

Pegged in Posts and Pillars

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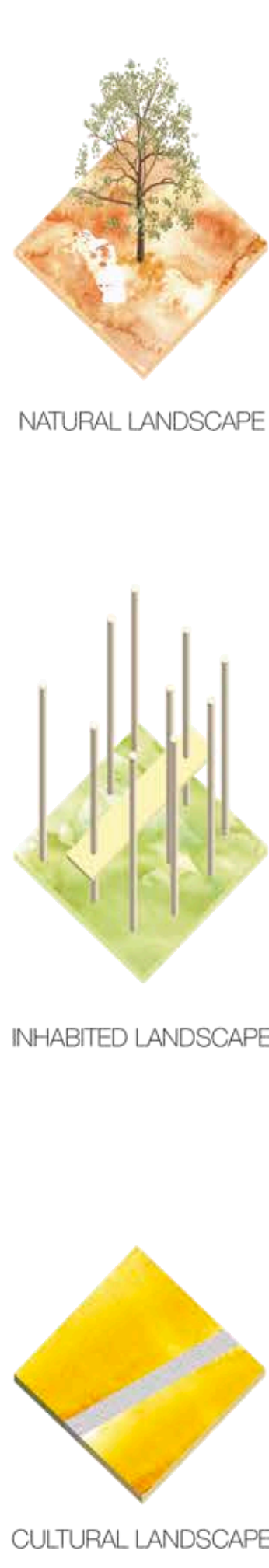
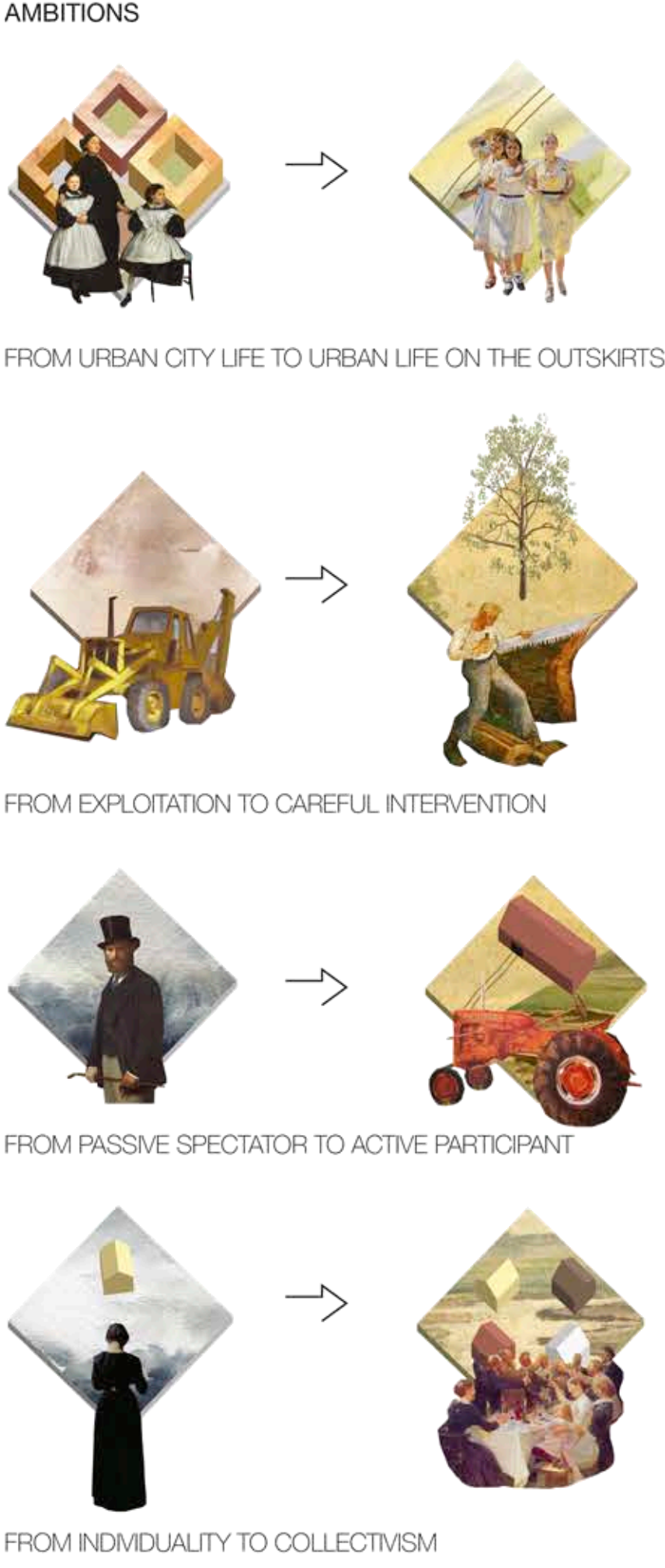
Dystlandhaugen is a farm in Nes, Akerhus with ambitions. Ambitions to create a modern and visionary rural environment for urban people desiring qualities the capital city and its land costs cannot offer. In light of the municipality's focus on attractive and sustainable housing, the project seeks to provide new and innovative housing concepts with complimentary functions. A new barn designed and built by students at AHO was completed in June 2016, receiving national and international attention. As a continuation of its concept, the farm land owner Terje Maarud intends to design and build eight housing units on four adjacent plots to the barn. To realise the 'urban farming' ambitions, the project develops strong housing concepts to attract creative, resourceful and, to a certain degree, collective people.

The site is located on a forested height overlooking the characteristic cultural landscape of surrounding open farmlands, making the extensive sky dome an important element of the place. In contrast, the plots are characterised by tall trees and largely untouched forest floor. A large 1980 house and a garage occupy one of the plots, and a small cabin another. Currently the house is rented and in need of renovation, while the cabin may be moved or demolished.

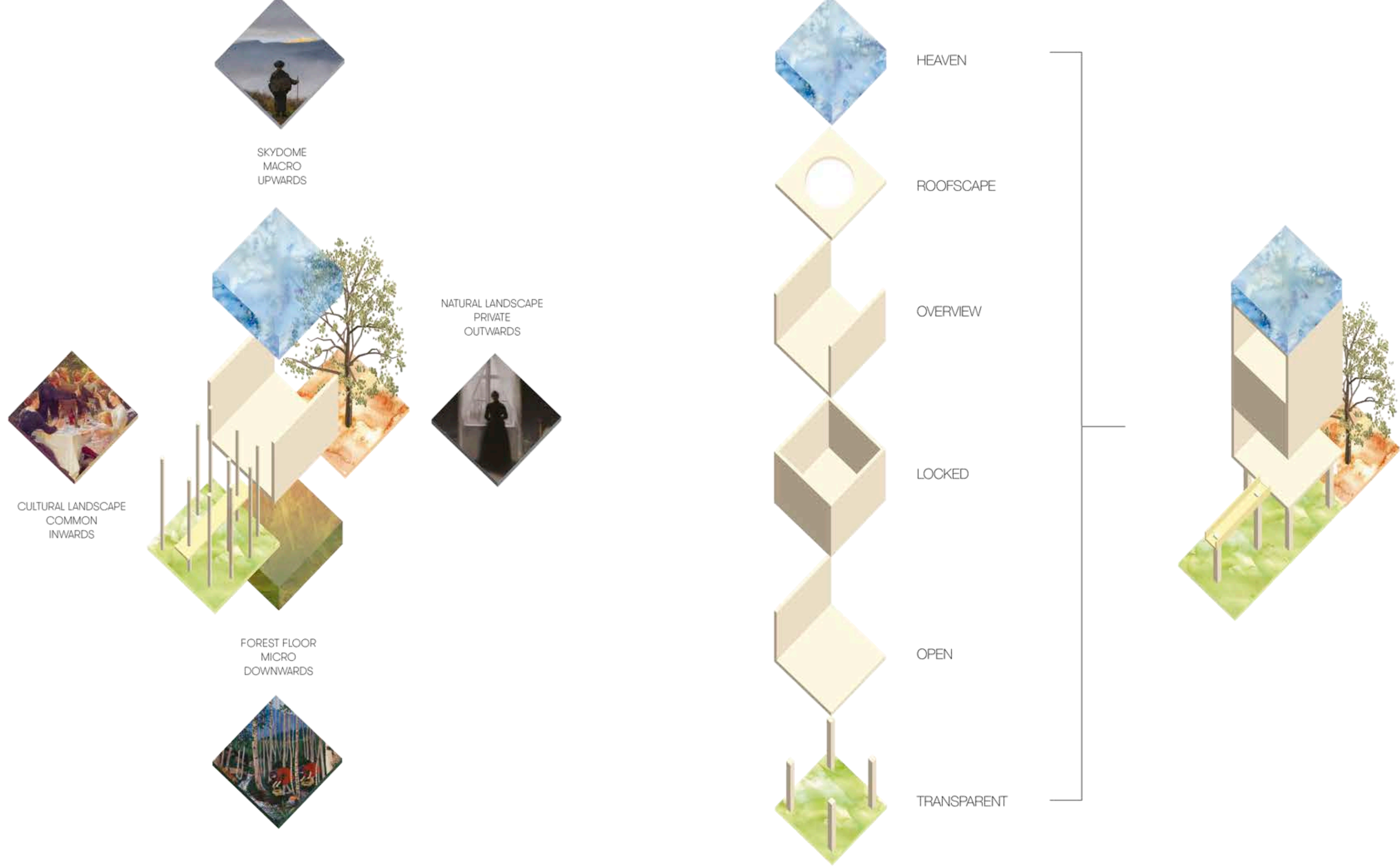
Our concept may be seen in light of the winning proposals "Stev om stav og stolper" by Lund & Sildto architects and "Bete Betski" by Turid Hjalund for the Norwegian cabin competition by Åi municipality in 1966. Today's commercial developments of the cabin, make use of its principles of prefabricated modules that allow flexible and custom tailored cabins – within a timeless and honest design. These principles are also important for our housing project at Dystlandhaugen, in addition to a place-specific approach. The vertical quality of the immediate plots in contrast to the horizontality of the surroundings was important to work with for our proposal.

The housing units explore a concept of living in vertically stacked spaces, accommodating a range of activities, functions and atmospheres. The construction consists of 16 columns in a grid of four 3x3m areas spaced 1m apart. The load bearing columns allows flexibility in the vertical positioning of slabs, providing clear boundaries between spaces and a variety of ceiling heights. All vertical communication is facilitated in the 1m in-between space, creating a sequence of spaces from the forest floor to the tree tops. Each unit may be accessed on the first floor from a common raised walkway and platform above the forest floor.

To maintain the principles of modularity in a vertical context, the wall elements, stairs and window openings have a common denominator of 175mm. This building set accommodates a range of different floor plan solutions and unit sizes to respond to the specific place and client's requirements. The building aspires to minimise its footprint by being raised on pillars and its construction time with pre-fabricated elements. Timber is the main material throughout the project, exploring its benefits in uses from construction to finishes.



CONCEPT OF VERTICALITY



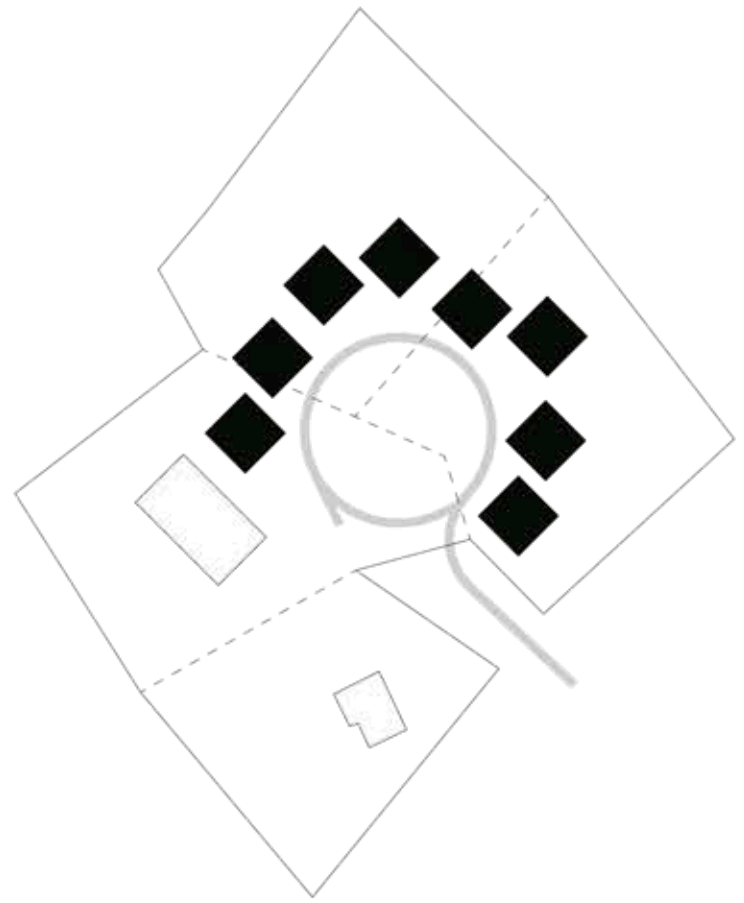
DENSITY FIGURES

Typology: cluster / detached
Stories: 3-4 floors
Site area: 5 492 m2

ALTERNATIVE 1

Our chosen solution with a high degree of shared space.

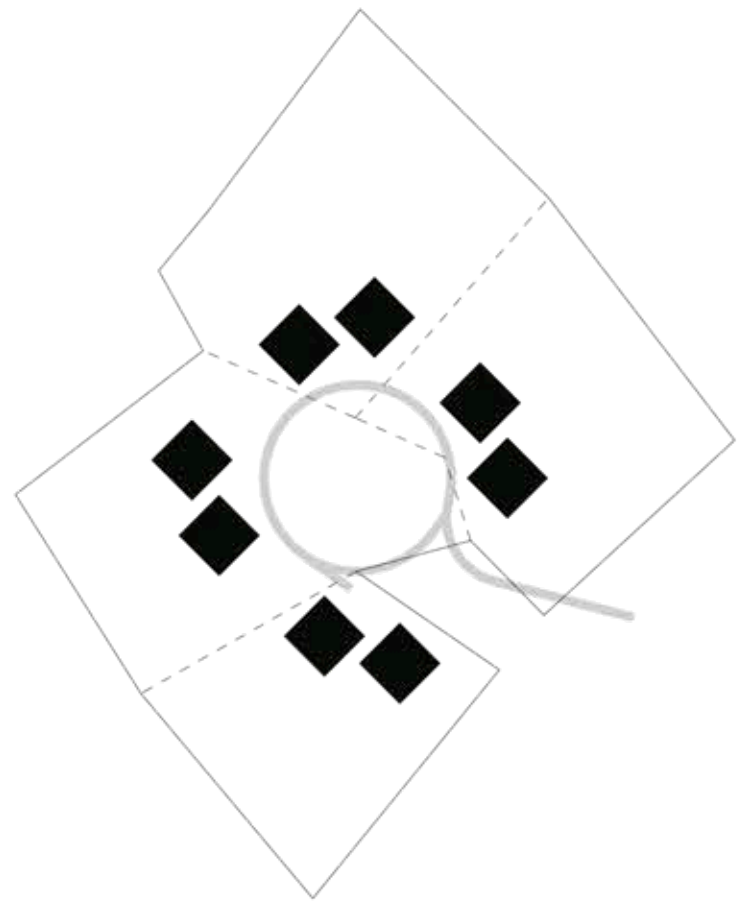
Site area: 5 300 m2
Units: 8 dwellings + existing
Gross area: 1 574 m2
Footprint: 662 m2
FAR: 29,7 %
COV: 12,6 %



ALTERNATIVE 2

Solution with eight units - two units per site. No buildings kept.

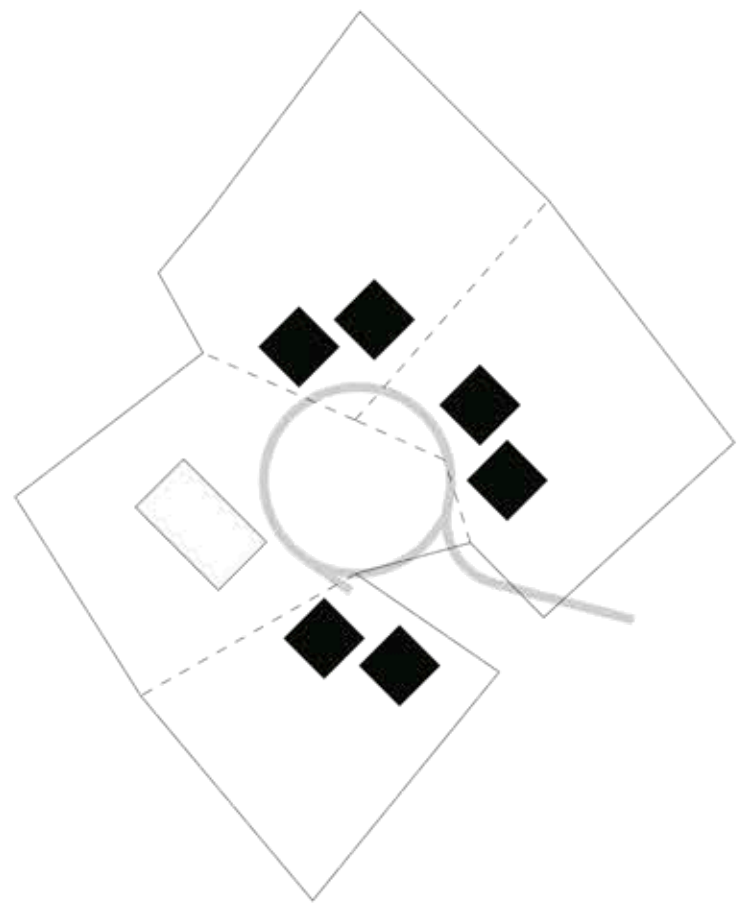
Site area: 5 300 m2
Units: 8 dwellings
Stories: 4 floors
Gross area: 1 282 m2
Footprint: 475 m2
FAR: 24,2 %
COV: 8,6 %



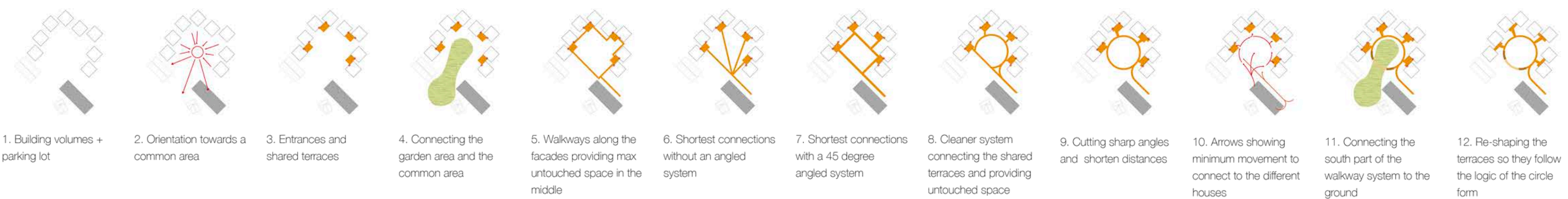
ALTERNATIVE 3

Solution with six new units - kept old house.

Site area: 5 300 m2
Units: 6 dwellings + existing
Stories: 4 floors
Gross area: 1 212 m2
Footprint: 496 m2
FAR: 22,9 %
COV: 9,36 %



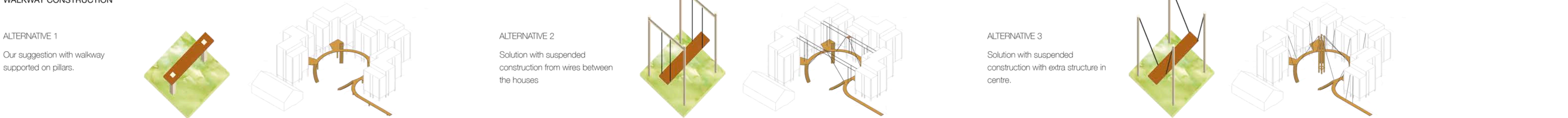
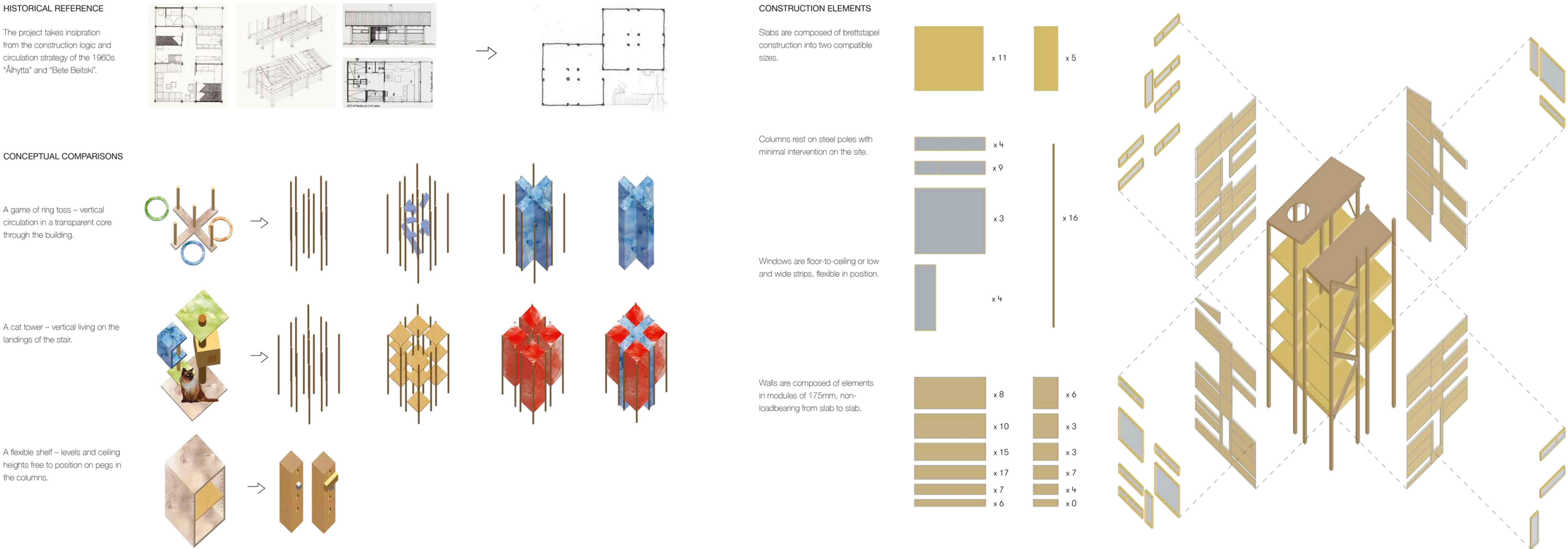
DEVELOPMENT OF WALKWAY DESIGN



SITE PLAN AND STRATEGY

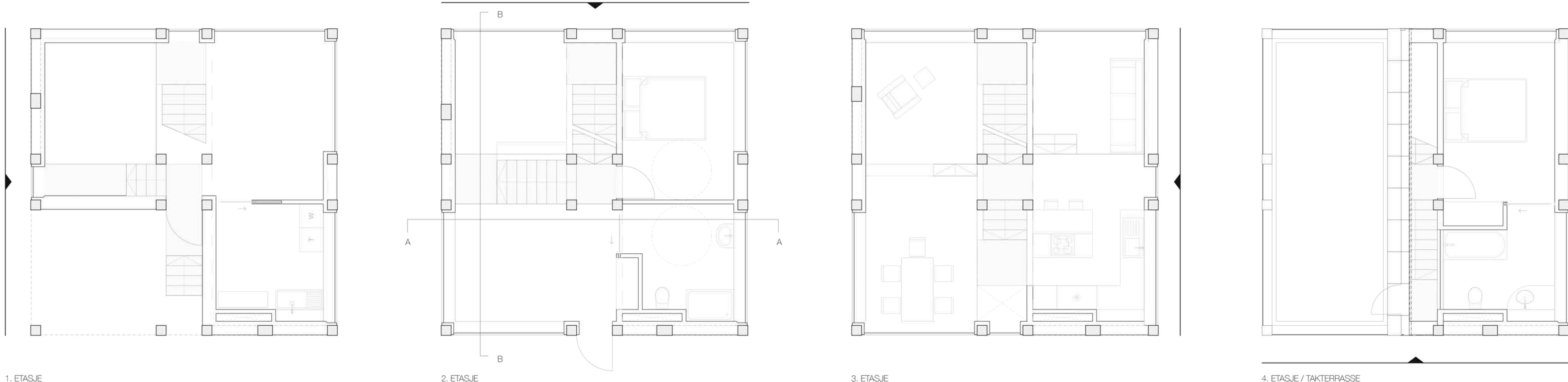
1:200







PLANS
1:50



SECTION A-A
1:50



SECTION B-B
1:50



VISUALISATIONS

