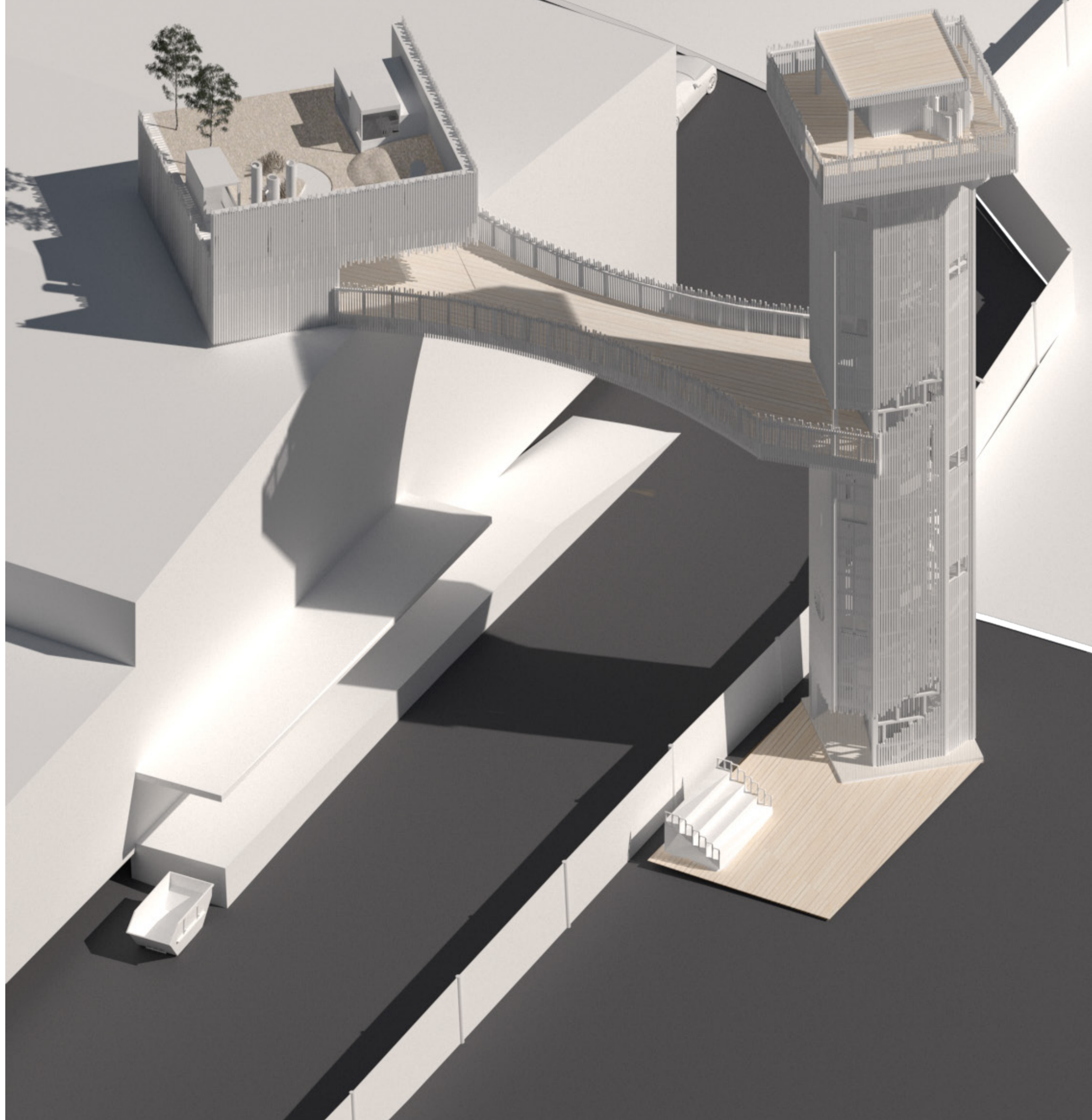


Gustav erlandsson
Prototype: Säve The Birds
Urban Prototypes Ace 465
Januari 2024





Gustav Erlandsson
Prototype: Säve The Birds
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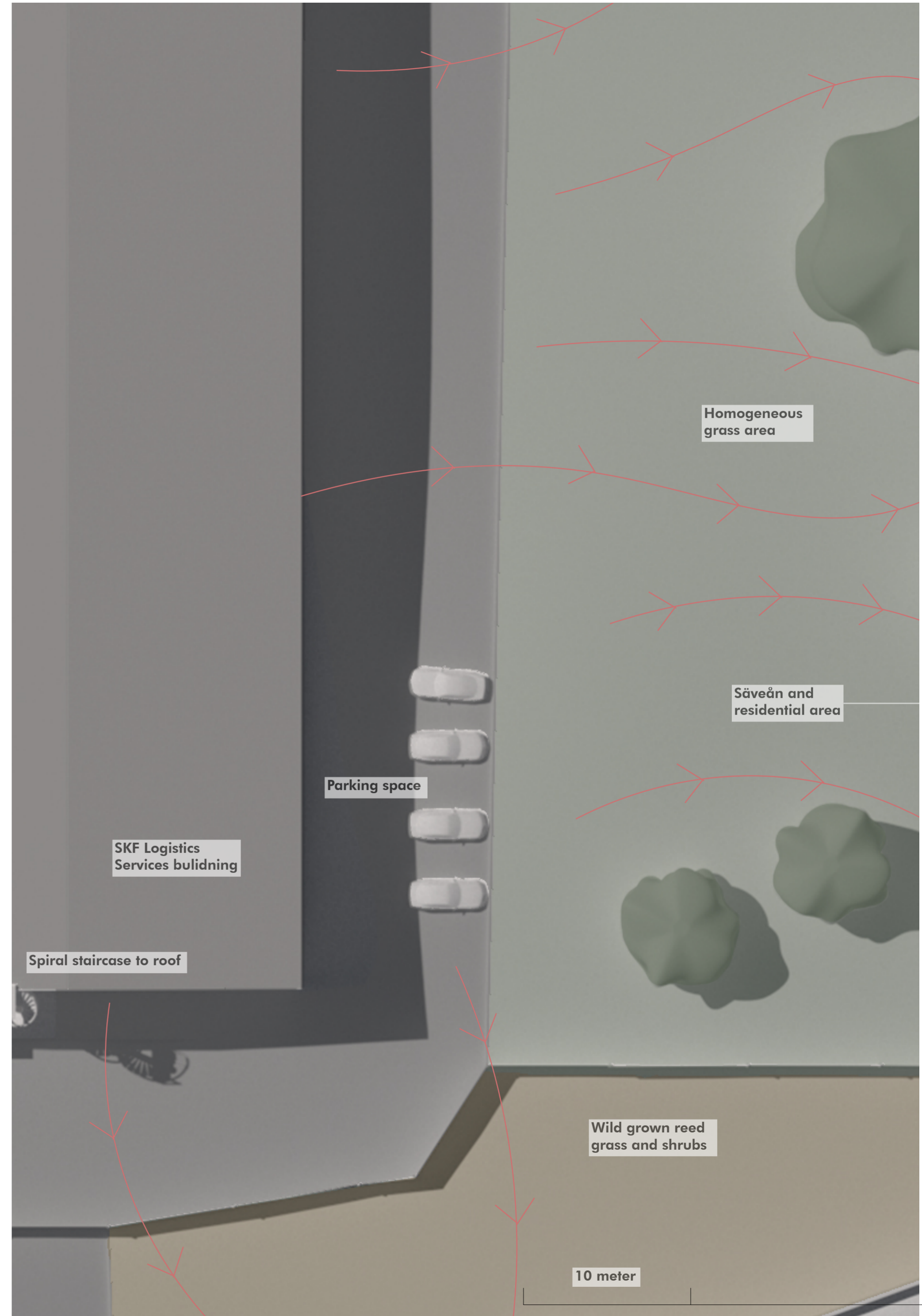
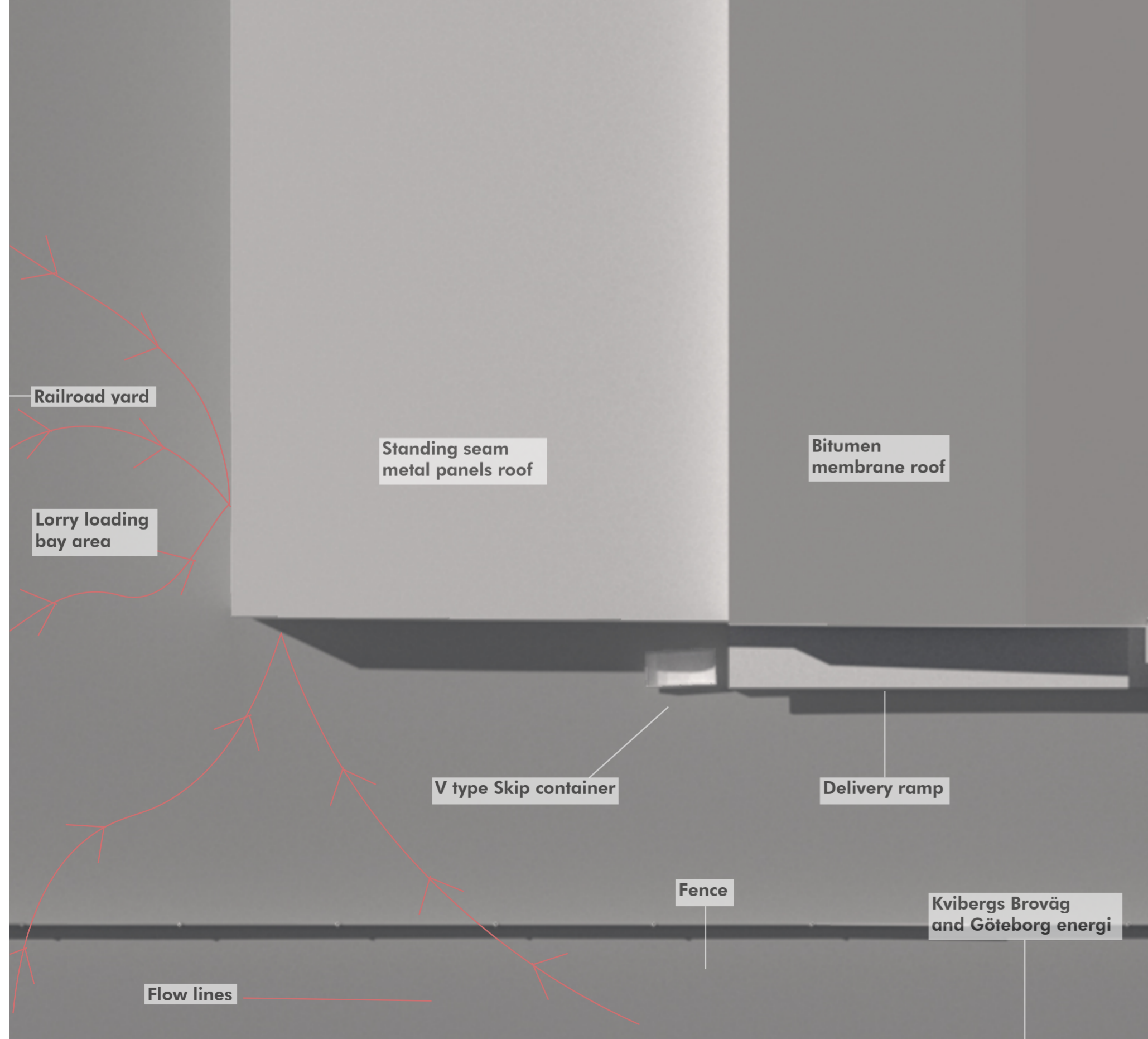
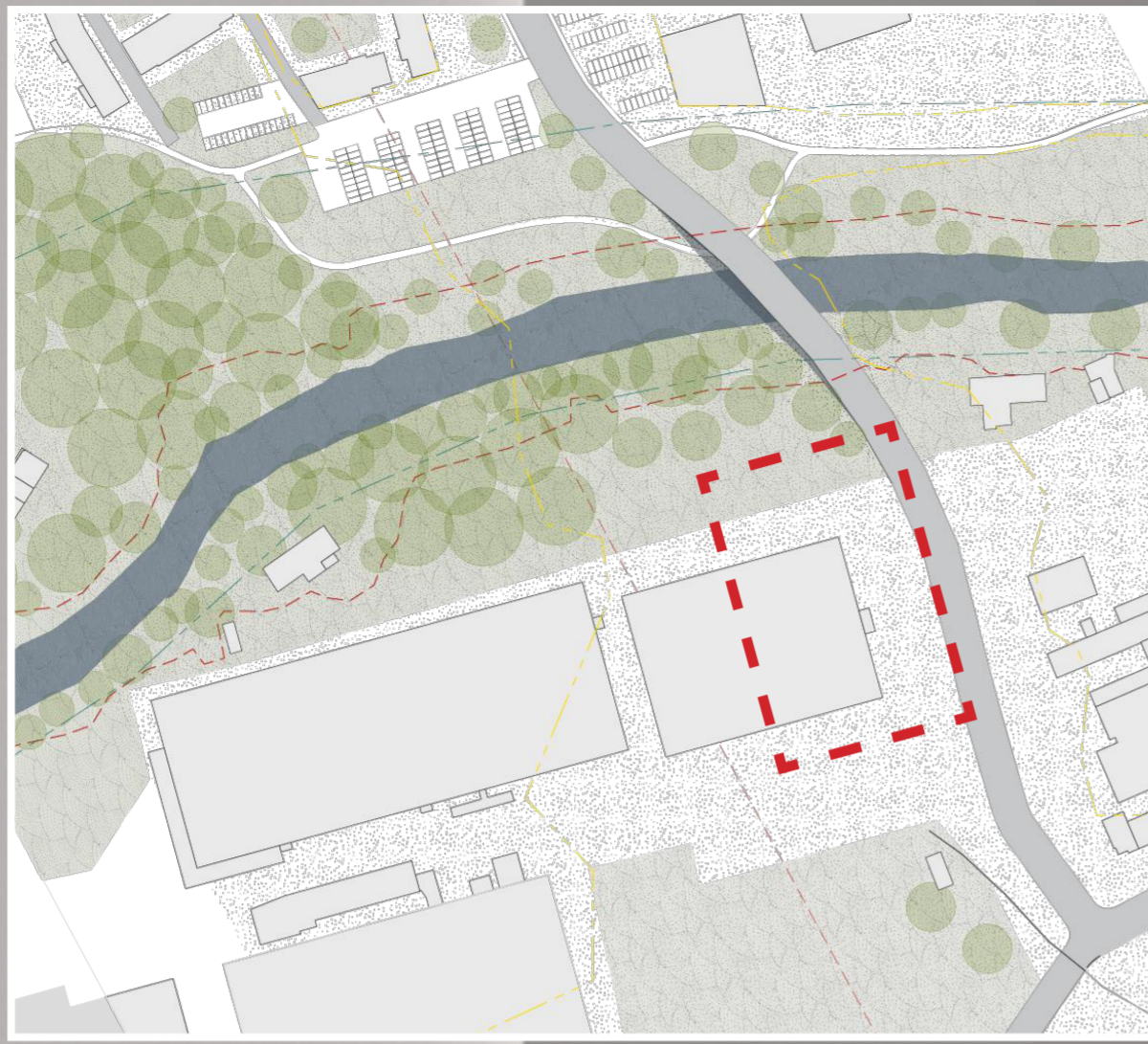
Chalmers
HT23 (15 hp)
06 Januari 2024
Examiner: Joaquim Tarrasó



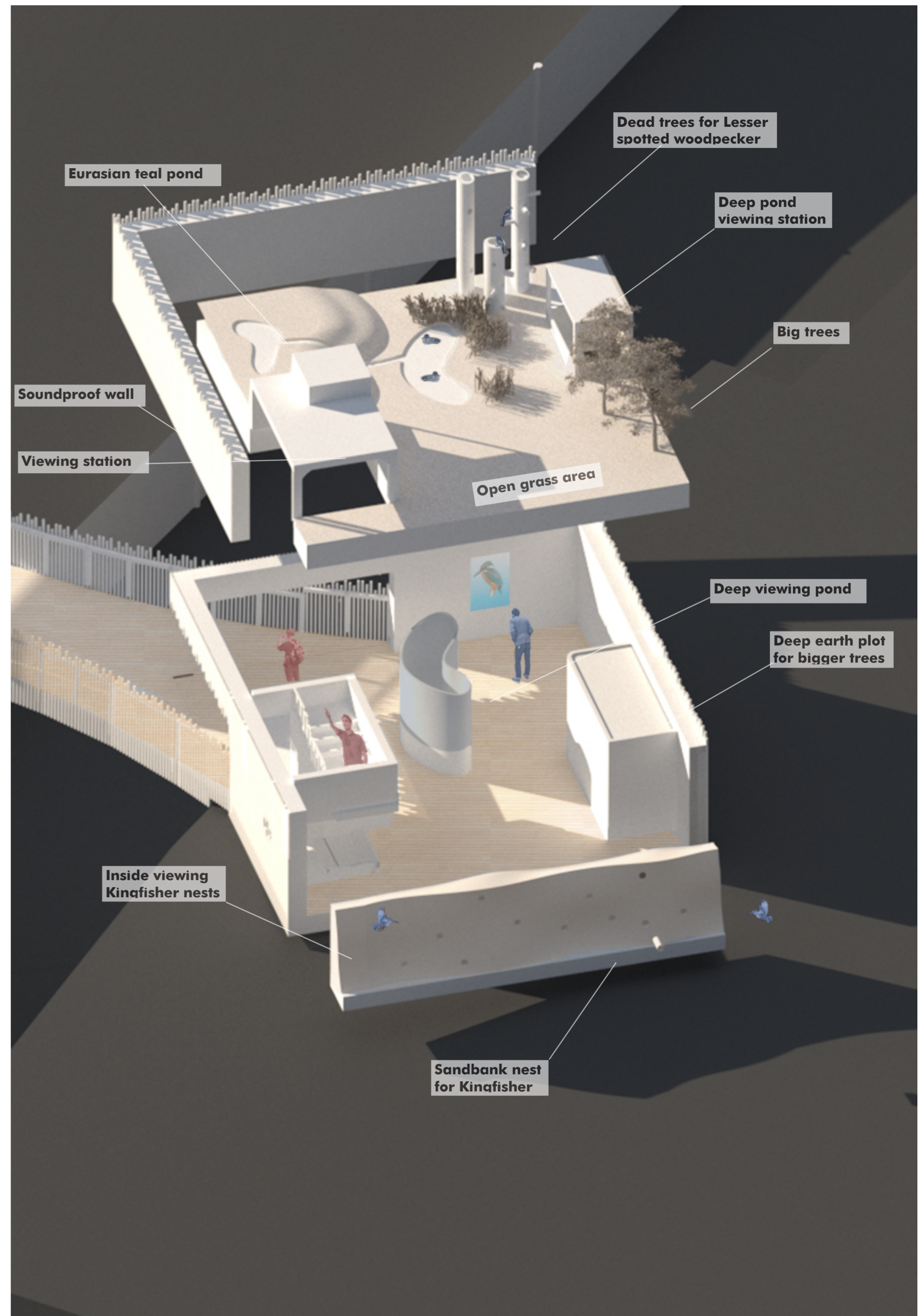
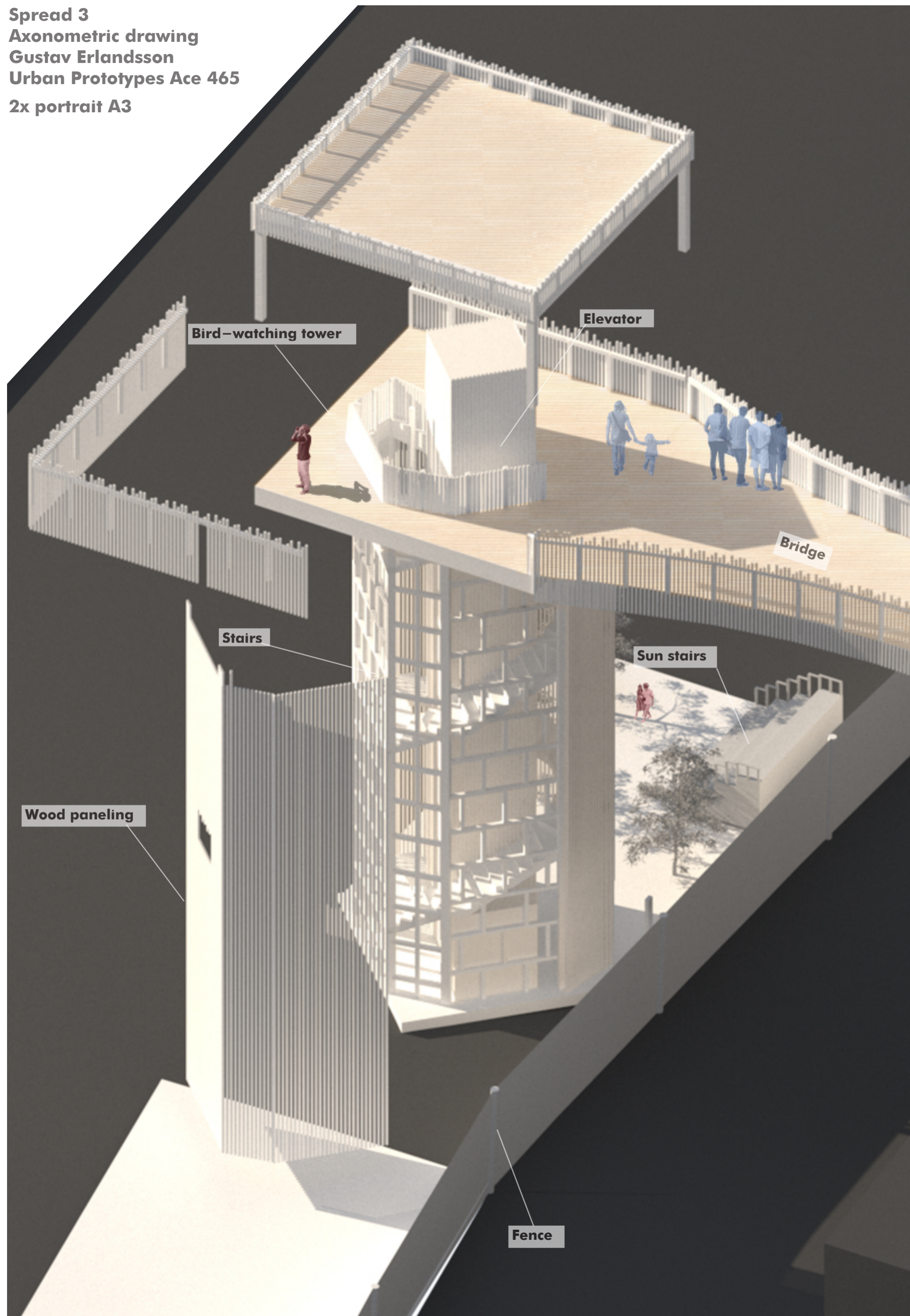
10 Meters

25 Meters





Spread 3
Axonometric drawing
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2x portrait A3



SWOT Analysis

The aim of the prototype have been to try to create habitat for the three birds that stay in S ve n, Kingfisher, Lesser Spotted Woodpecker and Eurasian Teal. The goal was also to create a social meeting place where people could learn and meet in a urban environment. The SWOT analysis will examine what have been considered to be the strengths, weaknesses, opportunities and threats for the prototype.

Strengths

The prototype has been proposed to be on industrial roofs around S ve n. The advantage of this is that the roofs are surfaces that are not used for anything today. They are unused so they do not take up natural land or areas that could be used for something else. The possibility of extending the prototype also exists, it is just a matter of continuing to build more of that habitat part. It is also possible to apply to other rivers and natural areas around cities. The tower part itself also has the advantage that it can be seen from afar and create a landmark over the area, similar to the Turning torso and Karlatornet. This can be an advantage when you want to create and sell a new city district.

Opportunities

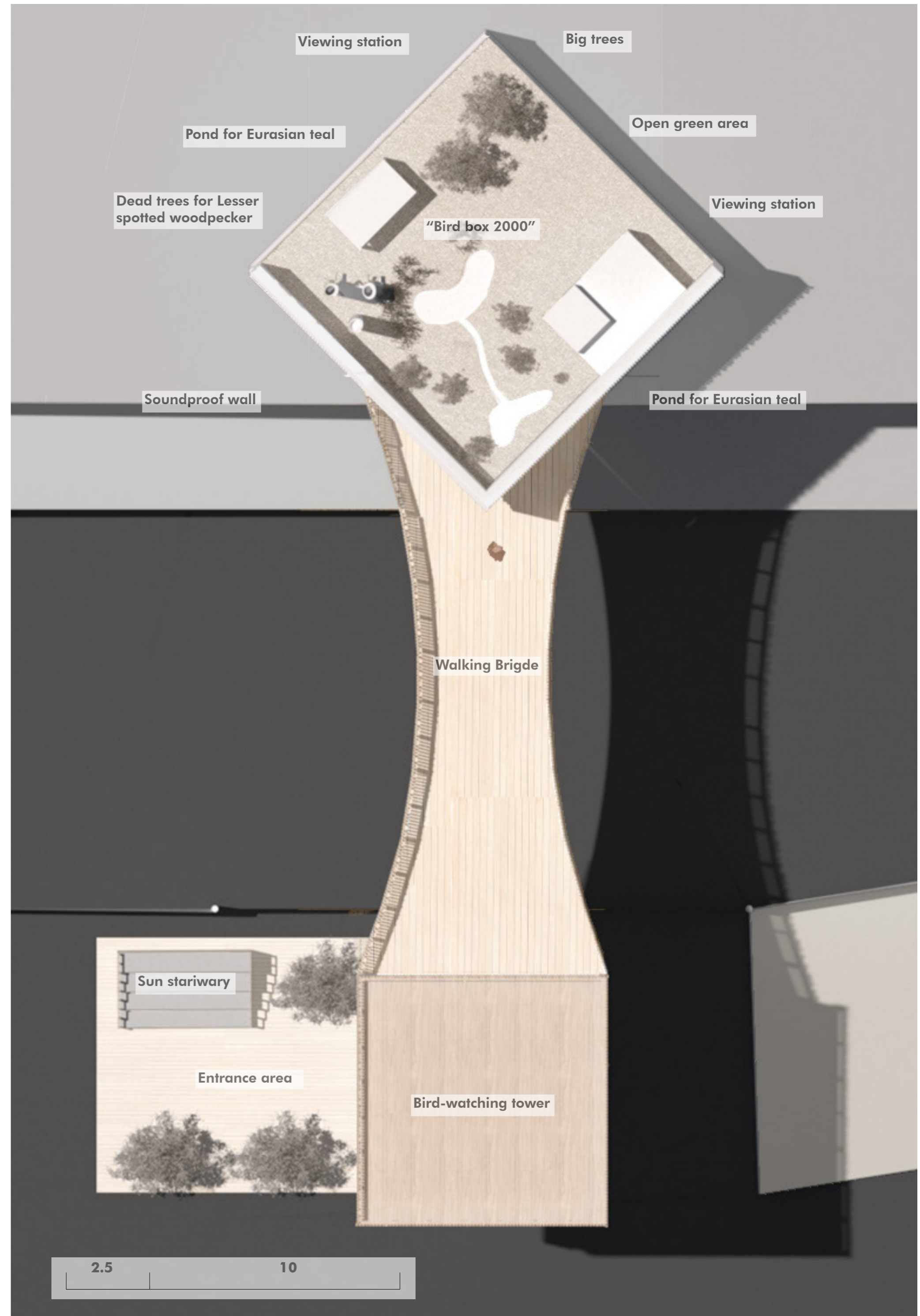
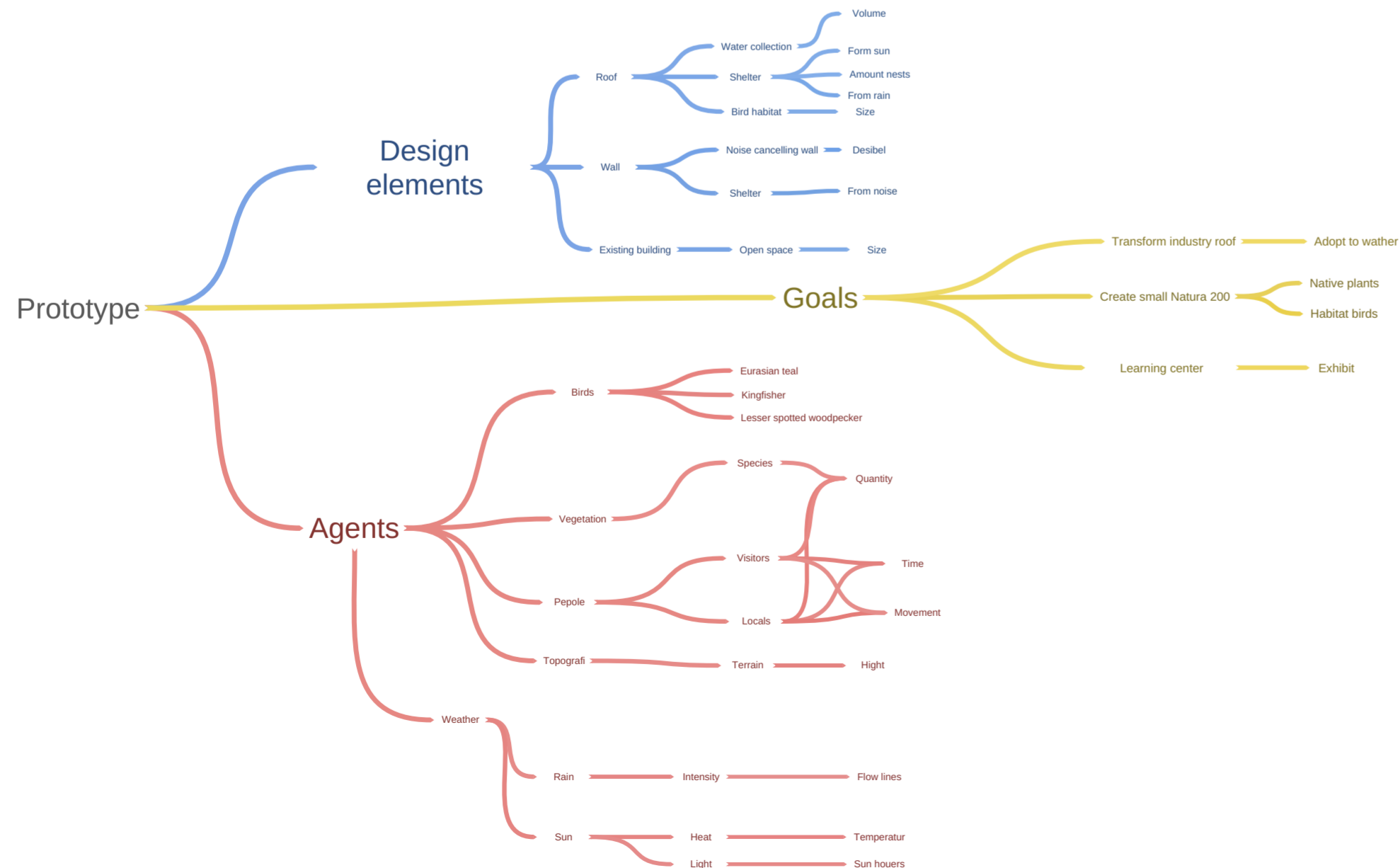
As previously stated, that the opportuniti exists to create a new landmark over S ve n and the possibility to expand the prototype over a larger area. Do to the area largely contains industries of various kinds that is the image of the are, but if you build the prototype, you can get a completely new picture, that the area is scenic and has a rich birdlife that may attract people to visit the area.

Threat

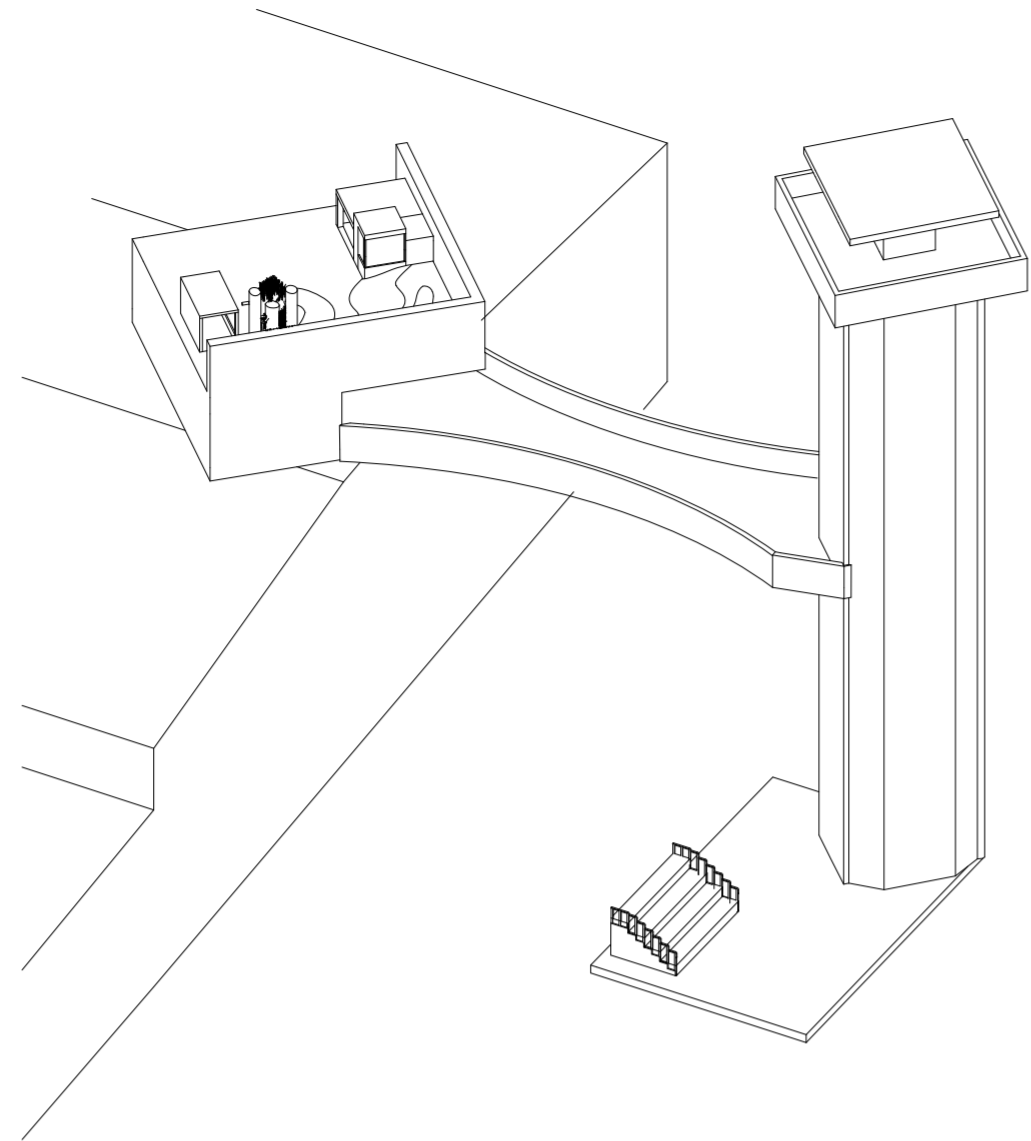
As previously said, the prototype can create a new image of the area instead of the industrial one. This can be used for greenwashing, for example that you have a lot of dirty industry inside the factory but you build a bird habitat on top of the roof and then it's completely okay. Another threat could be that the industries do not want any bird habitat above their operations. This means that you cannot further develop the prototype so that it stretches a longer distance.

Conclusion

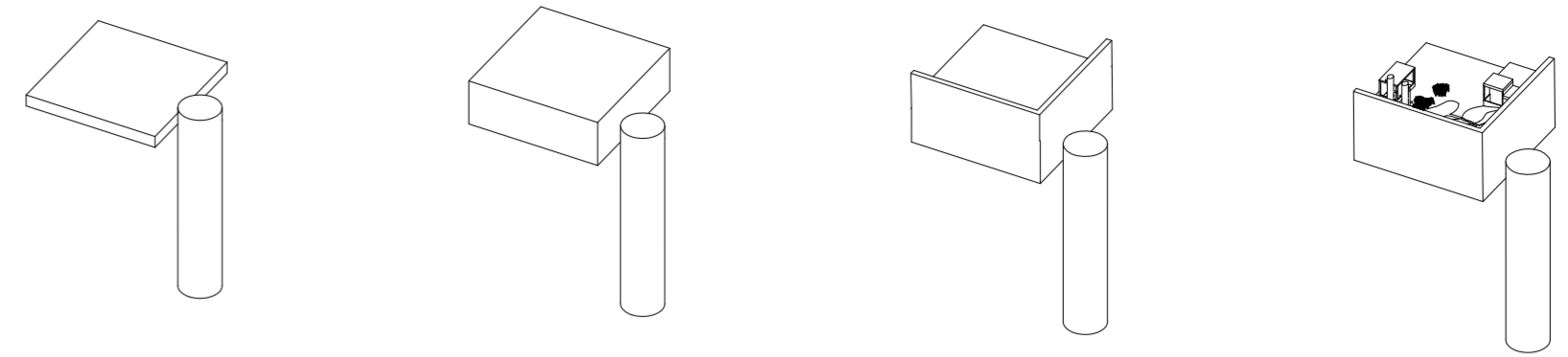
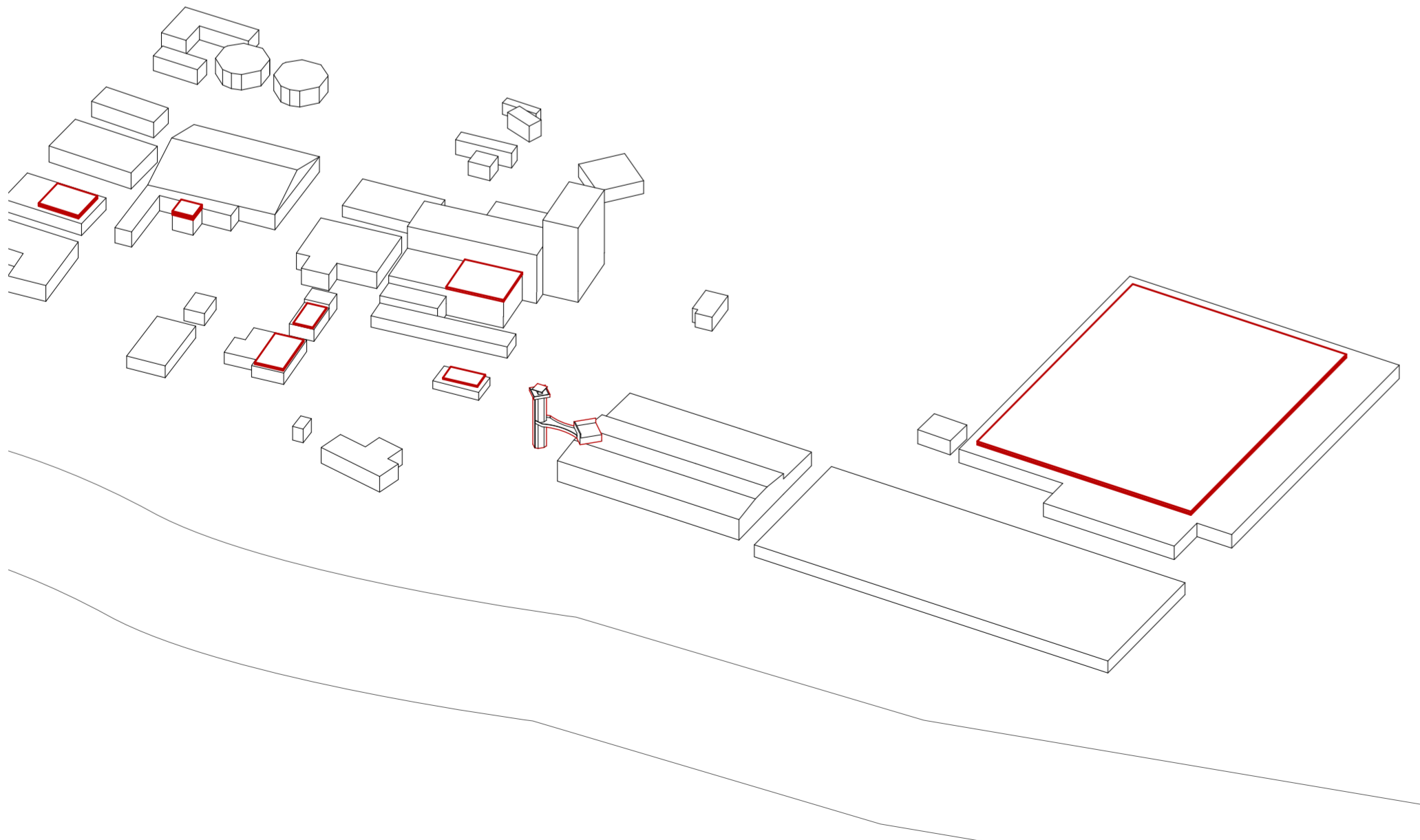
Prototypes should preferably be visionary and bet high. But this means that weaknesses and pitfalls are added. There is a possibility that the prototype could create good conditions for creating a good bird habitat and a social meeting point. But there are still unanswered questions like will the birds want to live there and who will pay for it all.



Spread 5
Evolutionary tree
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The prototype's observation tower doubles in height to create an opportunity to see further distances. For the nearby industrial buildings, even more habitats are created on their roofs. The prototype is then taken to an even greater urban scale.

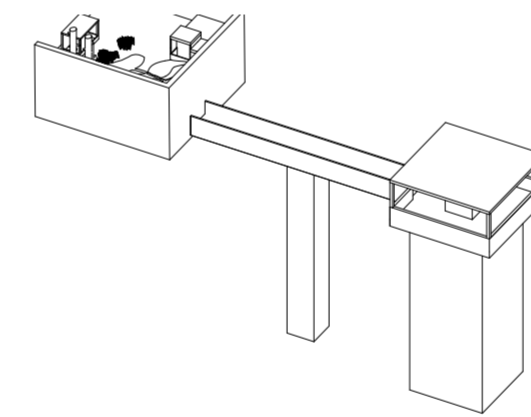
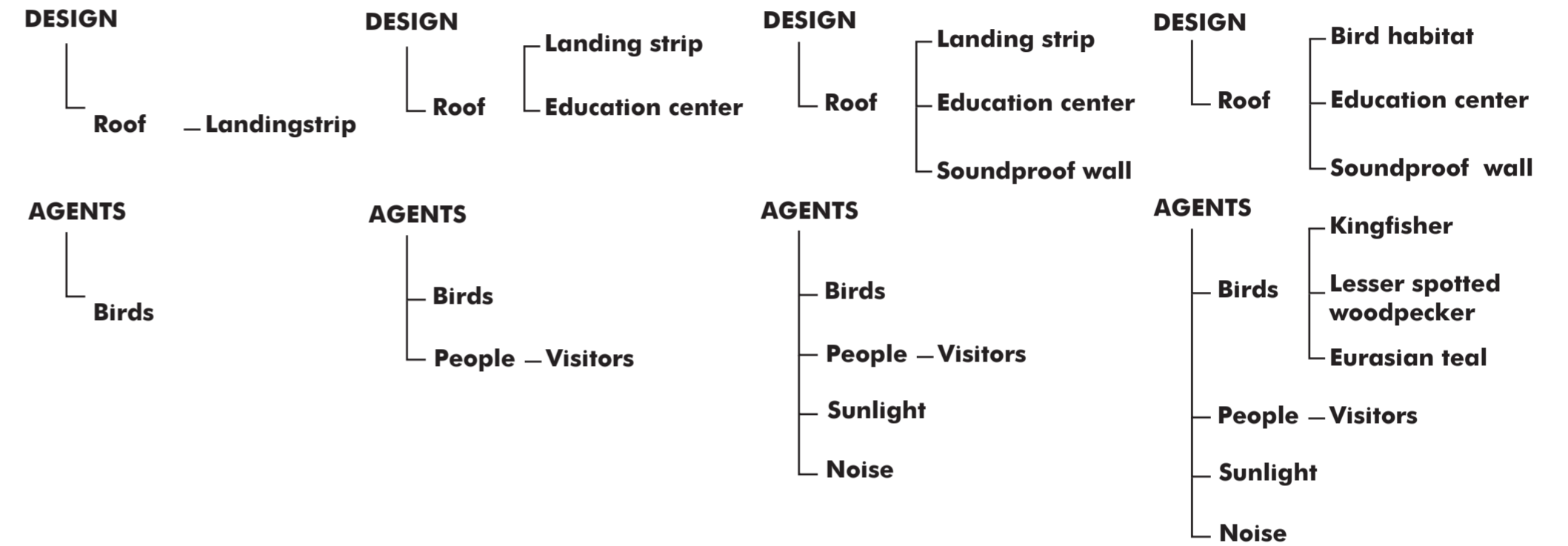


First version of the prototype was only a green roof to be used as a runway for birds. For maintenance, the current spiral staircase would be used.

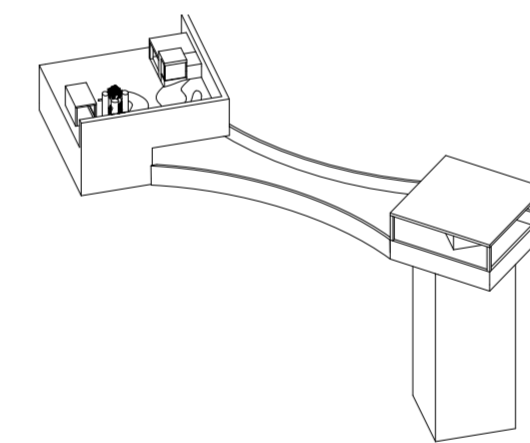
To establish a social aspect to the prototype, an education center about birds under the green roof was created under the prototype. The choice was made as Sävåån has been classified as a Natura 2000 area due to its rich bird and animal life.

The prototype is located in an industrial area with very high noise levels due to all the heavy traffic. A consideration was made regarding sound versus sunlight where it was chosen to erect a Soundproofing wall which reduces the noise level but reduces the sunlight.

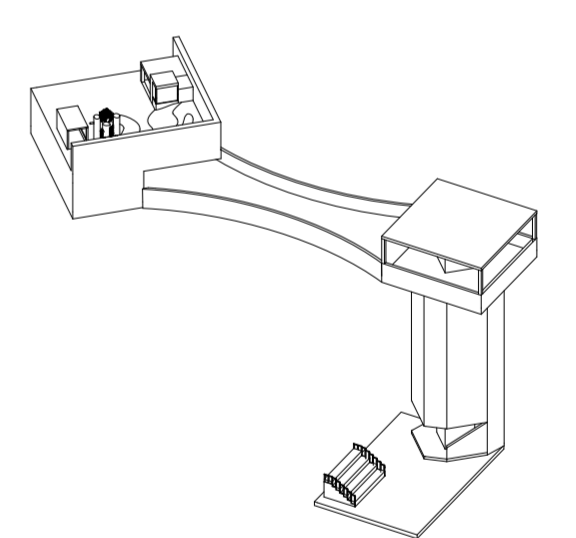
Länstyrelsen has produced a conservation plan for what needs to be developed within Sävåån. One thing that is suggested is creating new habitats for the endangered birds that live in the area. Three birds are selected where their habitat is created on the green roof.



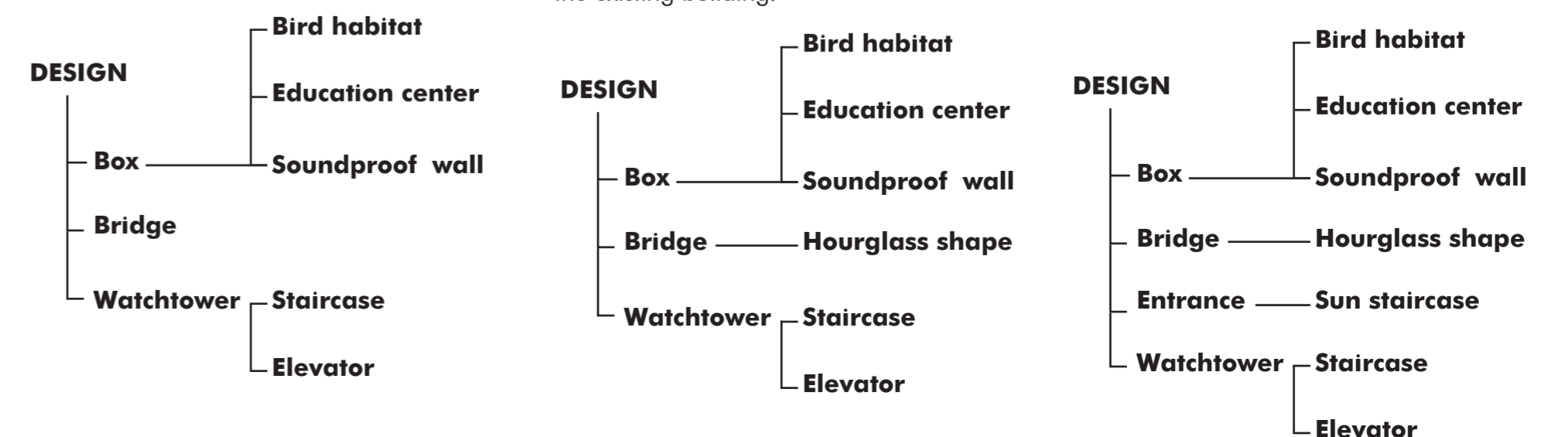
The spiral staircase is not adapted for the amount of people who will go up to the roof, so it is replaced by a bird watching tower with a bridge over to the box. The choice with bridge is made as not to disturb the existing building.



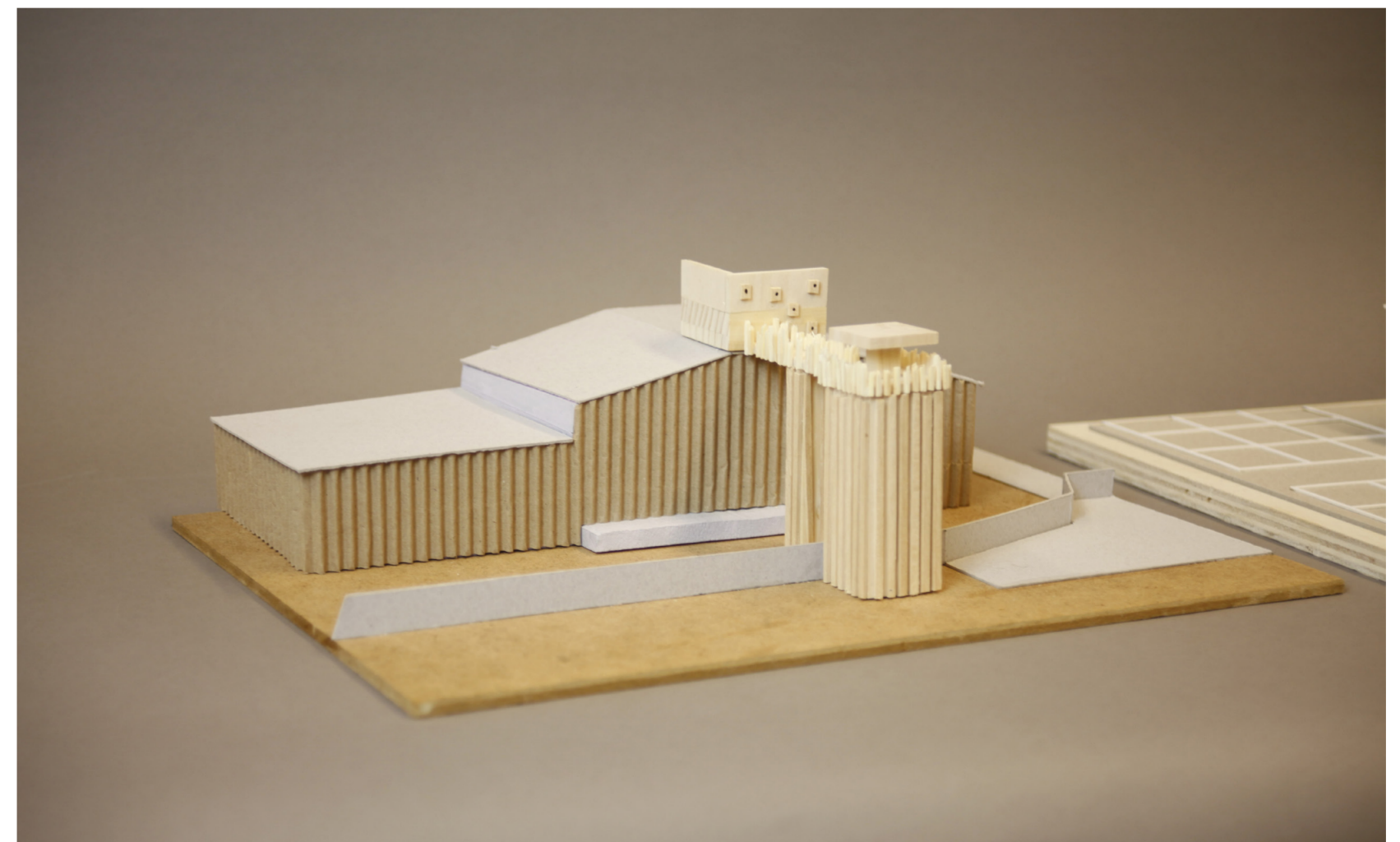
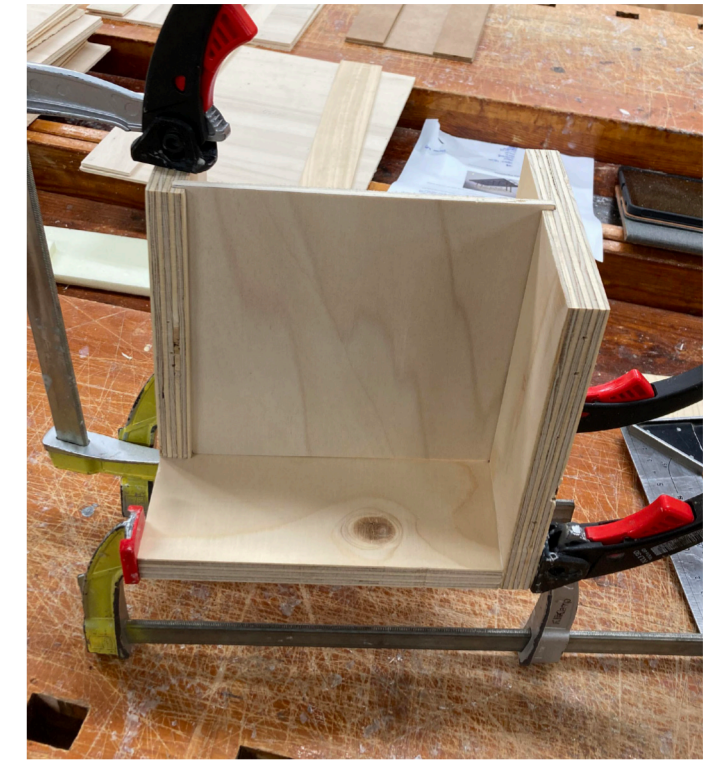
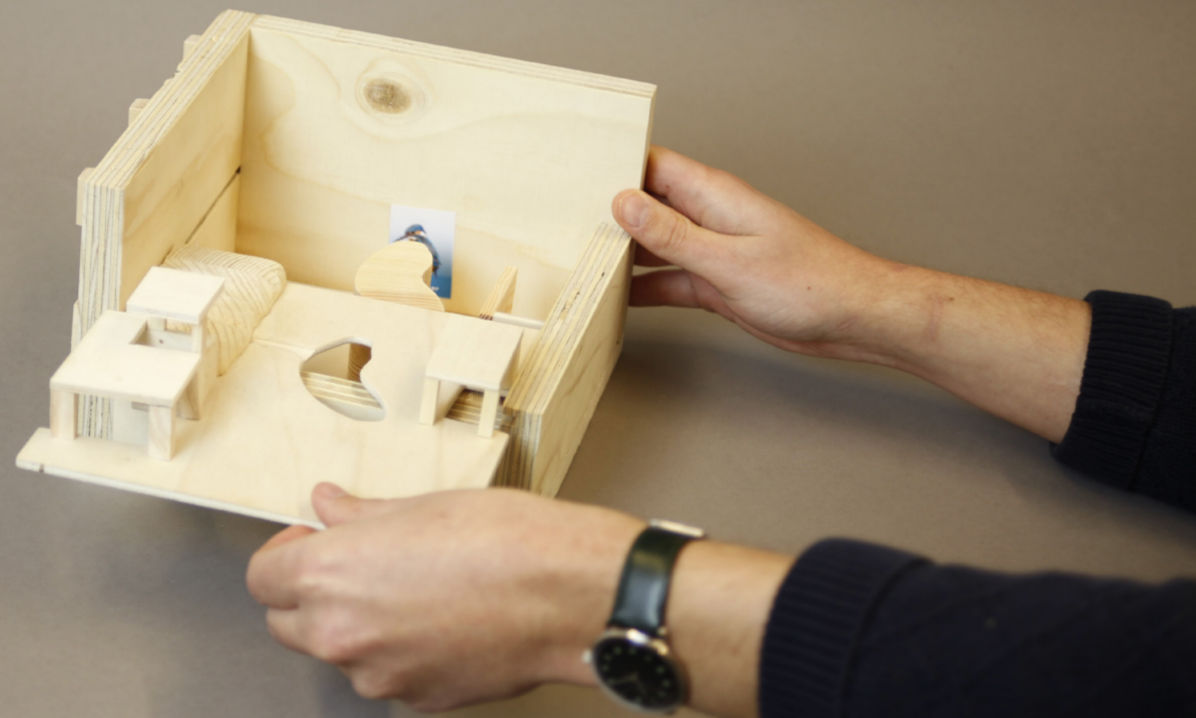
To create a more aesthetically pleasing building, the box and tower are turned 45 degrees and the bridge is given a hourglass-like shape. The corner of the box is also placed outside the roof of the existing building to create a separation of the prototype and the existing building.



At the entrance to the prototype, a sun staircase and a wooden deck are created to establish a clearer spaciousness. This also contributes to show that it is a public building that everyone can take part in.



Spread 6
Photos of the process
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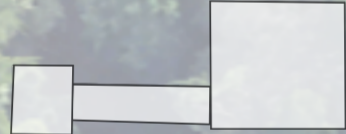
Spread 7
System growth
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2x portrait A3

Different possibilities to develop the prototype

Just the box



Simple connection



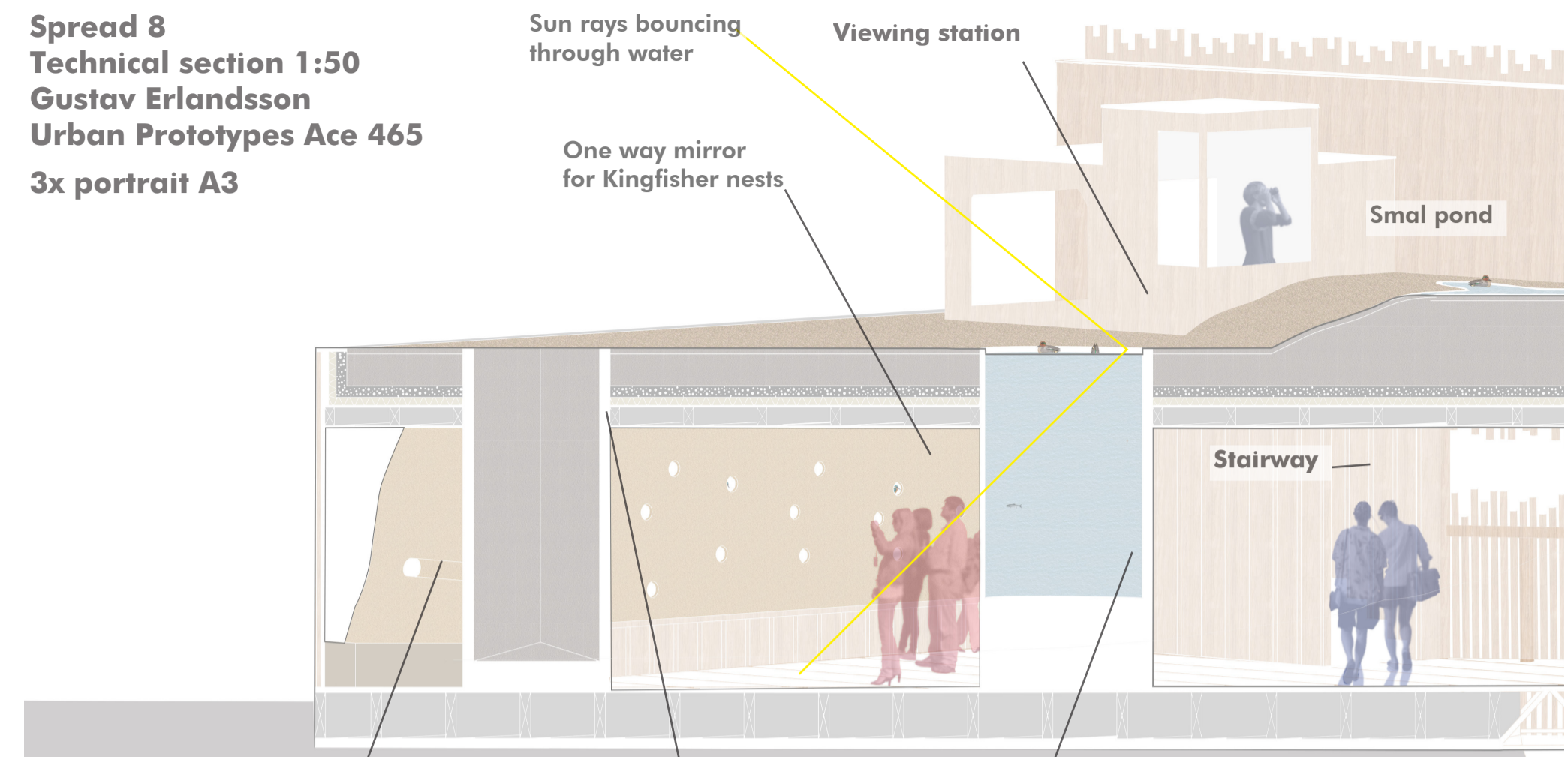
Dynamic adjustment



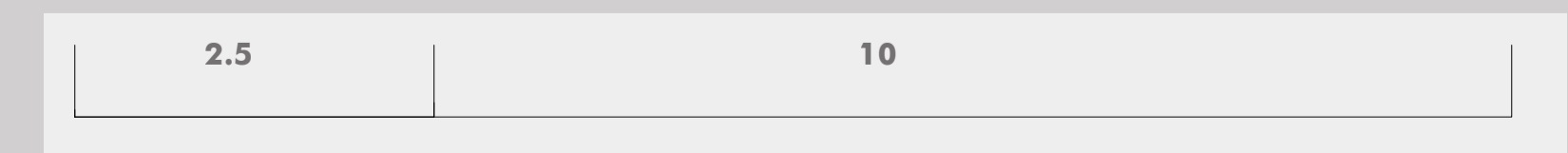
Multiple connection



Spread 8
Technical section 1:50
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3x portrait A3



Kingfisher nest tunnel
Deep earth plot for bigger trees
Deep viewing pond



Framing structure