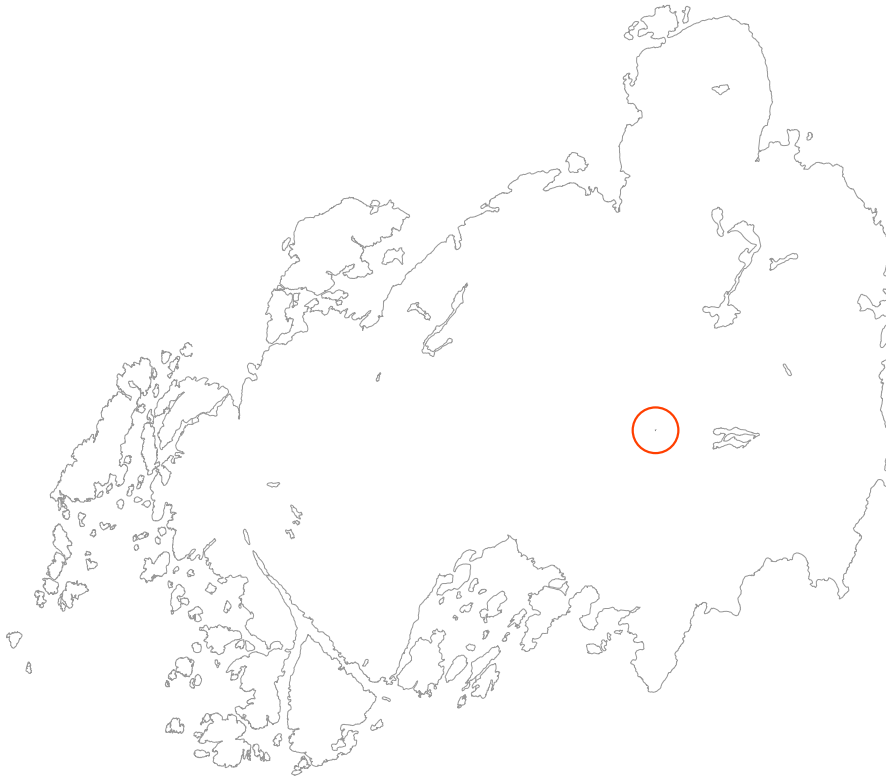
There are three subjects of promoting a viable rural program:

- development of local activity hubs

- creation of local supply chains

- enhancement of educational and cultural uses

With the close connection to the main traffic artery of the island and with these subjects in mind, this site is suitable for development of a centralized activity hub: Orust community centre.



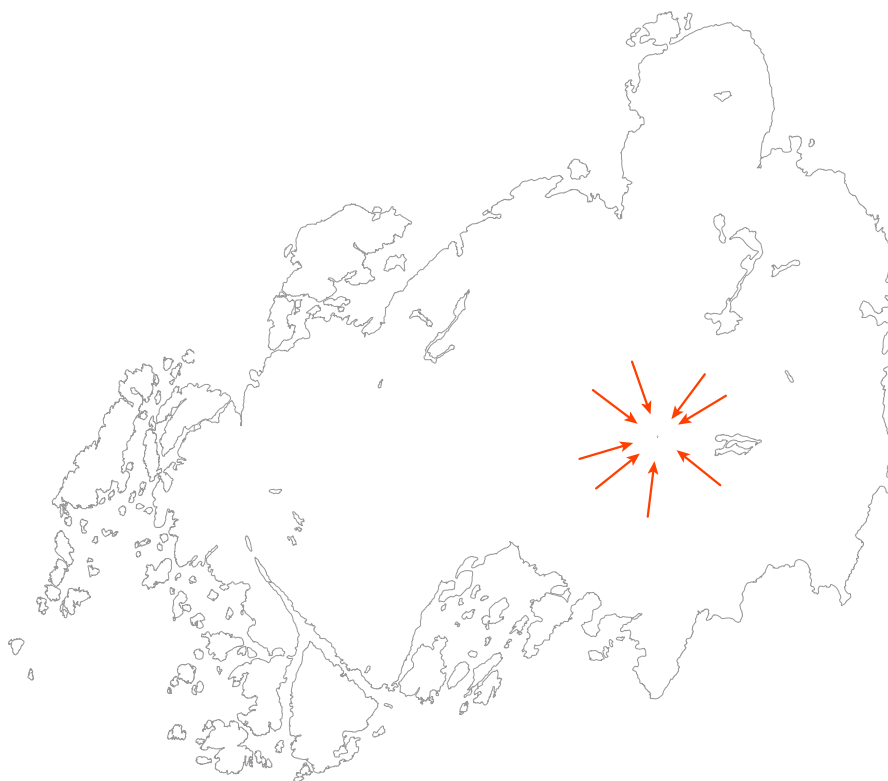
1. site localization



2. site accessibility



3. site-settlements distance



4. rural centralization

Site & Surroundings

The advantage of the old Mejeri was its location in a shallow valley, just by the junction of the main roads of the island. Historically, the main north-south road ran on the edge of the site; later, however, a new road has been built some 300 metres west from the building and the immediate connection to traffic has been lost.

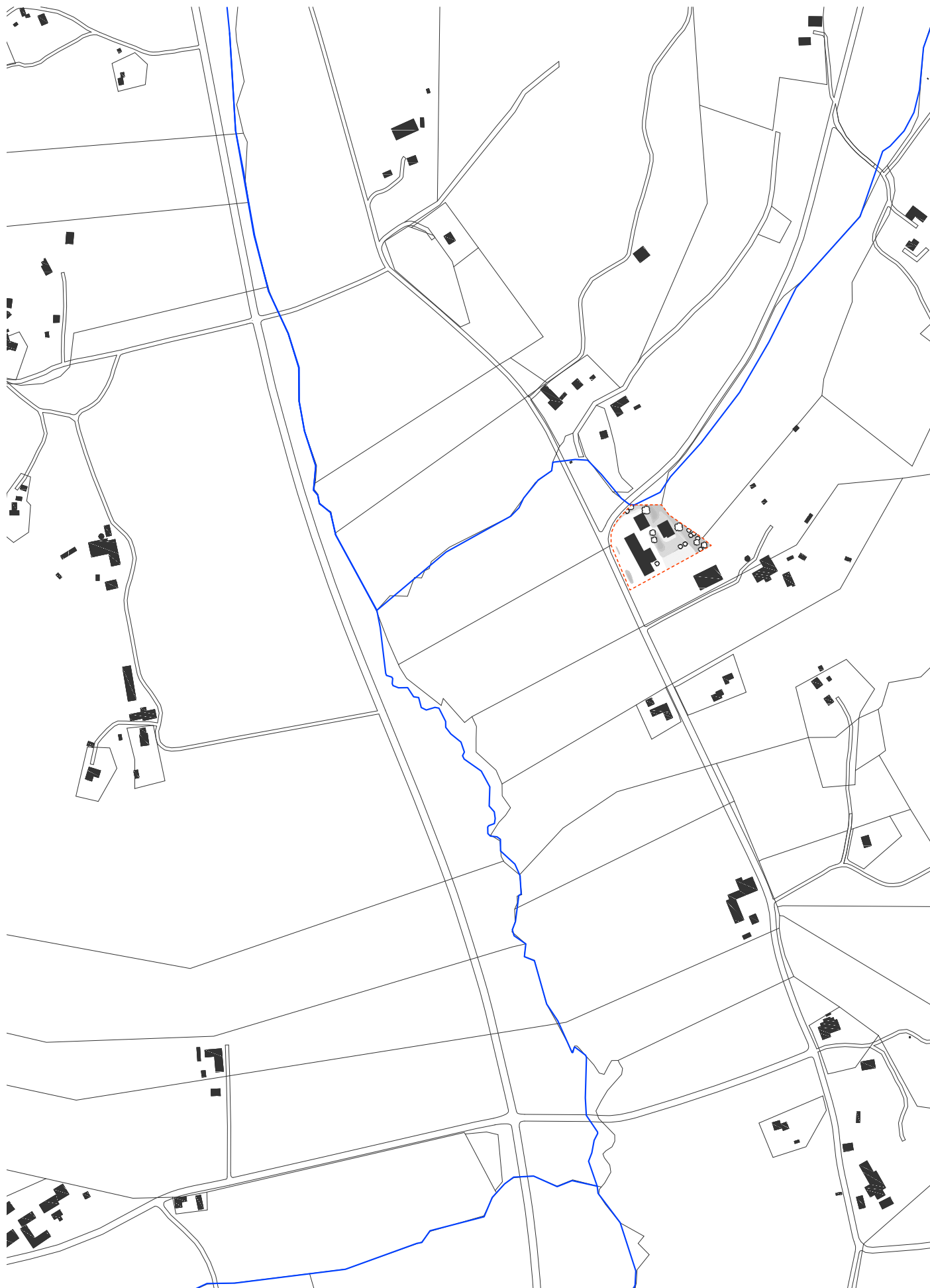
Nowadays there is no direct connection to the main road, since there is a stream running in between.

Visual connection is still present and the clear figure of the building is visible from the passing cars; one of the aims of this project is to make the building more attractive in its surrounding, so it is more welcoming to the people driving by.

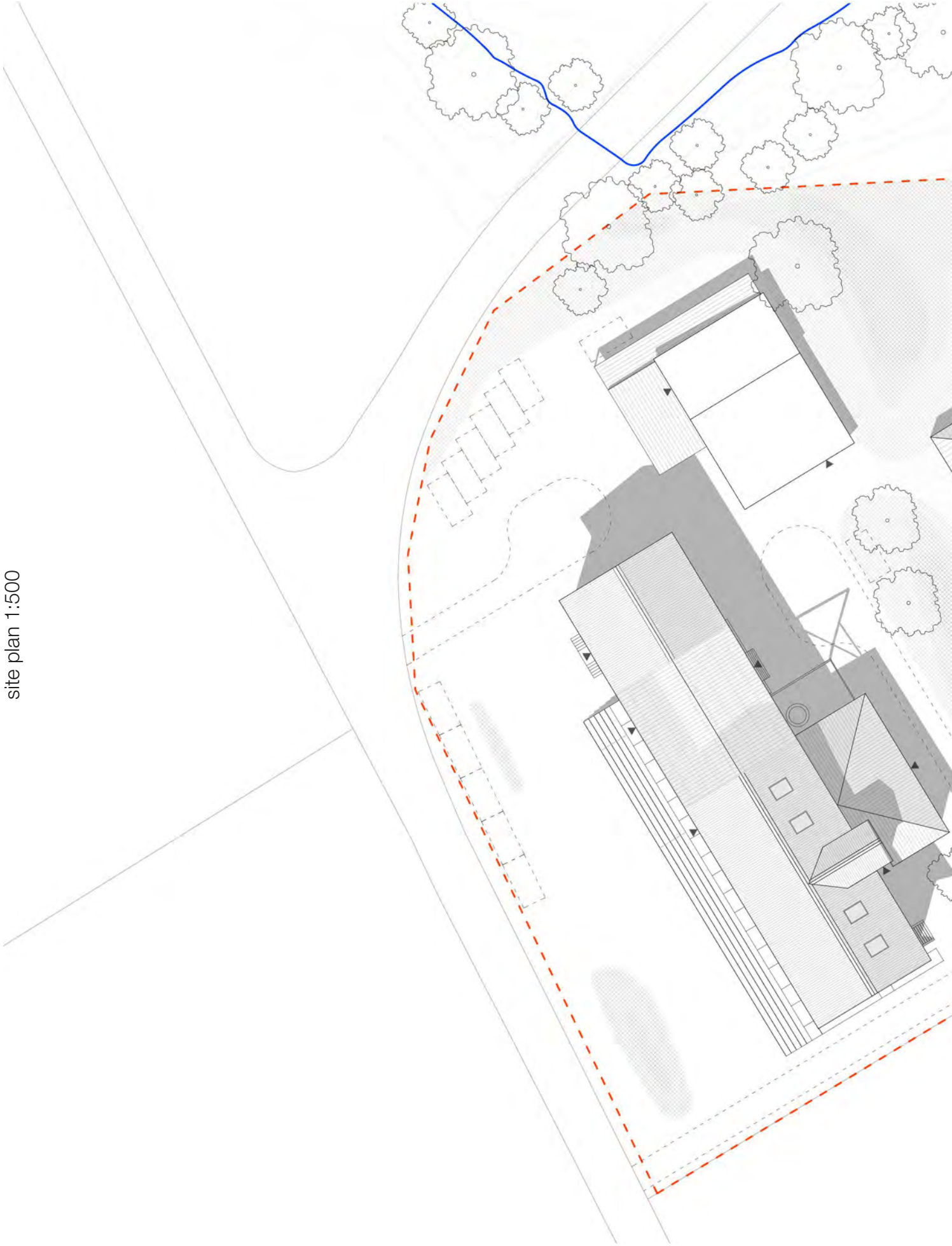
This means, changes in the architecture: larger openings, connecting the outside with the inside; new metal roof, changing the appearance and the figure of the building; large front porch for public events. And also changes in the functions: outside markets and workshops; programme of the wintergarden expanding outside; larger gatherings and events.

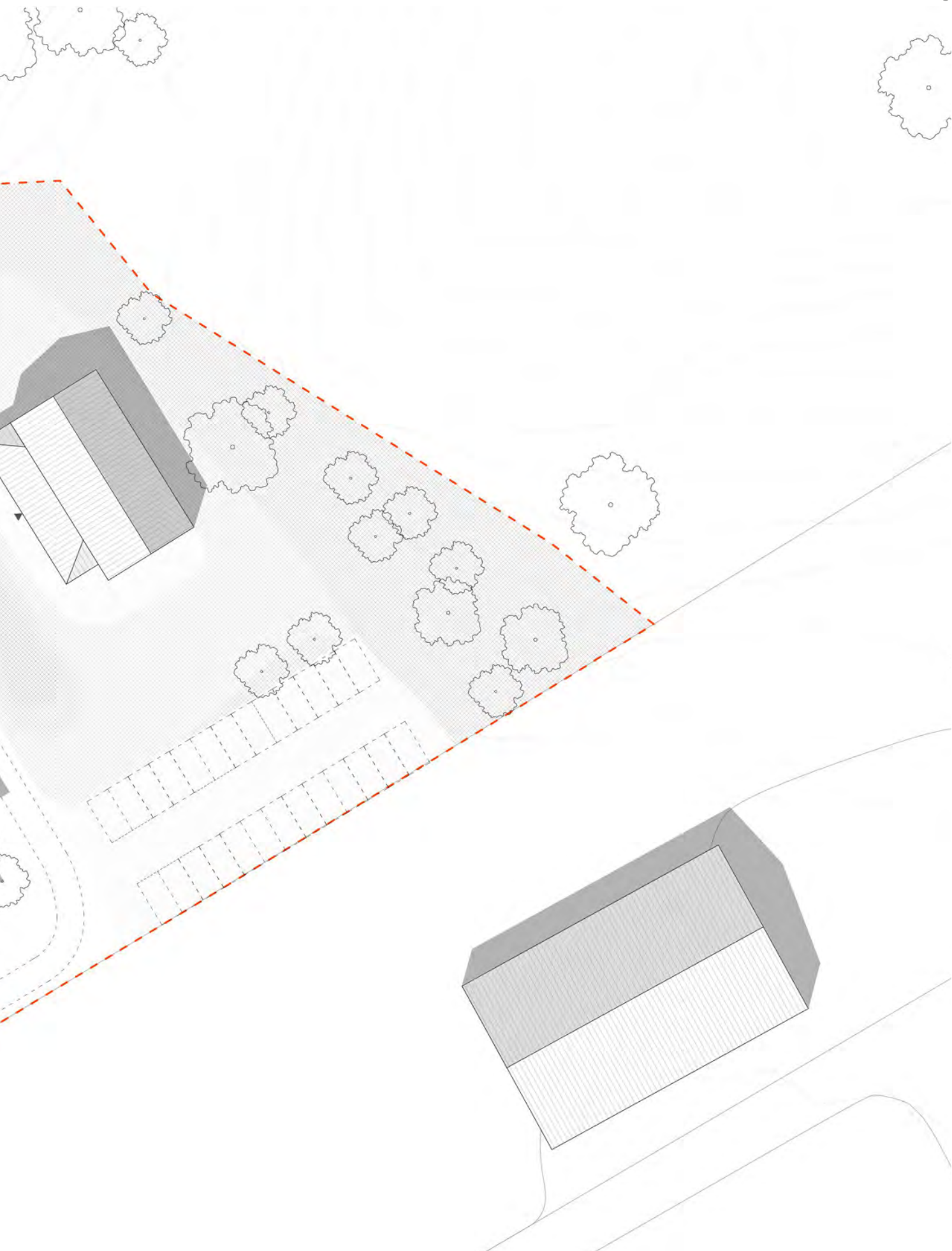
One important characteristic of the location is the water; this valley used to be a small fjord, to the east of the building can be found mostly rocky subbase and to the west, wet soils.

The issue of rainwater and groundwater management is part of the smaller landscape interventions.



structural site plan 1:6000





Concept & Interventions

There are two main values of the building from my perspective:

- current users and stakeholders
- historical memory

The aspiration of the project is to protect these two values and try to develop them further in three areas:

- gradual development in connection to stakeholders' future possibilities

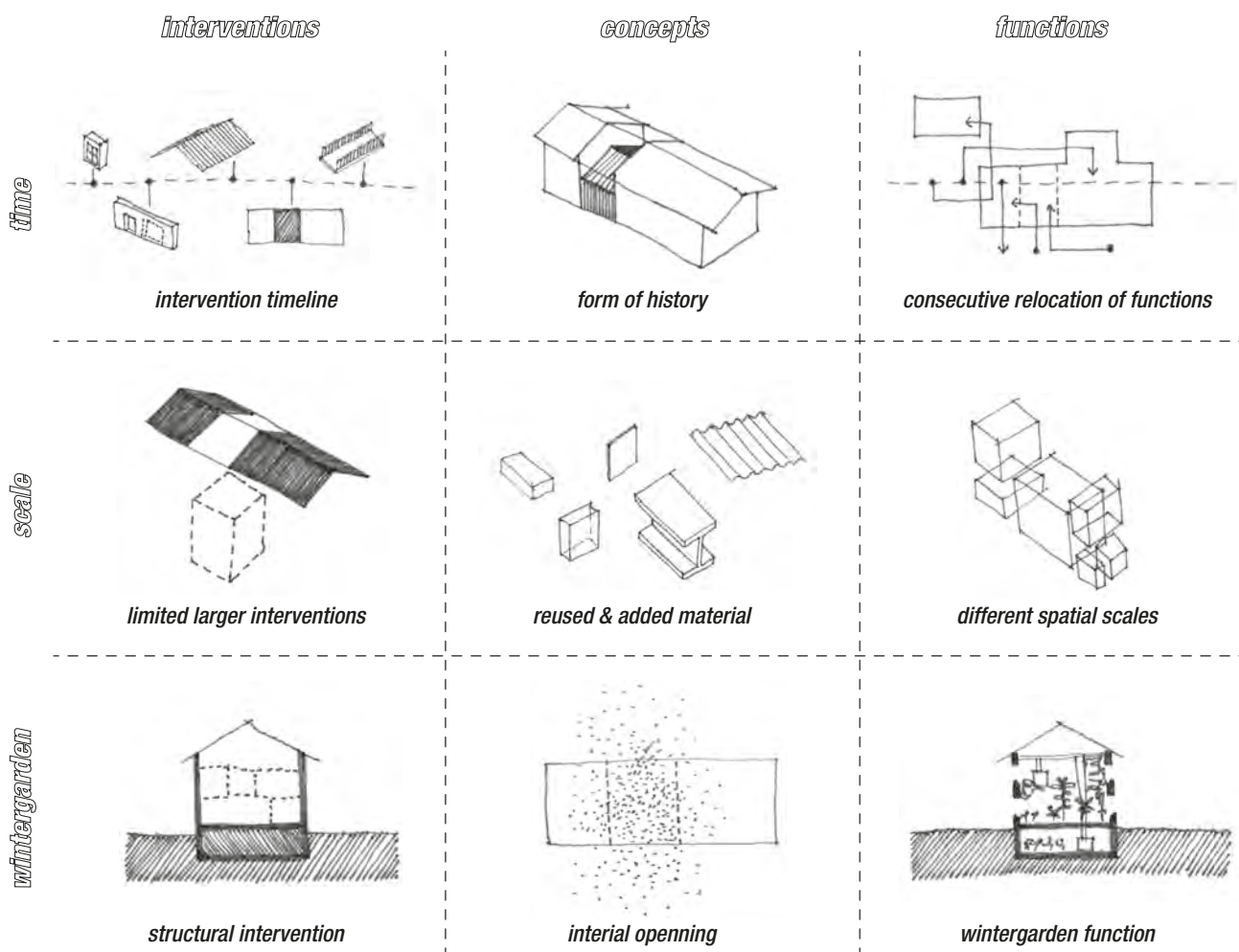
- reuse of space and material

- preservation of historical form and traces of history

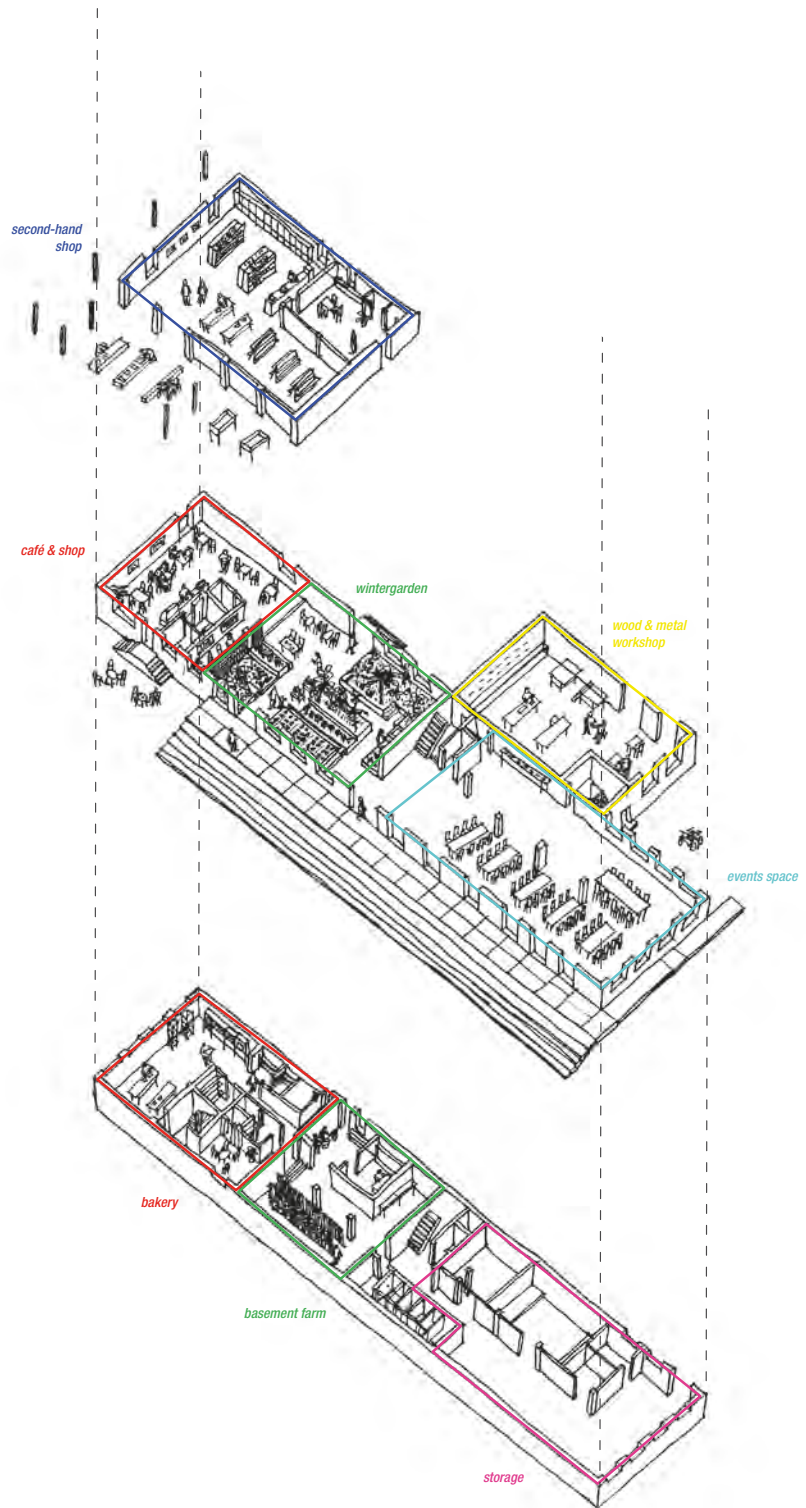
The current and future users are taken into account in further explained subjects and the proposal provides possibilities of realisation in a longer period of time. The functions inside the building will change gradually over time and will be moved around based on their spatial needs.

The largest interventions are connected to the bearing structures, mainly to the wintergarden, and the new insulated roof.

For heating, excessive heat from the bakery could be used, mainly for the café or the smaller studios, where heating is most needed. For water management, rainwater is collected in the reservoirs and later used for irrigation and the wastewater goes through natural sewage treatment ponds to the brook.



Functions & Programme



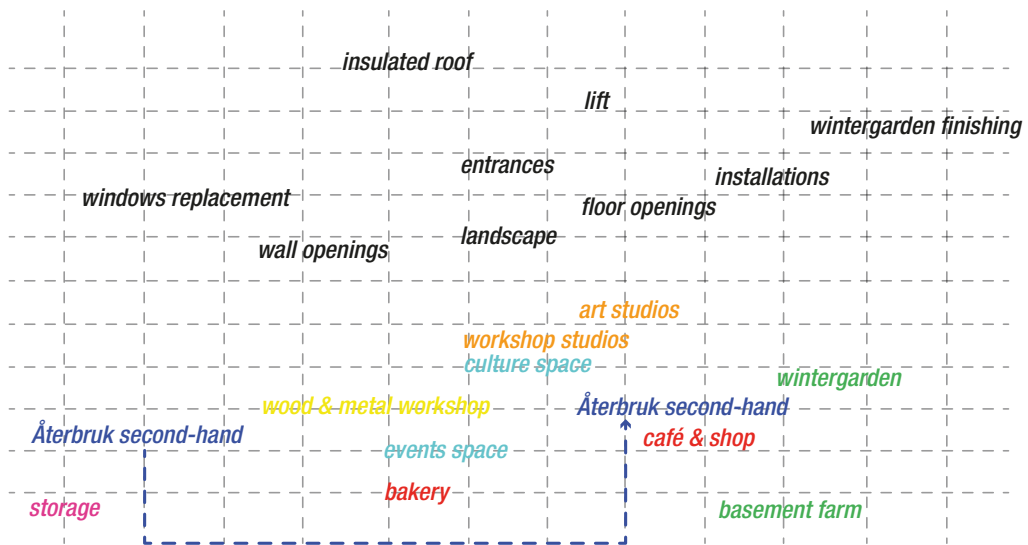
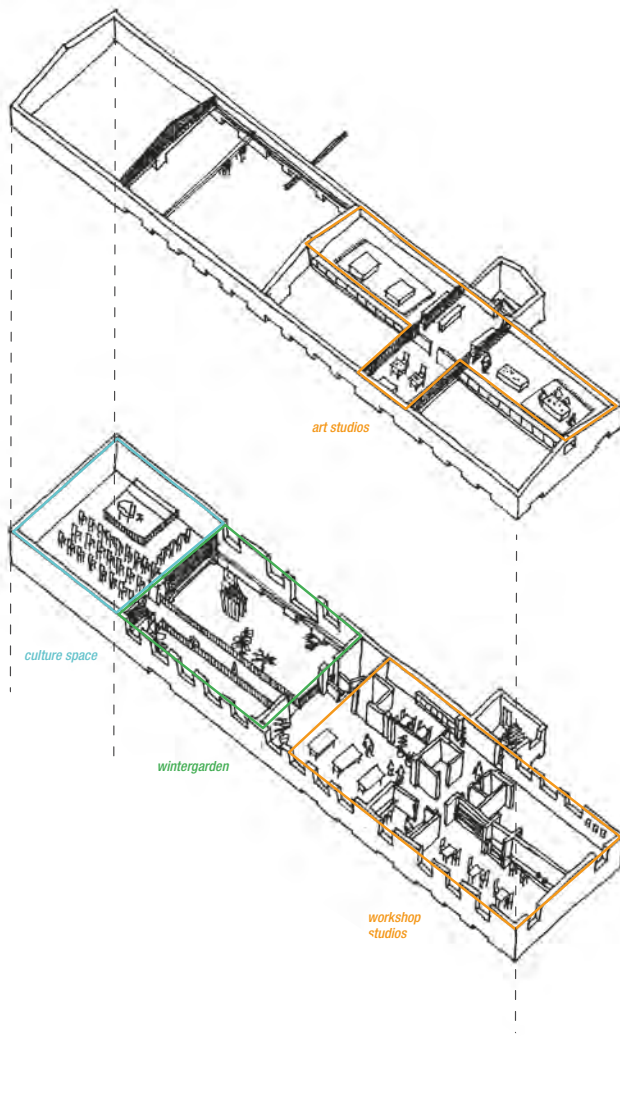
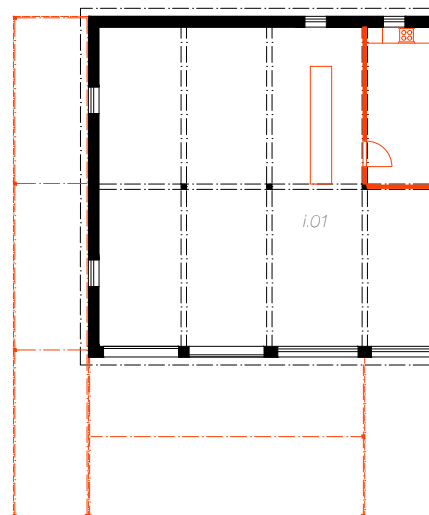
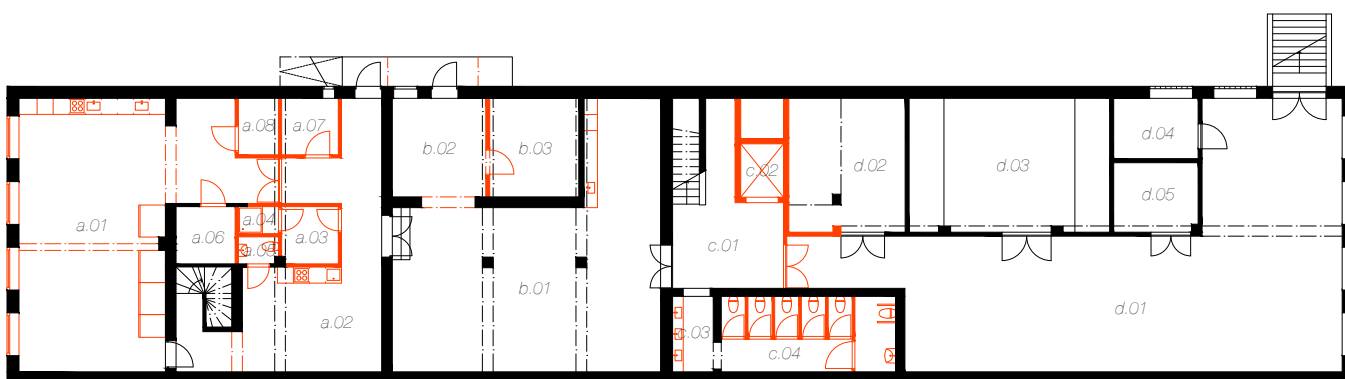


diagram of interventions and functions

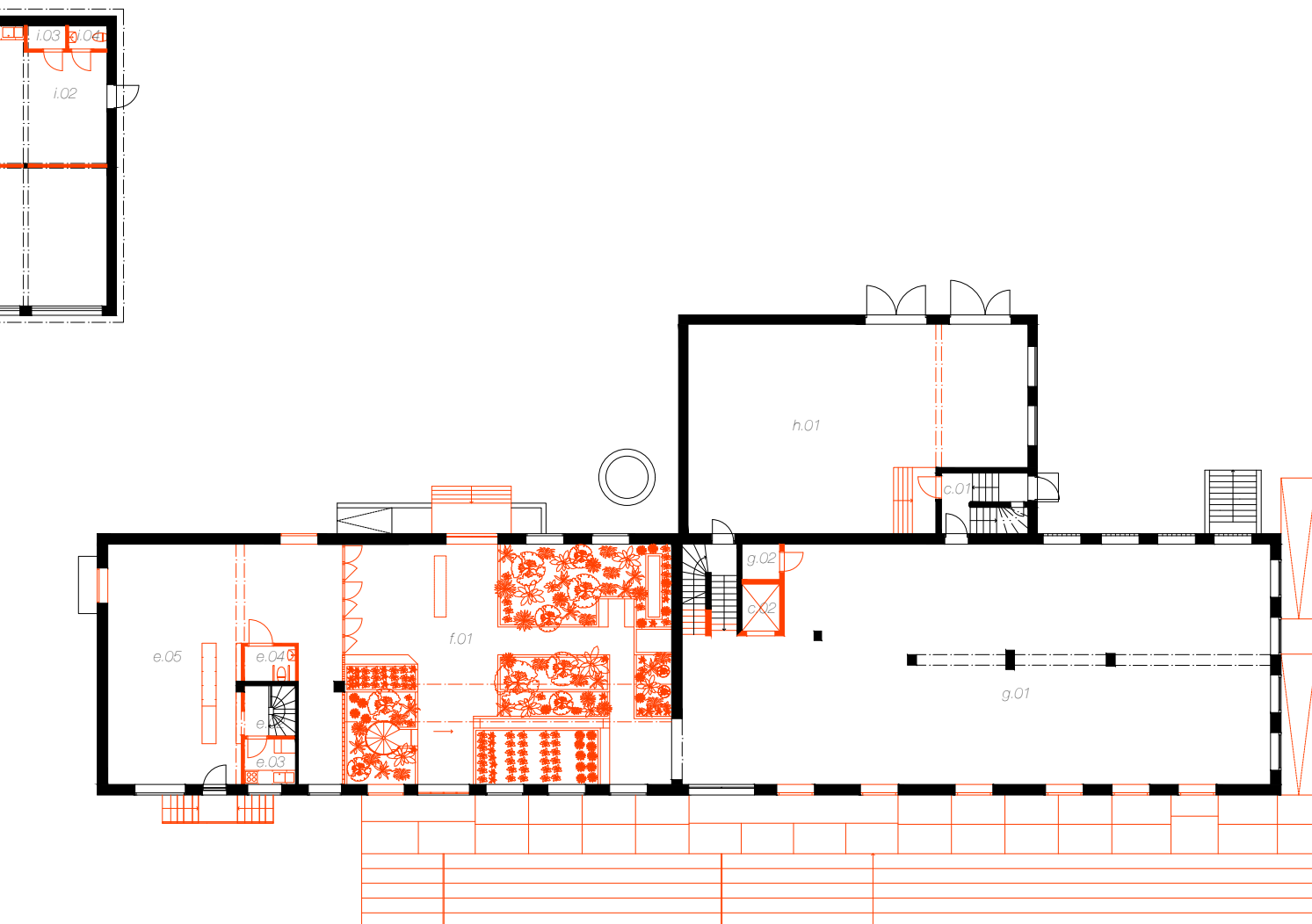


groundfloor

- (c) communications
 - c.01 staircase
 - c.02 elevator shaft
- (e) café & store
 - e.01 café
 - e.02 corridor
 - e.03 kitchen
 - e.04 bathroom
- (f) wintergarden
 - f.01 wintergarden
- (g) events space
 - g.01 main room with entrance
 - g.02 storage
- (h) metal & wood workshop
 - h.01 workshop space
- (i) Återbruk second-hand shop
 - i.01 second-hand shop
 - i.02 staff room
 - i.03 storage
 - i.04 bathroom



basement floorplan 1:400



groundfloor floorplan 1:400

basement*(a) bakery*

- a.01 bakery
- a.02 corridor with break-space
- a.03 staff changing room
- a.04 shower room
- a.05 bathroom
- a.06 freezer
- a.07 storage room
- a.08 rubbish room

(b) basement farm

- b.01 vertical farming room
- b.02 entrance
- b.03 storage

(c) communications

- c.01 corridor
- c.02 elevator shaft
- c.03 washroom
- c.04 bathroom

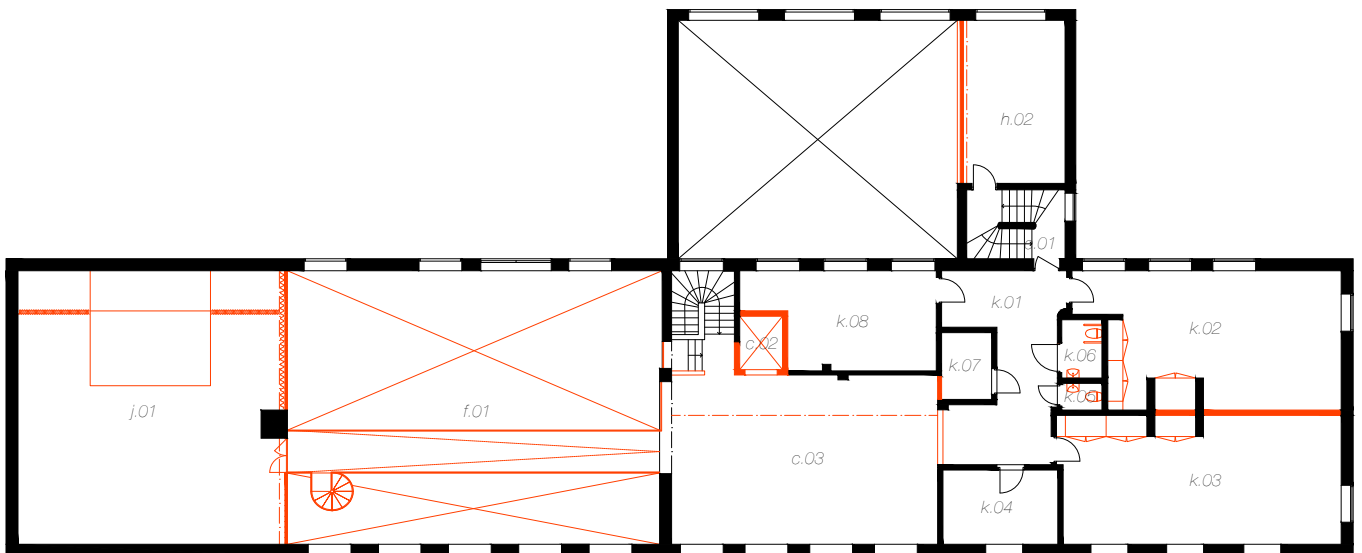
(d) storage

- d.01 main storage room
- d.02 water management room
- d.03 technical room
- d.04 storage room
- d.05 storage room

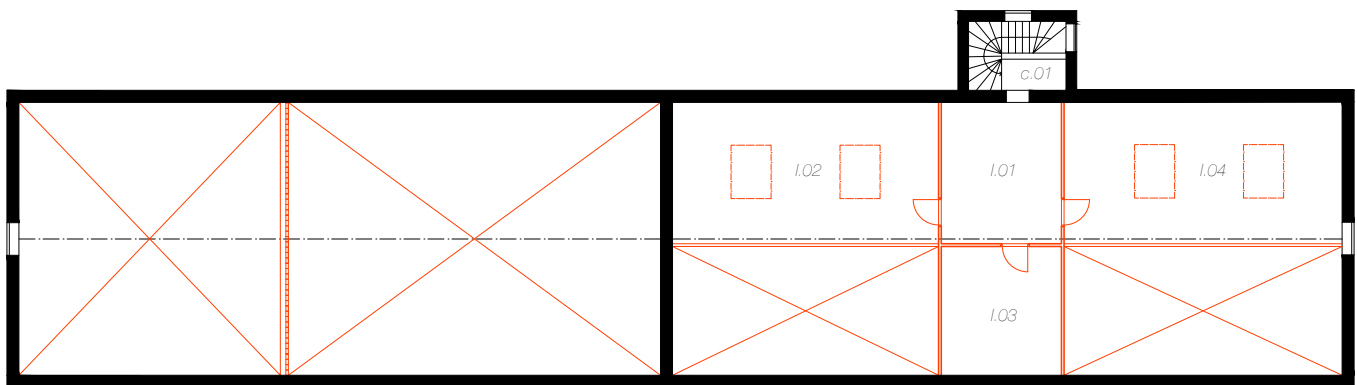
second floor

(c) communications
c.01 staircase

(i) art studios
i.01 entrance room with storage
i.02 studio
i.03 individual studio
i.04 studio



1st floor floorplan 1:400



2nd floor floorplan 1:400

first floor

(c) communications
 c.01 staircase
 c.02 elevator shaft
 c.03 foyer

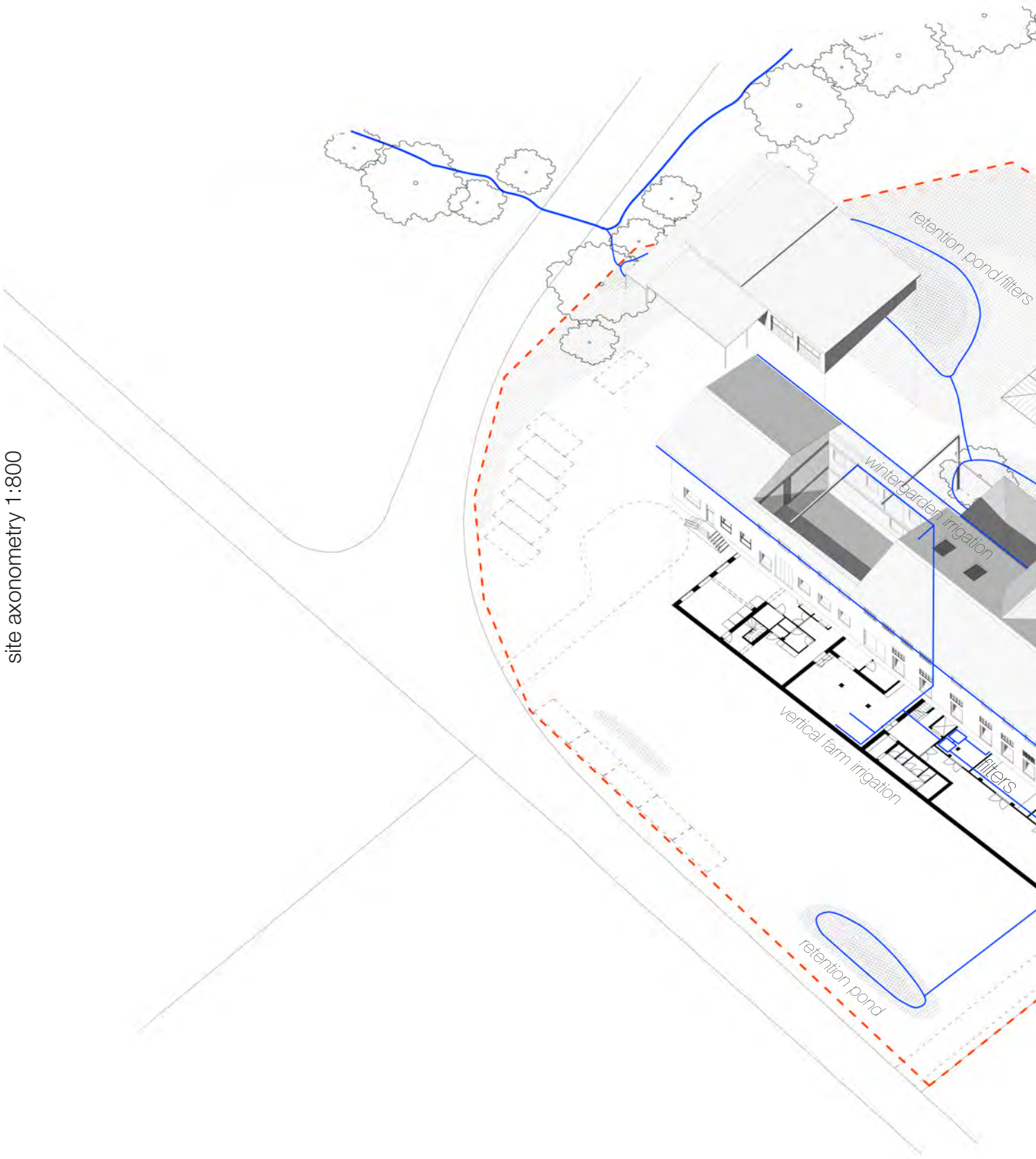
(f) wintergarden
 f.01 wintergarden

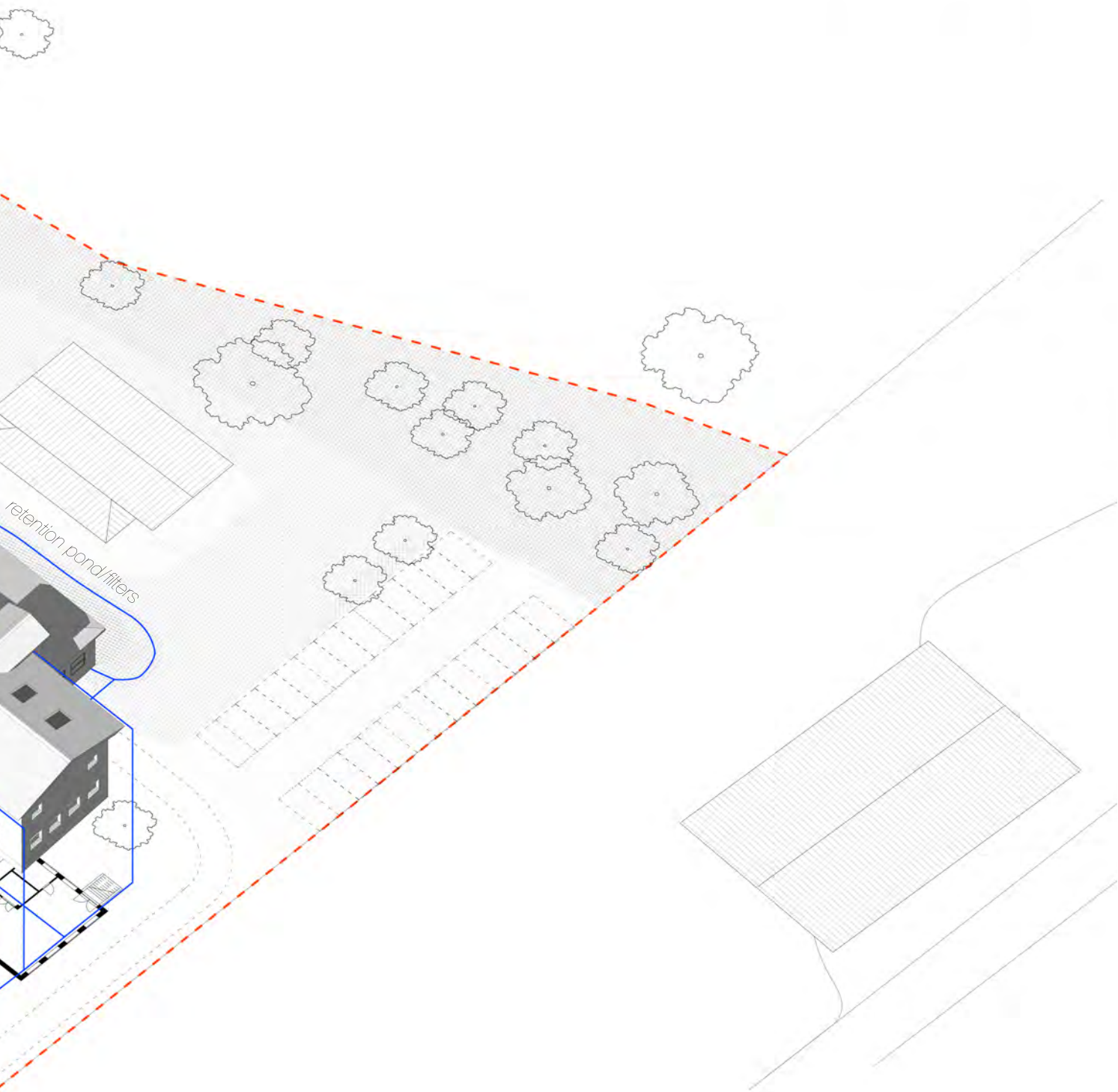
(h) metal & wood workshop
 h.02 workshop office

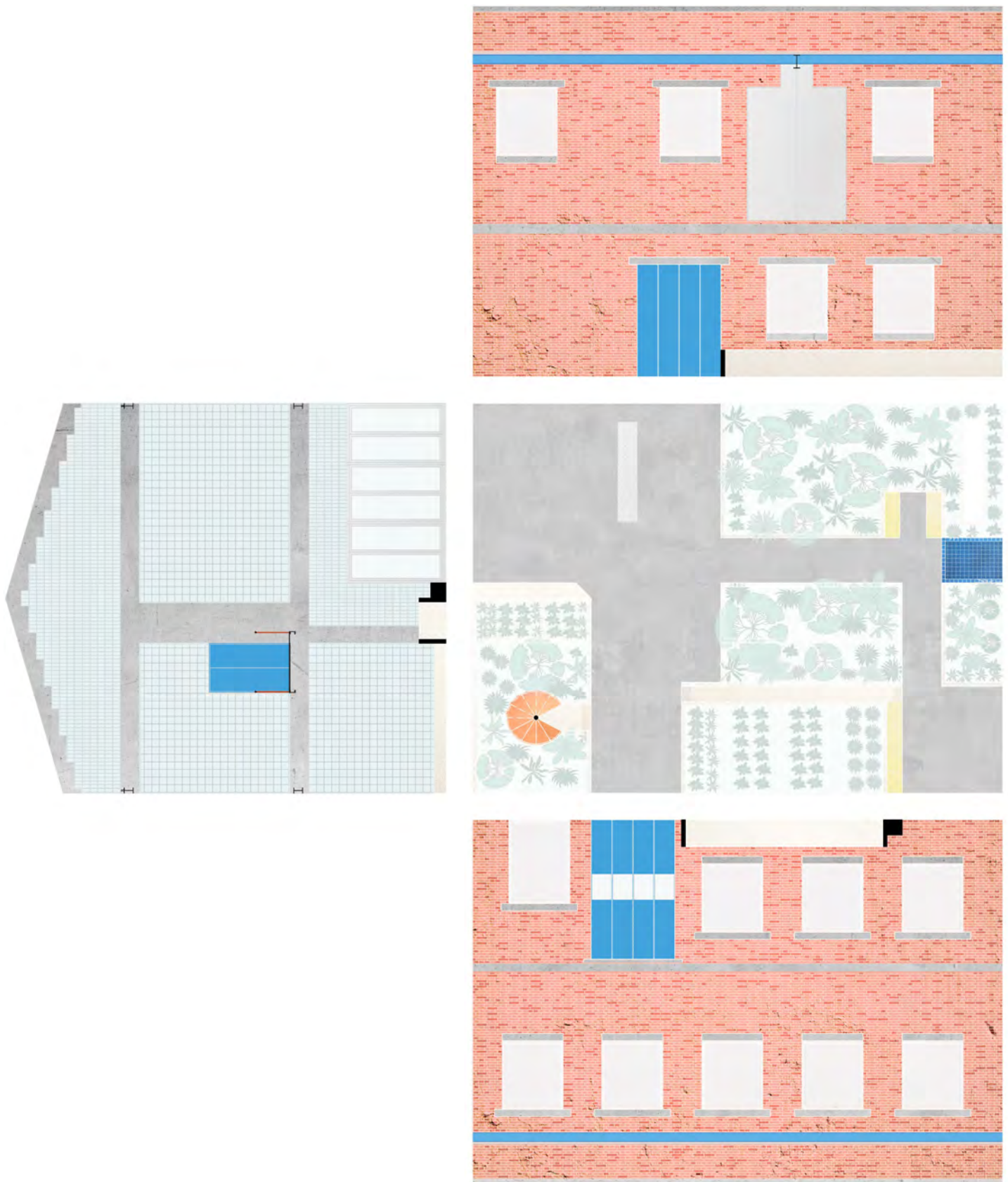
(j) cultural space
 j.01 cultural room with staging

(k) workshop studios
 k.01 corridor
 k.02 studio
 k.03 studio
 k.04 office
 k.05 bathroom
 k.06 bathroom
 k.07 storage
 k.08 studio

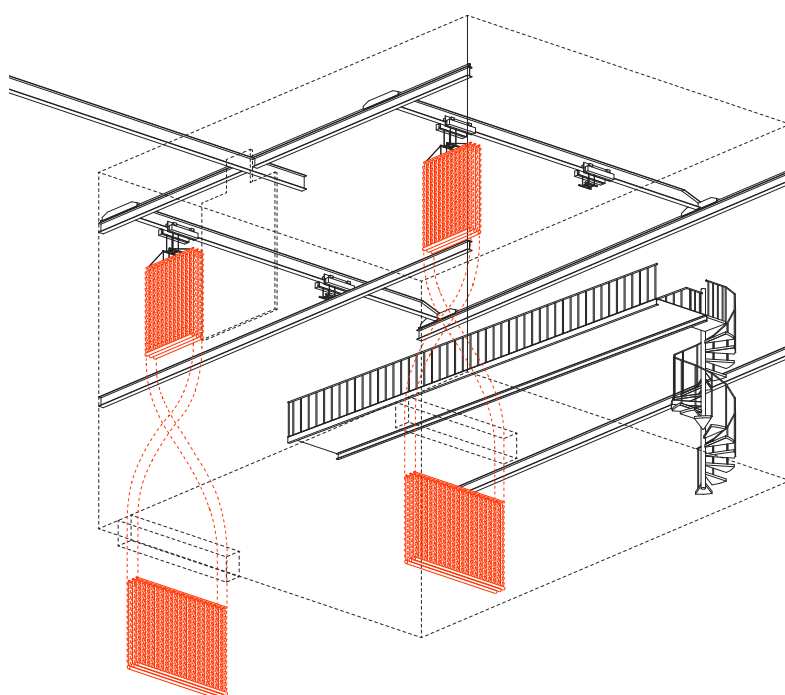
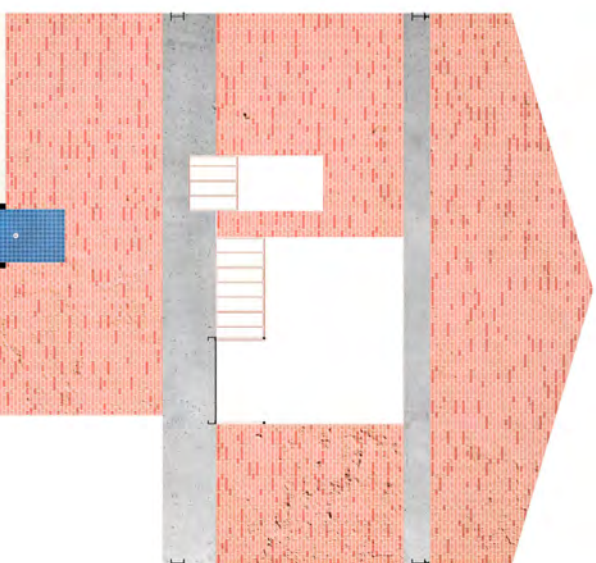
site axonometry 1:800







wintergarden floorplan & elevation 1:400



vertical farming axonometry

site section 1:800

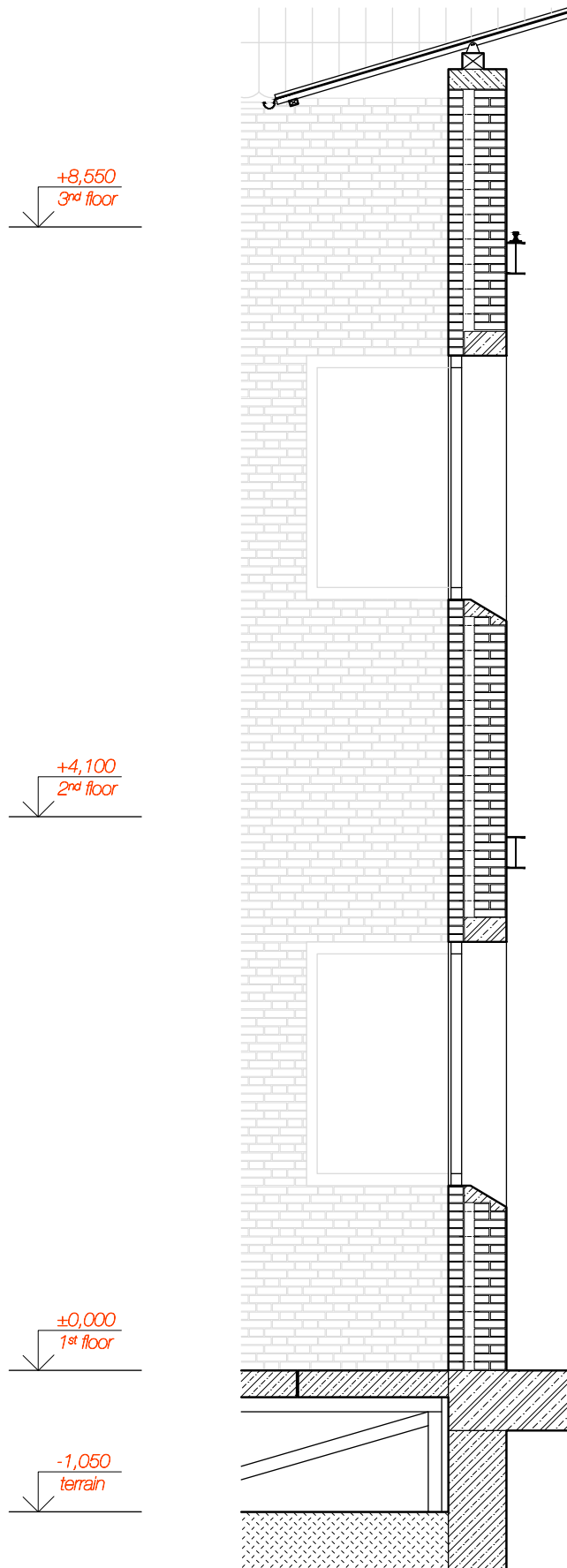




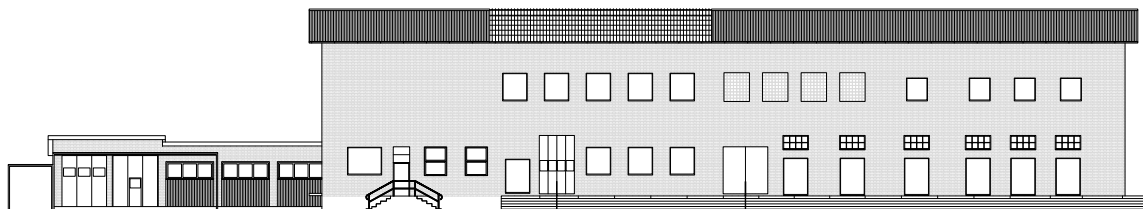
wintergarden perspective



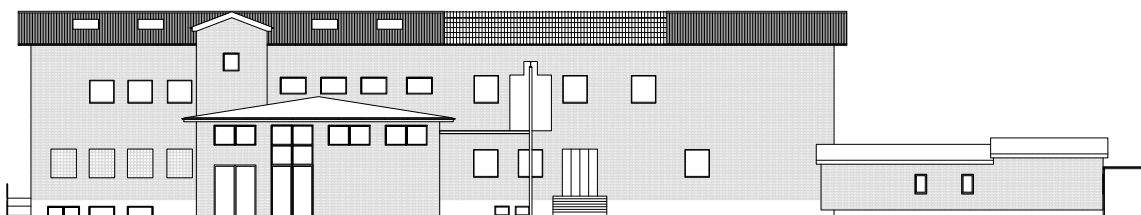




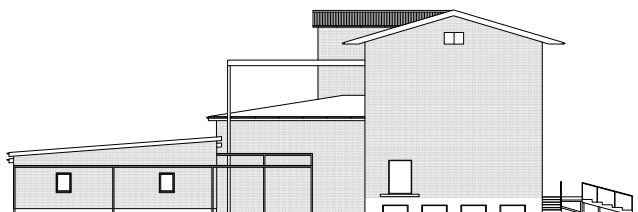
facade section & elevation 1:50



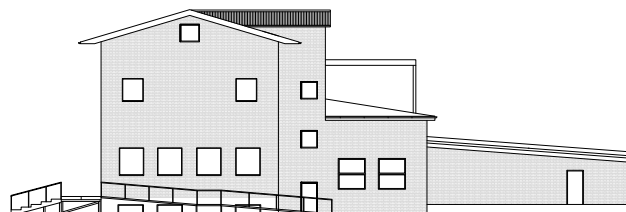
west elevation 1:800



east elevation 1:800



north elevation 1:800



south elevation 1:800

