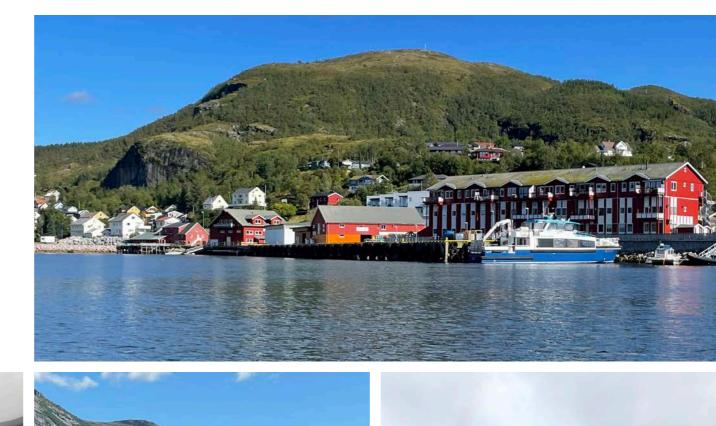
# Re-form

Ørnes Harbour | Community Recreation centre

Fredrik Grindstrand Dikvold



An hour and twenty minutes after boarding the boat in Bodø, the captain announces that we are about to arrive. The boat slows down as it passes Teksmona island, and "Ørnes Two" becomes visible in the horizon. Further into the bay, as you pass the northern tip of Messøya, you can make out the shapes of buildings and "Ørnes One" also becomes visible. Directly parallel to the bow of the boat is an odd-looking building, the captain steers distinctively towards it. After a short while, his intention becomes apparent, on the façade of the building there is a white sign with black capital letters. ØRNES.







Ørnes Harbour | Choosen Building



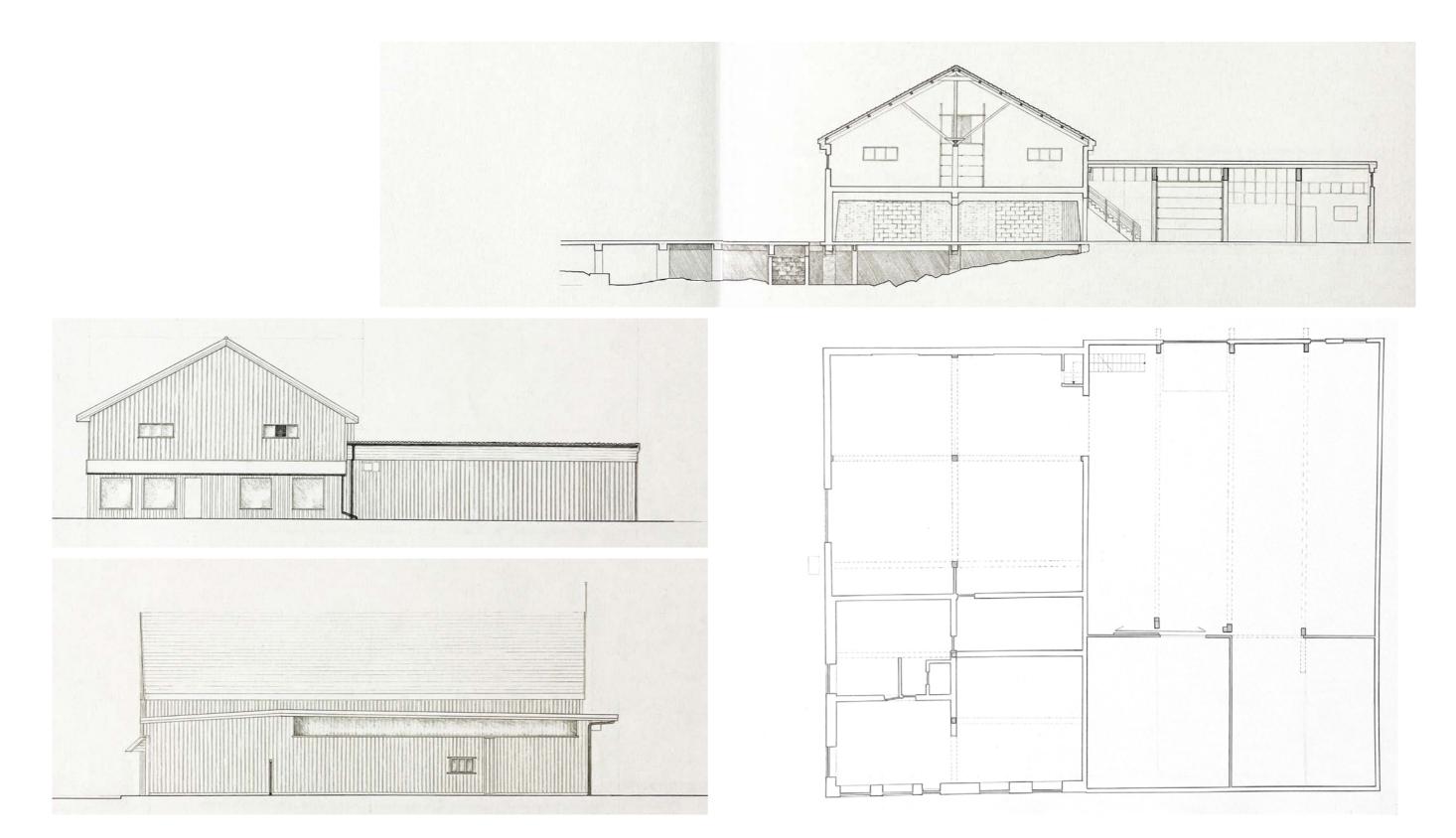




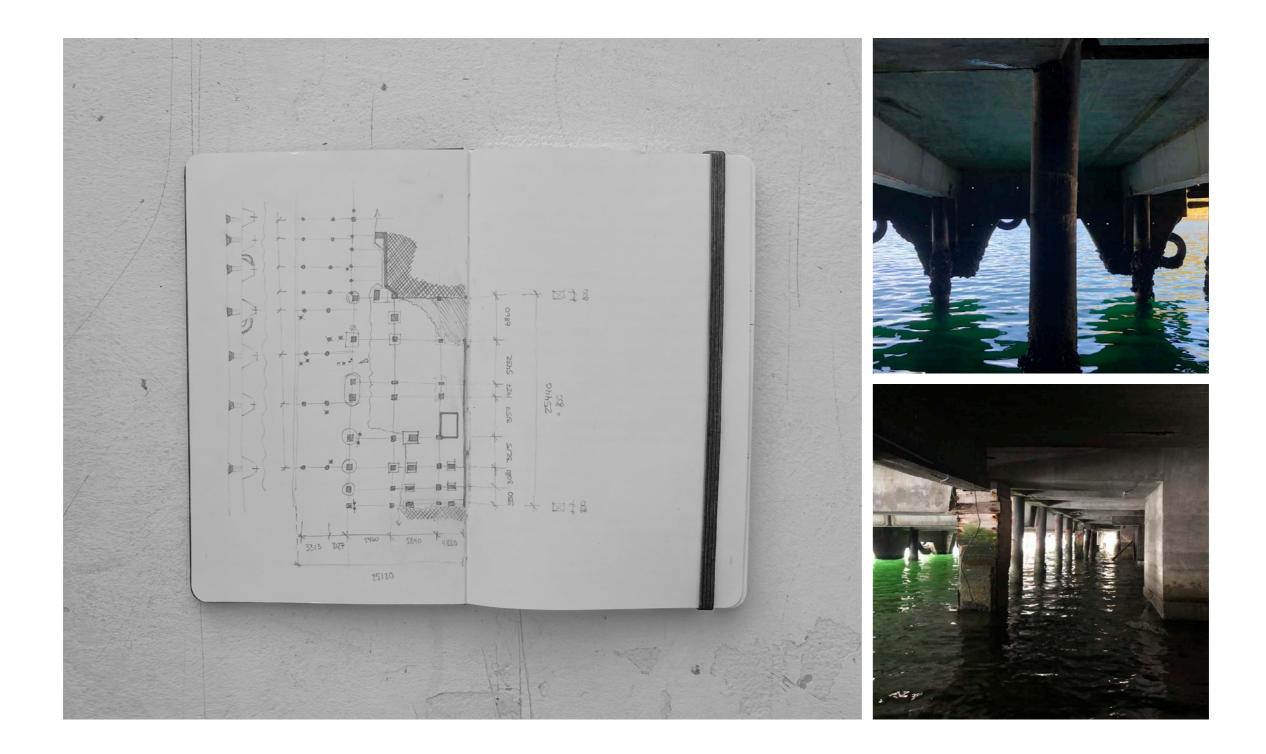


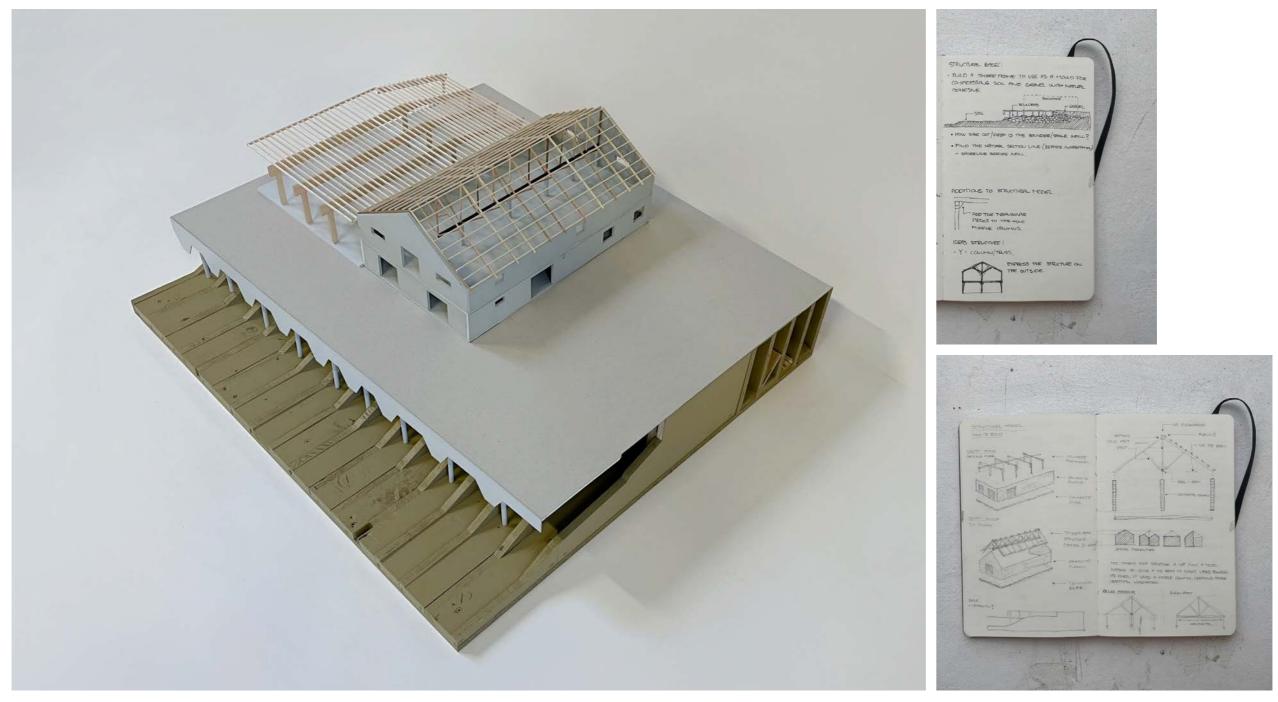
1:250

Site Model | Existing Situation



Survey Drawings | Initial Research

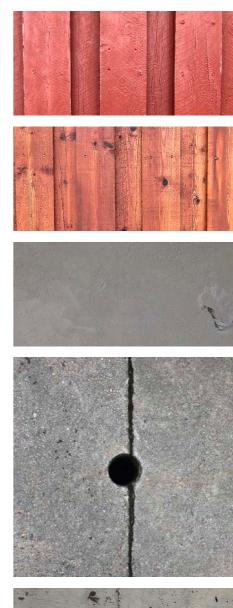


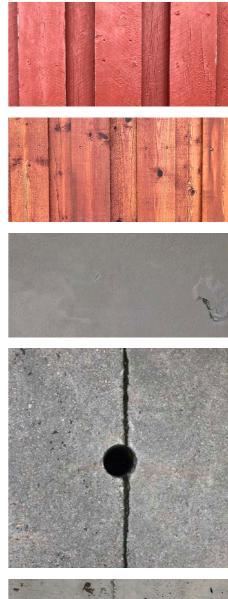


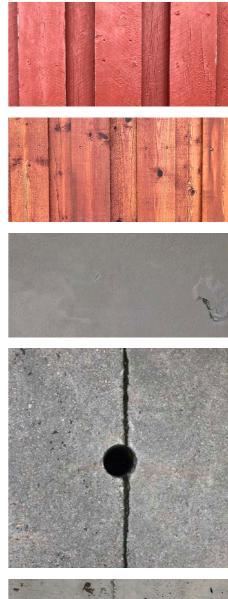
Structural Model | Tectonic Research













Existing Exterior | Materiality





Existing Interior | Three Distinctive Spaces





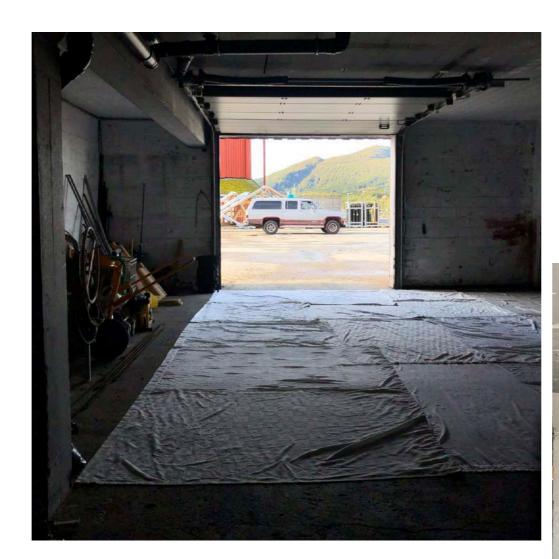


Tectonic Exercise | Connect Surroundings





Tectonic Exercise | Establish New Path





Tectonic Exercise | Structural Grid

towns struggle with a population de- ing to discern reasons for staying in cline. The younger generation look to- Ørnes, and reasons to come back after wards the cities, due to youthful eager- many years away. ness to explore and the opportunities cities can provide. These opportunities I chose to work with Ørnes Harbour, can be career growth, personal devel- because it is the first impression of the opment, greater acceptance of diversi- town if you come by sea. Travelling by ty, and a wider option of recreational boat to Bodø (the nearest city), is the activities. While many remain in their most common way of long distance hometowns, modern societal chang- travel. es have lowered the overall birth-rate substantially. As a result, there are Ørnes Harbour is in a way "the doormore deaths than births. The mu- step" into Ørnes. nicipality wishes to turn the decline around, or at best, delay it.

cused on directly pivoting the popula- is also the only building in direct comtion graph, because the population will munication with the "Hurtigruten", a continue to fall until it reaches a stable tourist ship that have connected rural point, a point related to contemporary places through centuries.

Urbanization. Many rural Norwegian birth-rates. Rather, my question is try-

Arriving Ørnes, it is the first impression of the town, and it can be a positive re-My main research question is not fo- minder of home for those who leave. It

> Hopefully, re-forming this building can act as a seed to revitalize the community, and create a arena for communty driven recreational activites that can improve social belonging.





Connections | Sea

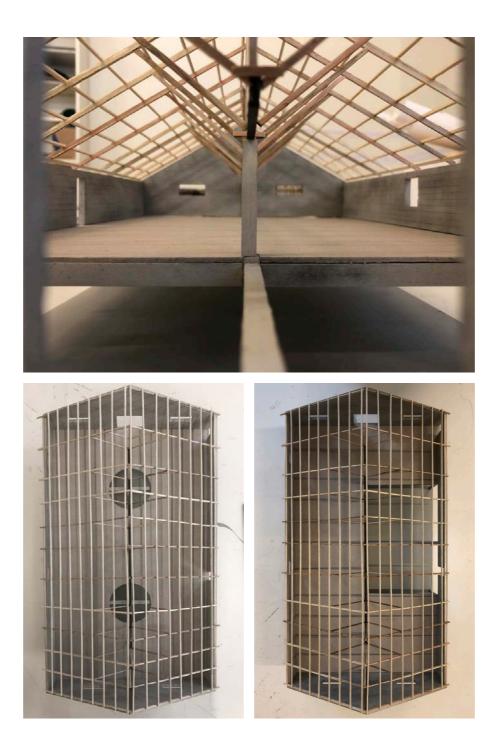
Connections | Land



Possible new connections?

### Focus area

Combined



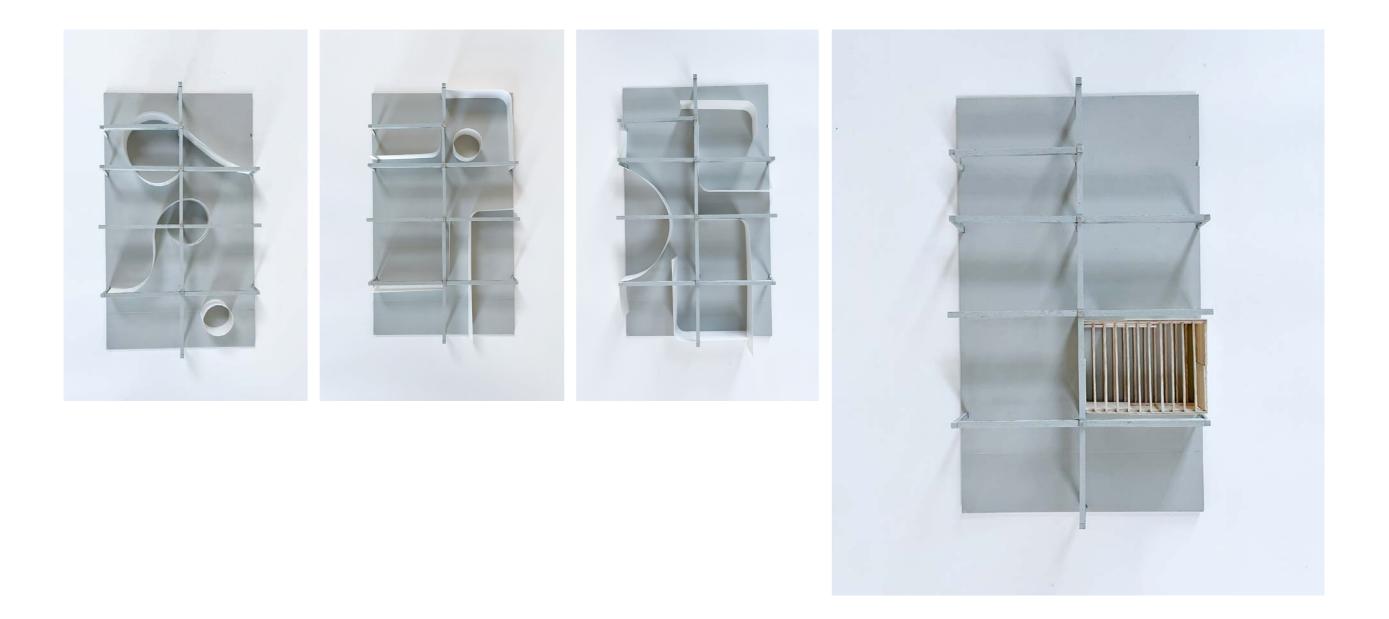
A series of tectonic incisions into the first floor. In the process, new spatial volumes are created throughout the building.

Design Process | Intitial Incisions





Design Process | Explorative Models



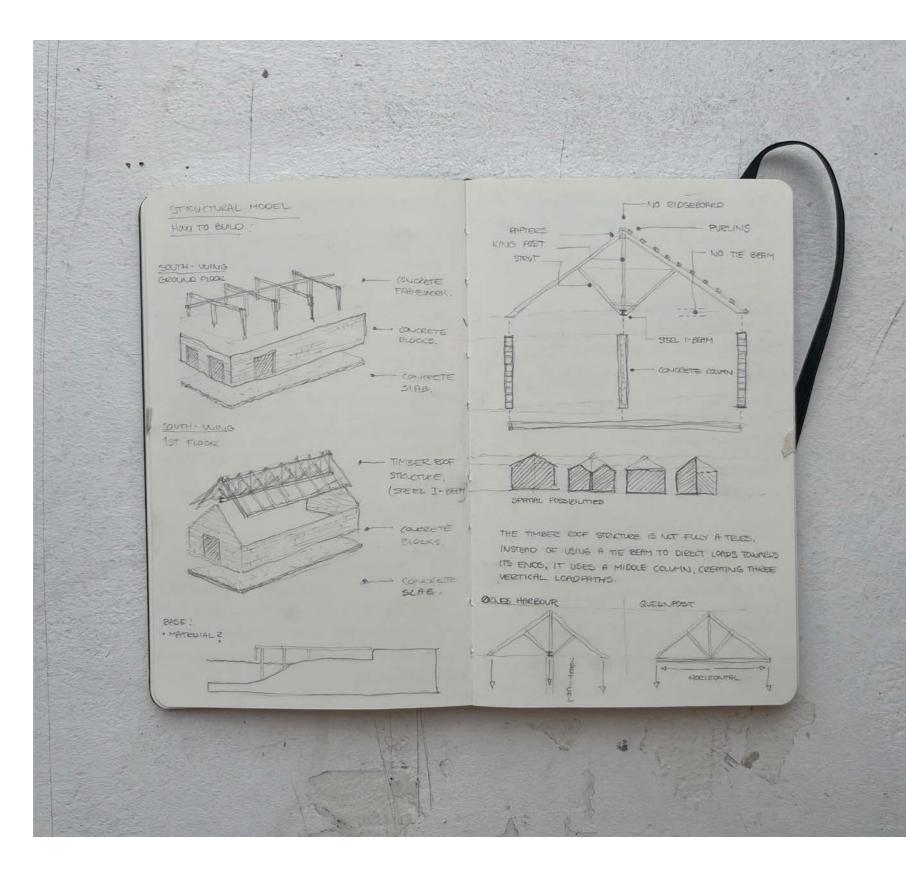
Design Process | Explorative Models

Tectonic Incisions. The selection of photographs is showing the most sucsessful incisions. (right) Removing a section off the northern roof at the treshold where the structures meet. The cut ends at the glulam structural beam. (middle) Cutting out a rectangle out of the first floor, and tearing down the wall towards the northern structure, in line with the cut-out floor slab in the first floor. (left) Establish a new source of natural light into the southern building roof, guided by the rafters and purlins.

Establish a set of rules. Incisions are carefully executed within the confines of the established grid or system set by the original structure. For example, the concrete columns forms a grid of multiple rectangles, and so the incisions should be made as a rectangle with columns at every corner. The system of the timber roof structure allows for several possible incisions and additions.







A descision is made to strictly follow the established volumes outlined by the roof-structure. By confirming to this method, a series of volumes can be created within the building, without appearing more prominant than the roof. Light as a material. Informed by the added zones, a concept for conditioned/ unconditioned spaces and the intensity of light emerges.



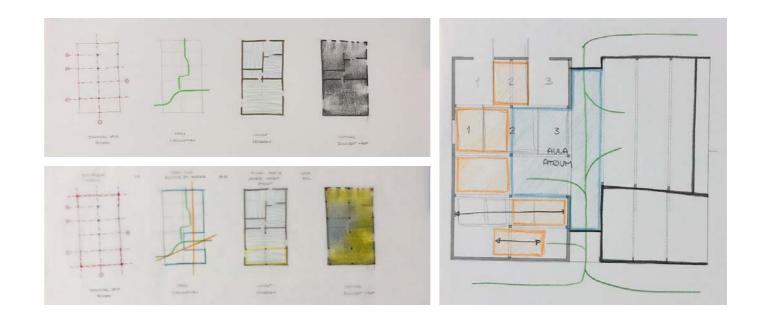
( DAGENHS:	TEXTONIC RESIGNMENT PAK 2
· SERTIAL QUELTIED, TECTORIC PERSPECTUE	. FLOOR AREAS - ZONES BY FUNCTION
<ul> <li>ואודשבעות באווקס לסעותעס'דס דאב פבס סי לאי זרבניבונים.</li> <li>ספואע סער דאב סודבעבועד שאווייבה אה ג באפאר.</li> <li>ואודשבעות באווייבה אה ג באפארים.</li> </ul>	.TAC VELVICES, ESOP LIGHTS
SETS. 5-6 PROGRAMS IN ONE.	
EDUCATION CENTRE MARKEDS) STUDIO / ATELIER DAGE STUDIO TOURIST AFECHMEN CENTRE CIVERA (OHMON KITCHEN CONCEPT HARL	THE DATE AND ADD HER LINES
SHULA VORKSHOPS (V.OCO/1998)) PULS/ BAIK VOUTH SOCHL SPACE DALERY CHAINS ROOHS/ LIBRICY	TEMPORANE STRUCTURES IN THE FIRST FORE     OPENNUSS TOUCHEDS AMARCHIG VOT & THE SA     AT 457 & 2000 PLOSE     VICES
STTE HODEL:   HIDTEDH W/ MAGNUS: · DUE '4TH OCT.   HIDTEDH W/ MAGNUS: · PERPERTENT - WHET - WHEE - WHY - HOW.	THE CONSECTLY BETWEEN ALSO AND 420, AND THE FUNDE ADED, NAW THEN ARE SET WITCHLY THE BOATS.
ERGST TRADITION OF THE FREDERT, HUTCHER, HUTCHER, AND THE DIFFERENCE OF THE CONTRACT WING CONTRACT WING CONTRACT WING	
	and all the

Design Process | Natural Light

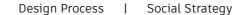
Social Strategy. To change Ørnes Harbour from its current secluded social position into a positive benefactor for the local community. The positive change will arise through compelling spaces that can accommodate multiple programs.

The programs will cover a range of intensities, such as high intensity sports and concerts, to low intensity reading and socializing spaces such as a community kitchen with long tables. The aim is to create a vibrant building that can appeal to the whole community, across all ages, social standing and interests.

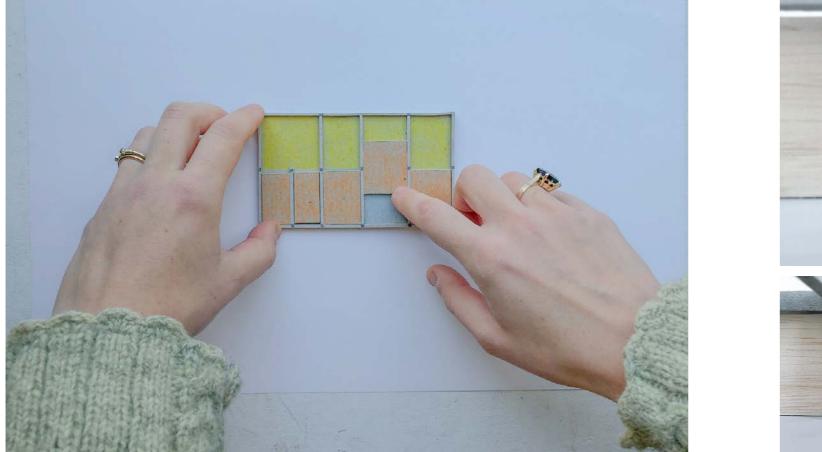
A part of the strategy is to create easily modifiable spaces, through the aid of curtains and movable rooms that aren't locked in place.















	- And a state of the state of t
NA CO	









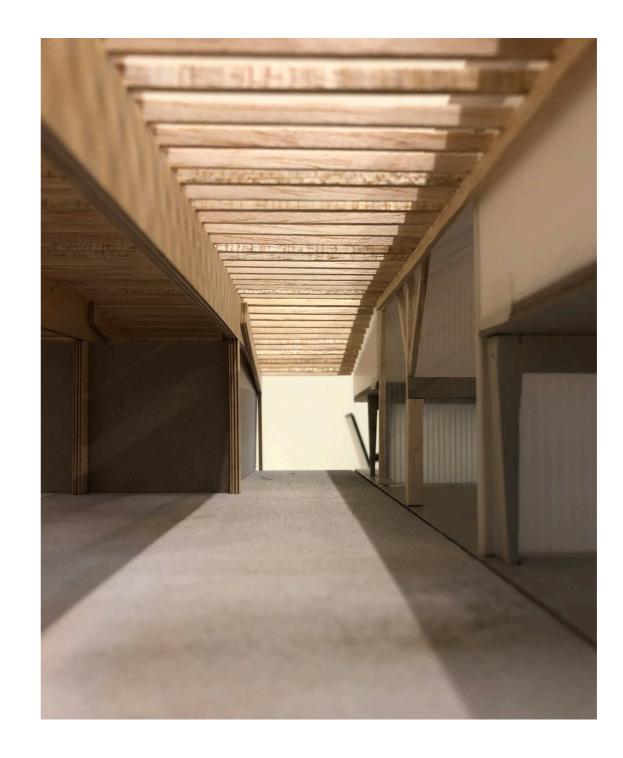
## Design Process | Explorative Models



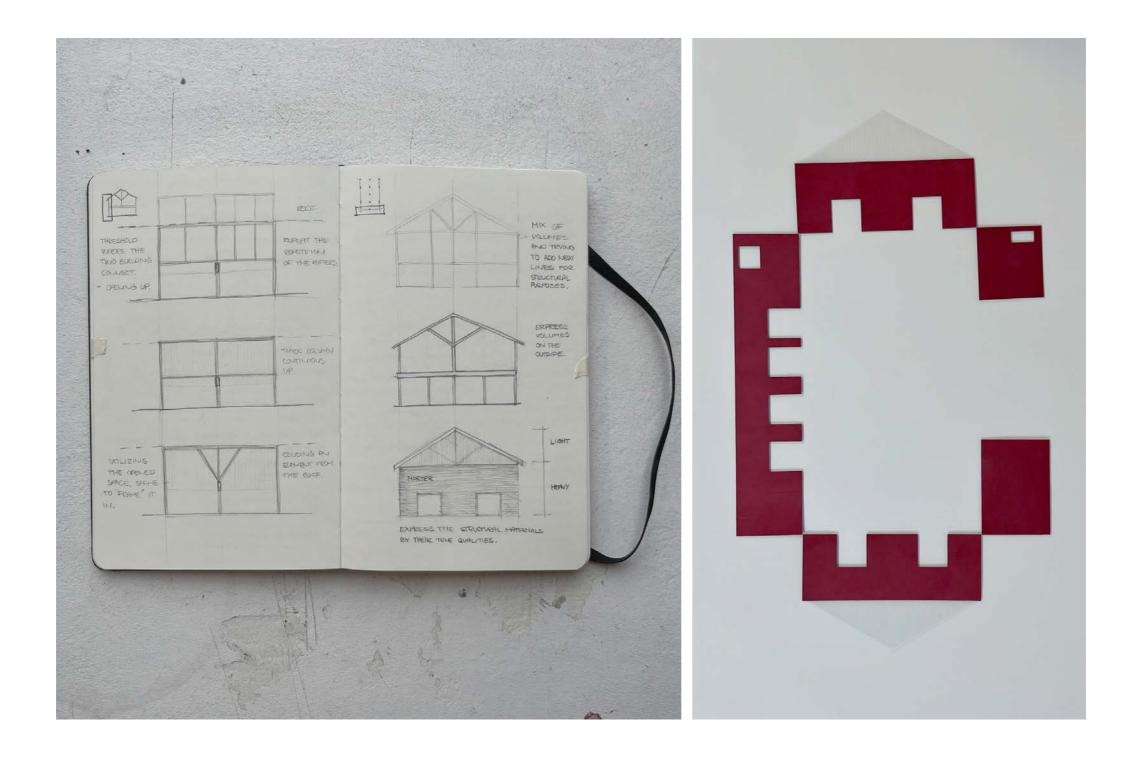




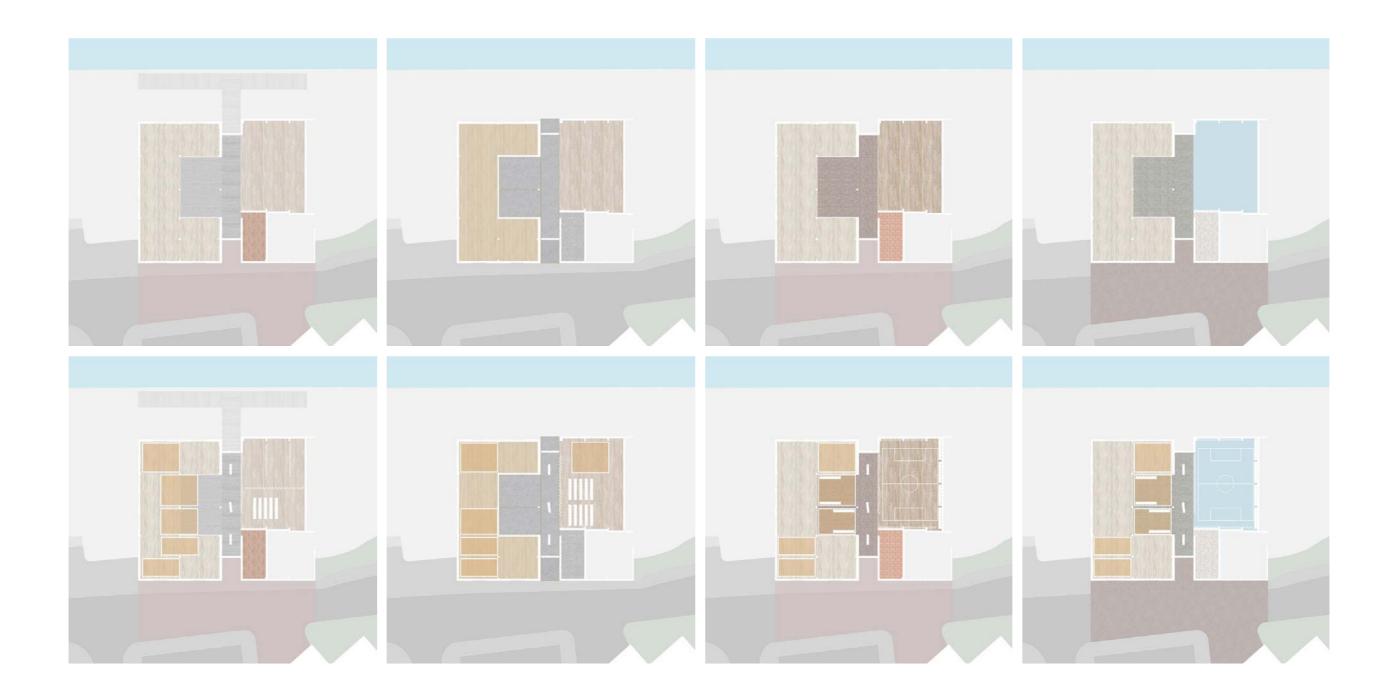
Threshold. The central column and ceil- assume the purpose of the wall. The moing is the threshold of the two buildings. ment where the existing roof and the The idea is to create an atrium within inserted structure connect. The insertthe southern building. The atrium is ed atrium structure's direct or indirect confined to the grid established by the relationship with the roof. The walls of ground floor and the triangular shape the atrium are wedged on the inside of in the roof structure. The atrium is set the cut-out rectangle on the first floor, at the northern boundary of the south- this gives the new structure borrowed riern building, opening into the northern gidity. A direct connection with the roof building, consequently removing the could be to continue the wall to the point load-bearing wall. Both the southern of contact with the roof structure, leavpitched – and northern roof are resting ing no open gap. An indirect connection on the wall. Therefore, the central col-umn is important as it will have to size the difference of new and old.



Threshold | Two Structures

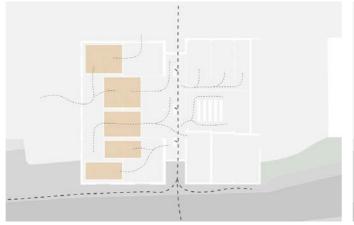






Design Process | Explorative Diagrams







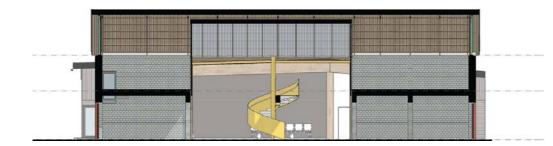
Allow the program to adapt with the rythm of activities

Design Process | Connected Spaces













Design Process | Implementing ideas

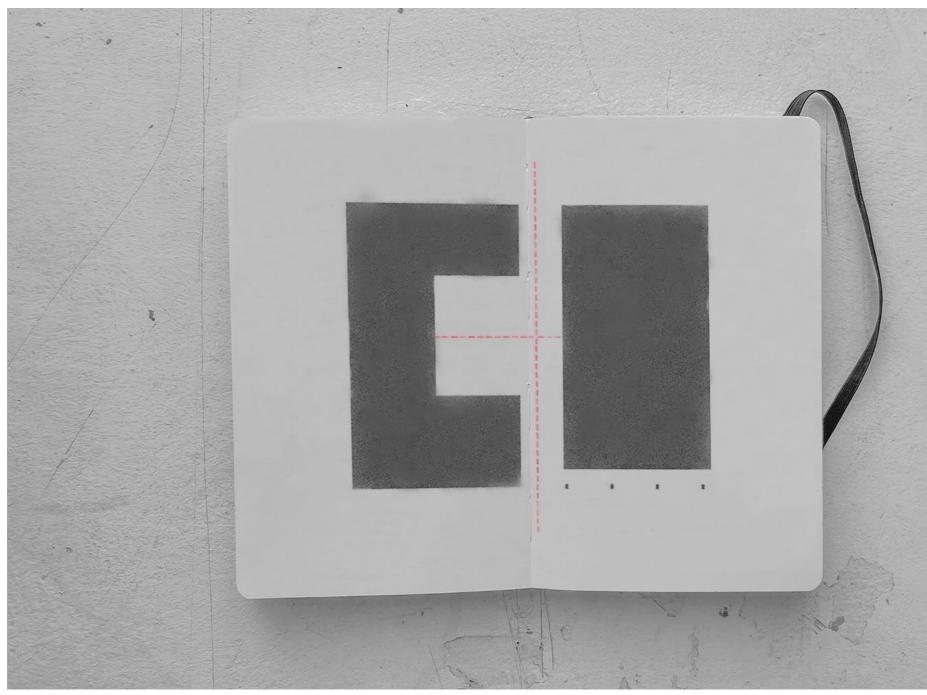
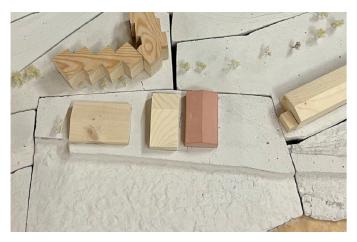


Diagram | Primary Intervention

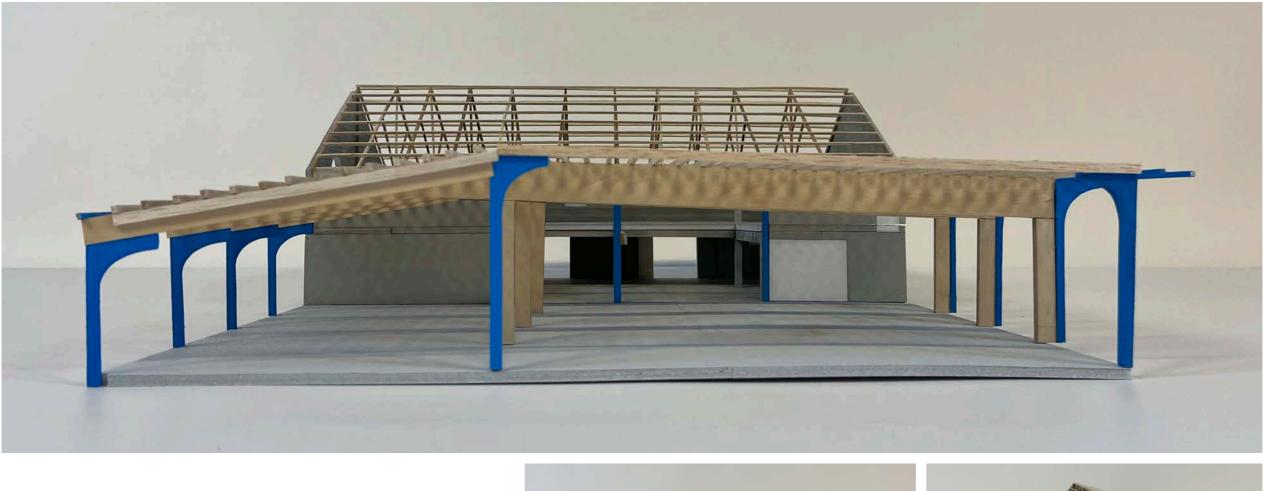












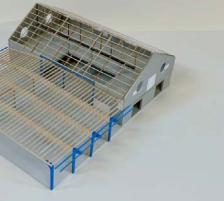


**White** Existing openings

Blue New structural components



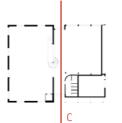
Tectonic Model | Proposed structure





Connection | Proposed Main Entrance





#### Ørnes Harbour Activity Center

Section C

 $\bigcirc$ 

A2 | 1:100

湯

Afternoon (left) Midday (centre)

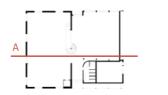
Strategy | Natural light





Interior Situation | Path Upstairs



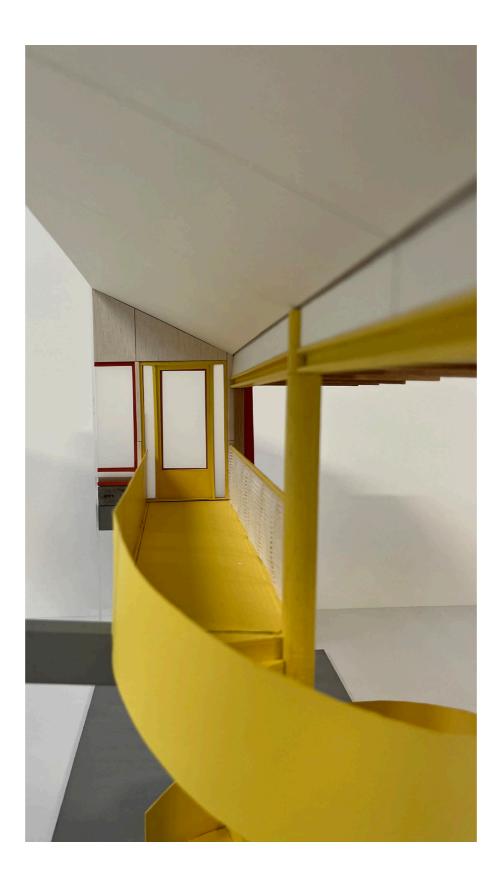


# Ørnes Harbour Activity Center

Section A

 $\bigcirc$ 

A2 I 1:100





**1:20.** The main protagonist of the project is the central spiral staircase. Because of the central placement, it remains visible throughout the building. Colour theory, implemented by a vibrant yellow is meant to enhance the energy in the room, encouraging users to traverse the steps, hence connecting the spaces and users.

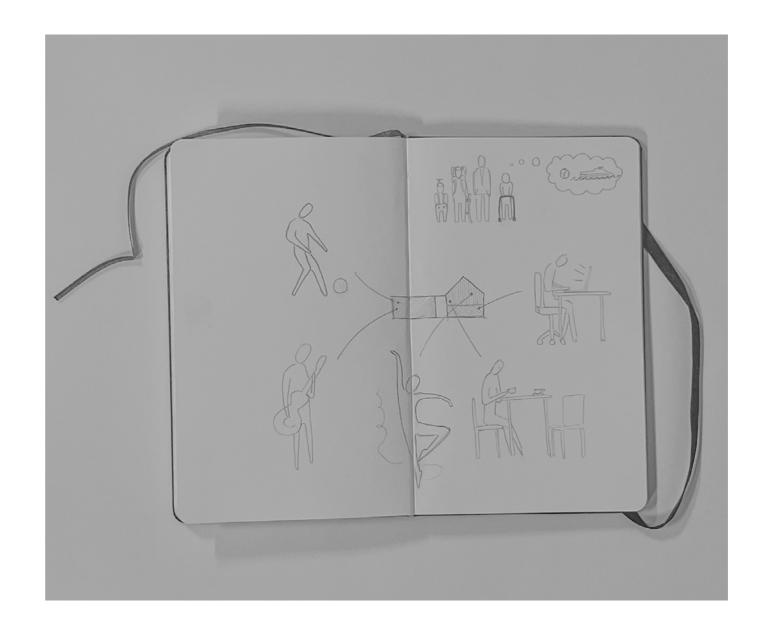
Fragment Model | Proposed vertical circulation

Strategy to counter Urbanization. The main strategy is to create an arena for everyone to enjoy with a future goal that the interaction between groups of different ages, interests and social standing can happen in one building. Knitting the society further together.

Ørnes and the surrounding towns have many recreational activies, but they are far a part, and when they take place, they are often specialized for certain age groups.

The changeble floor plan of the building will allow for a diverse selection of activites to hapen all at once, creating the possibility for an entire family to spend their recreational hours there.

The activites are not limited to the ones that are shown as examples, rather the established layout aims to incourage wide use.

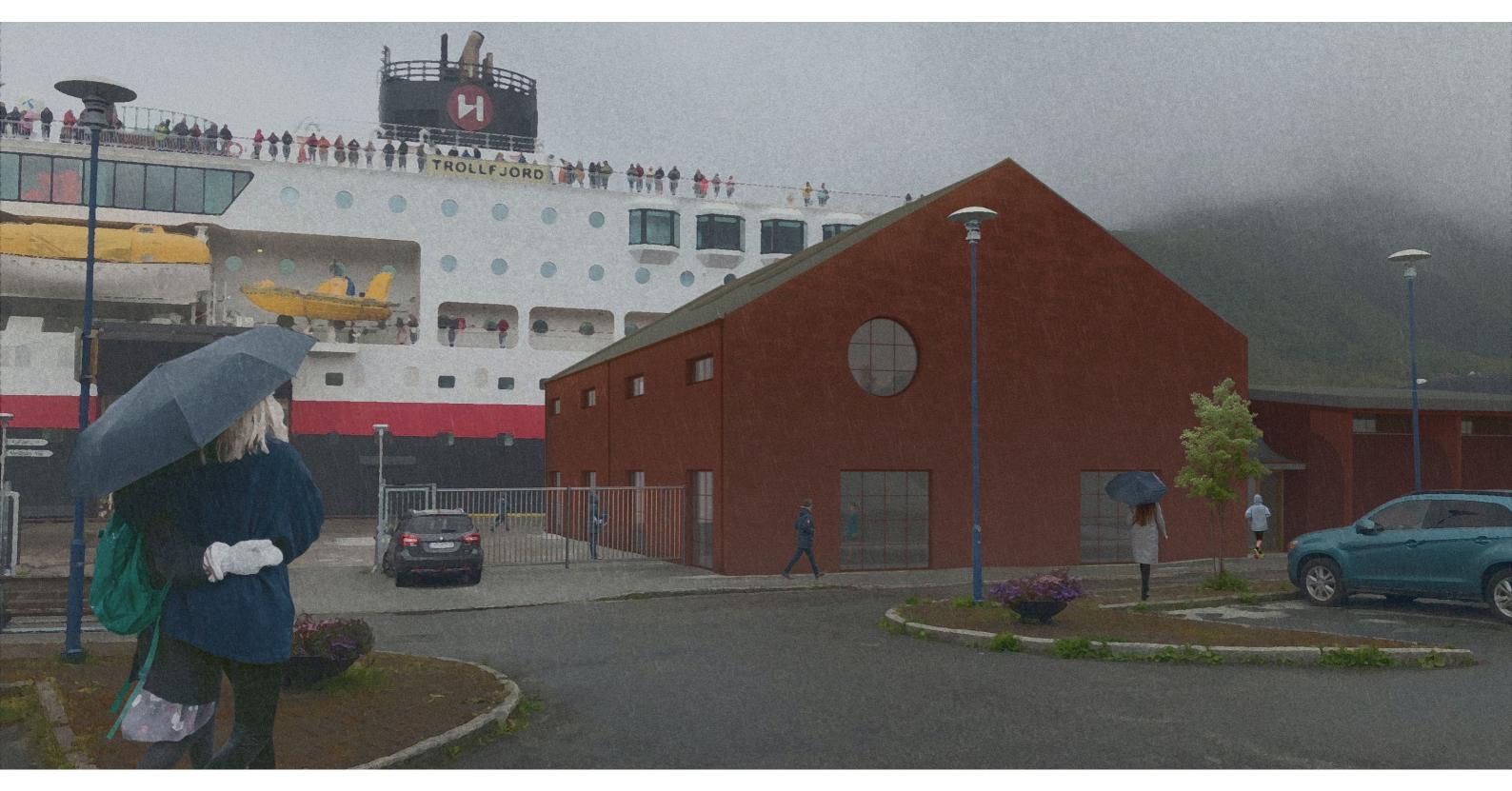


Strategy | Recreational centre

Waiting room. The daily arrivals and departures of Hurtigbåten can contribute to exposure of the other activites within the building.



Interior Situation | Arrivals, Interactions, Departures



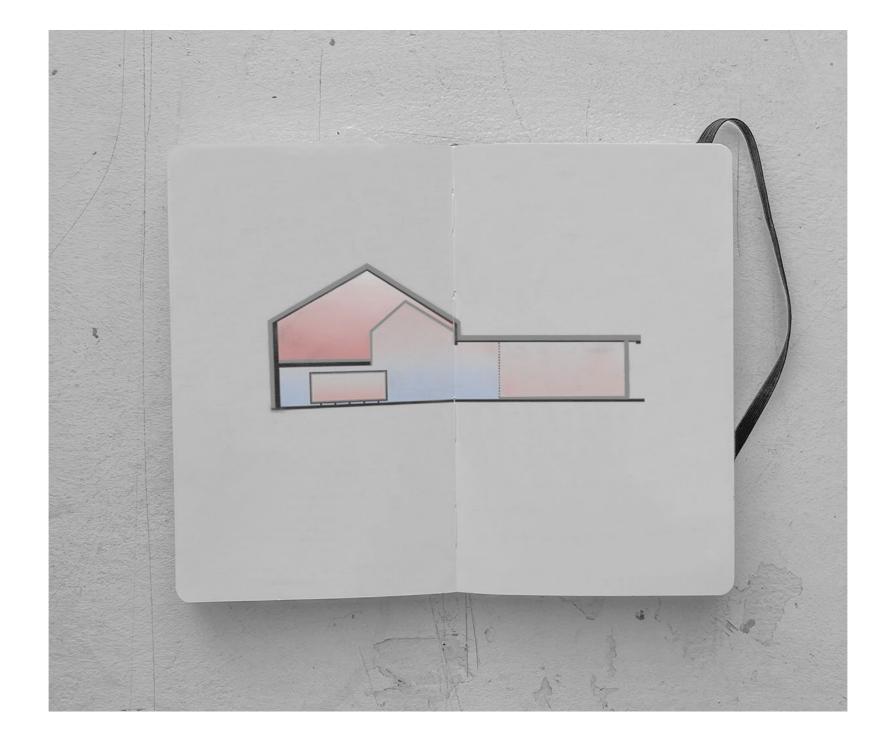
Exterior Situation | Hurtigruten arrives

Concert and Sports Hall (right): Mechanically heated, obstructed by curtain

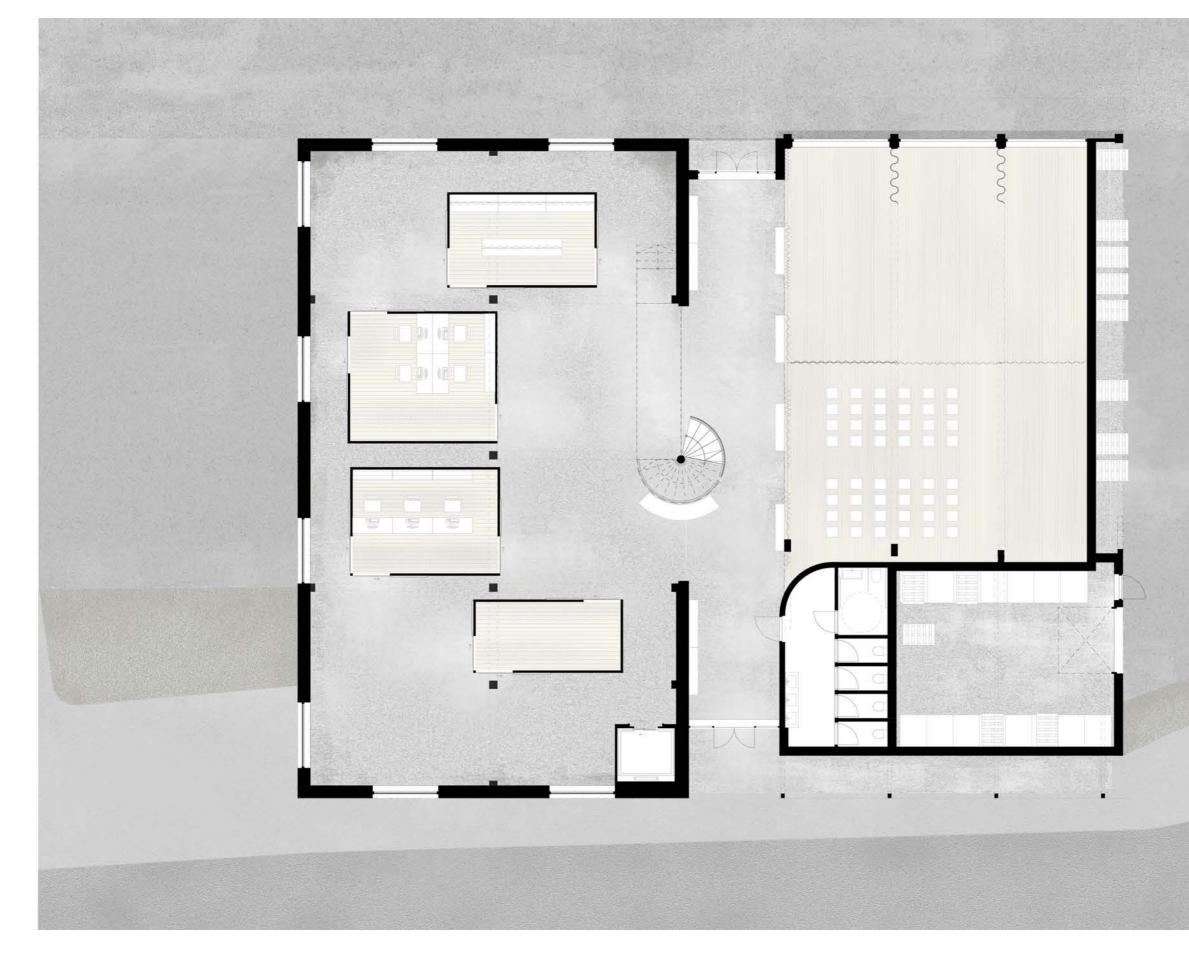
Centre Atrium (middle): Non-Insulated floor - mechanically heated when necesarry.

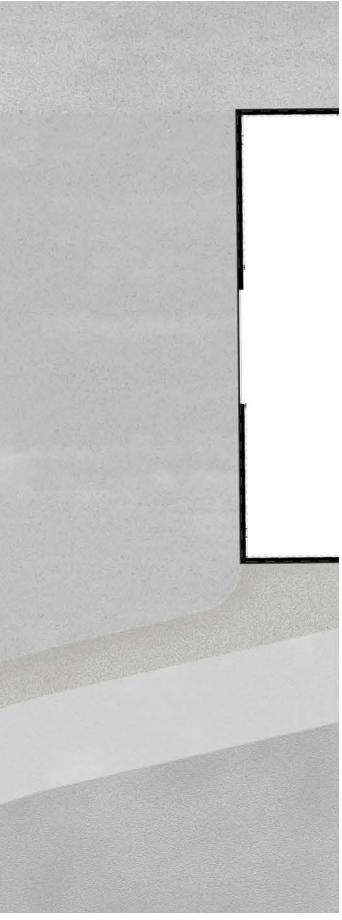
Multiple Use boxes: Mechanically heated, CLT structure.

Studio Hall (upstairs) Fully Insulated and mechanically heated.



Climate Strategy | Proposed zones

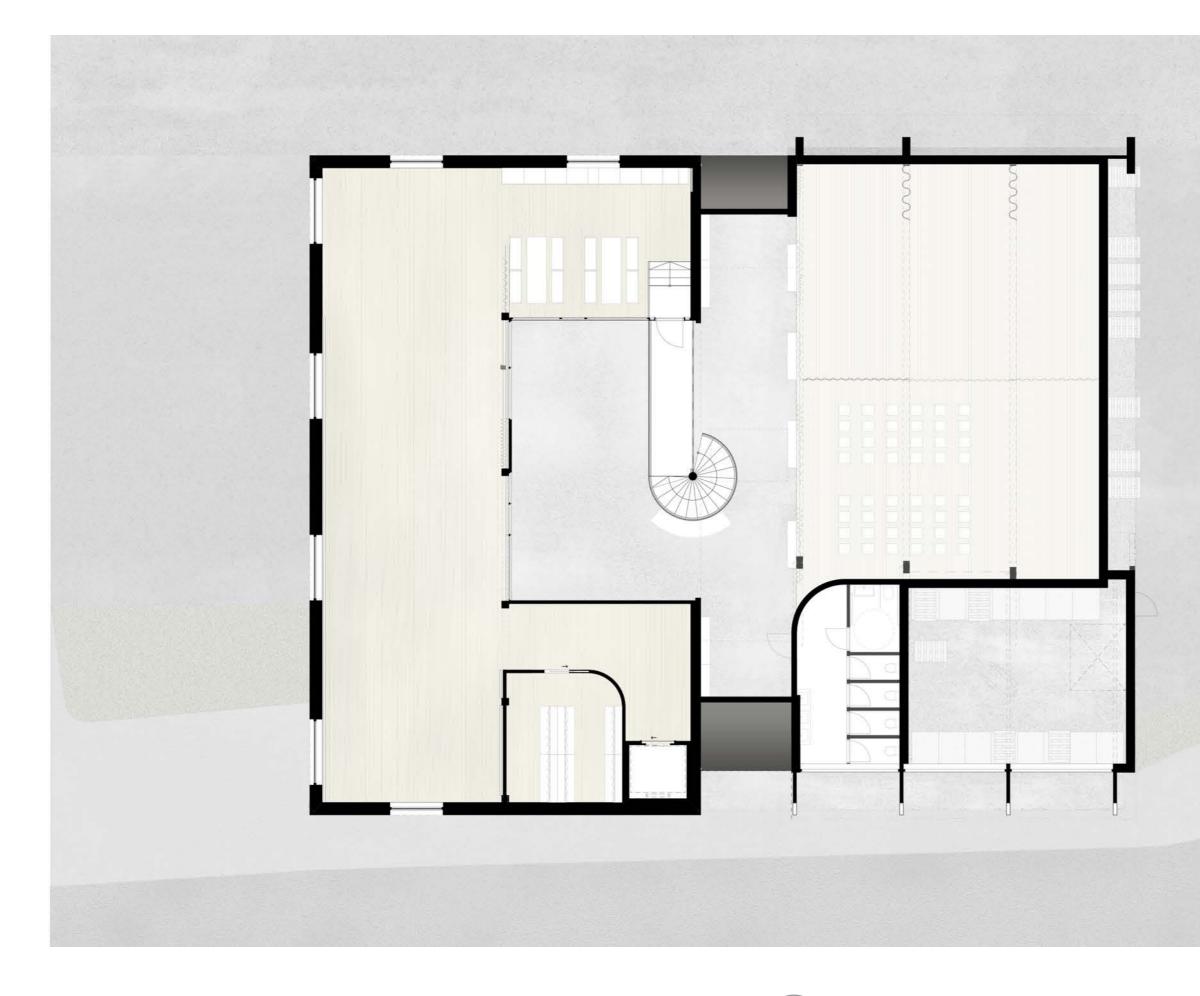


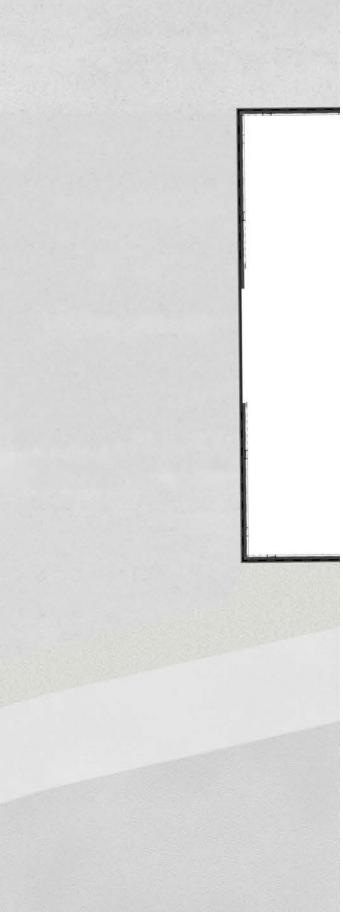


## Ørnes Harbour Activity Center

Ground floor plan

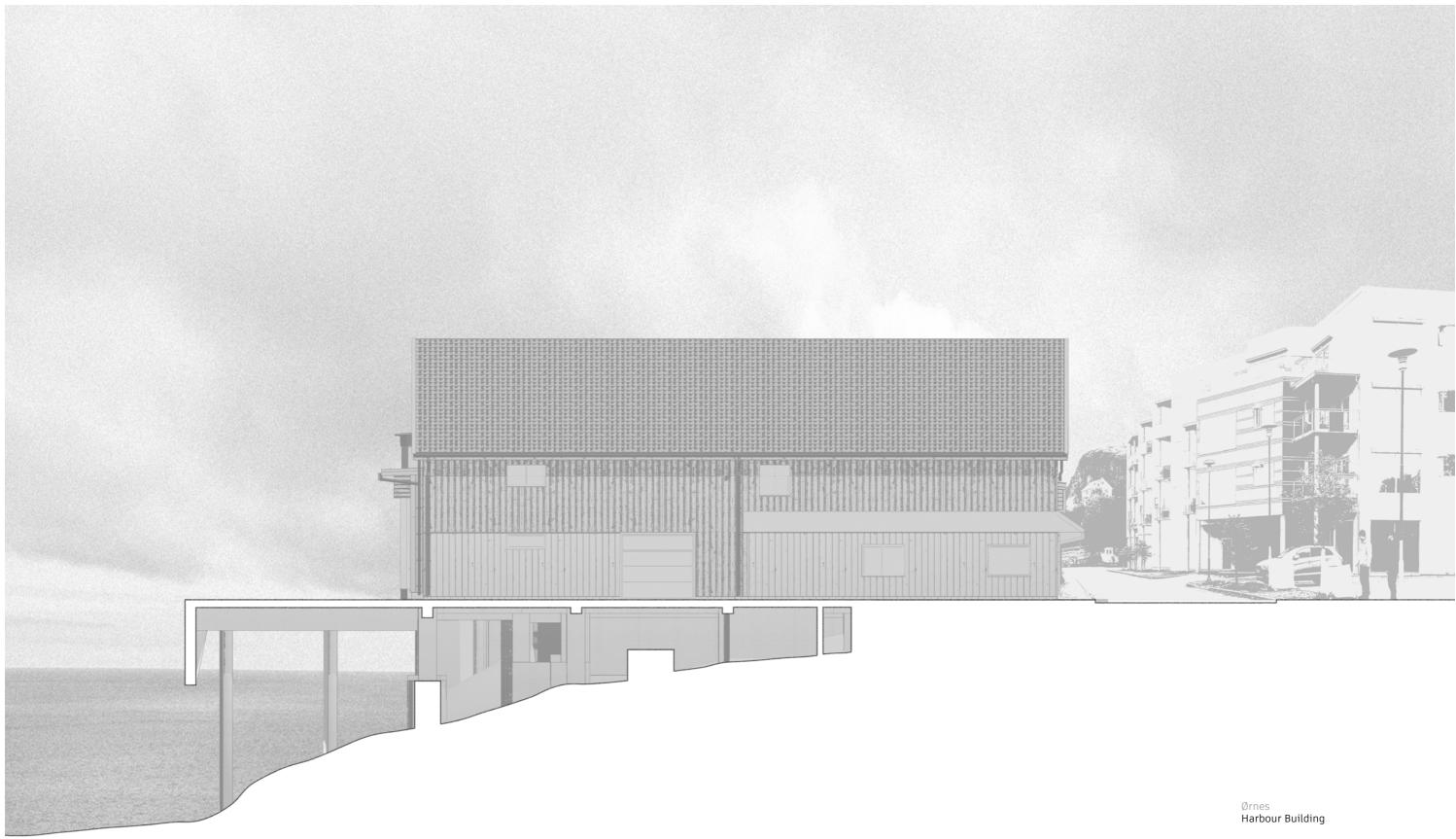
A2 | 1:100





## Ørnes Harbour Activity Center

First floor plan A2 | 1:100



South Elevation

1:100 A2 I

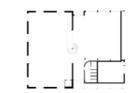


A2 1:100

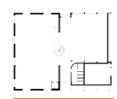




A2 | 1:100





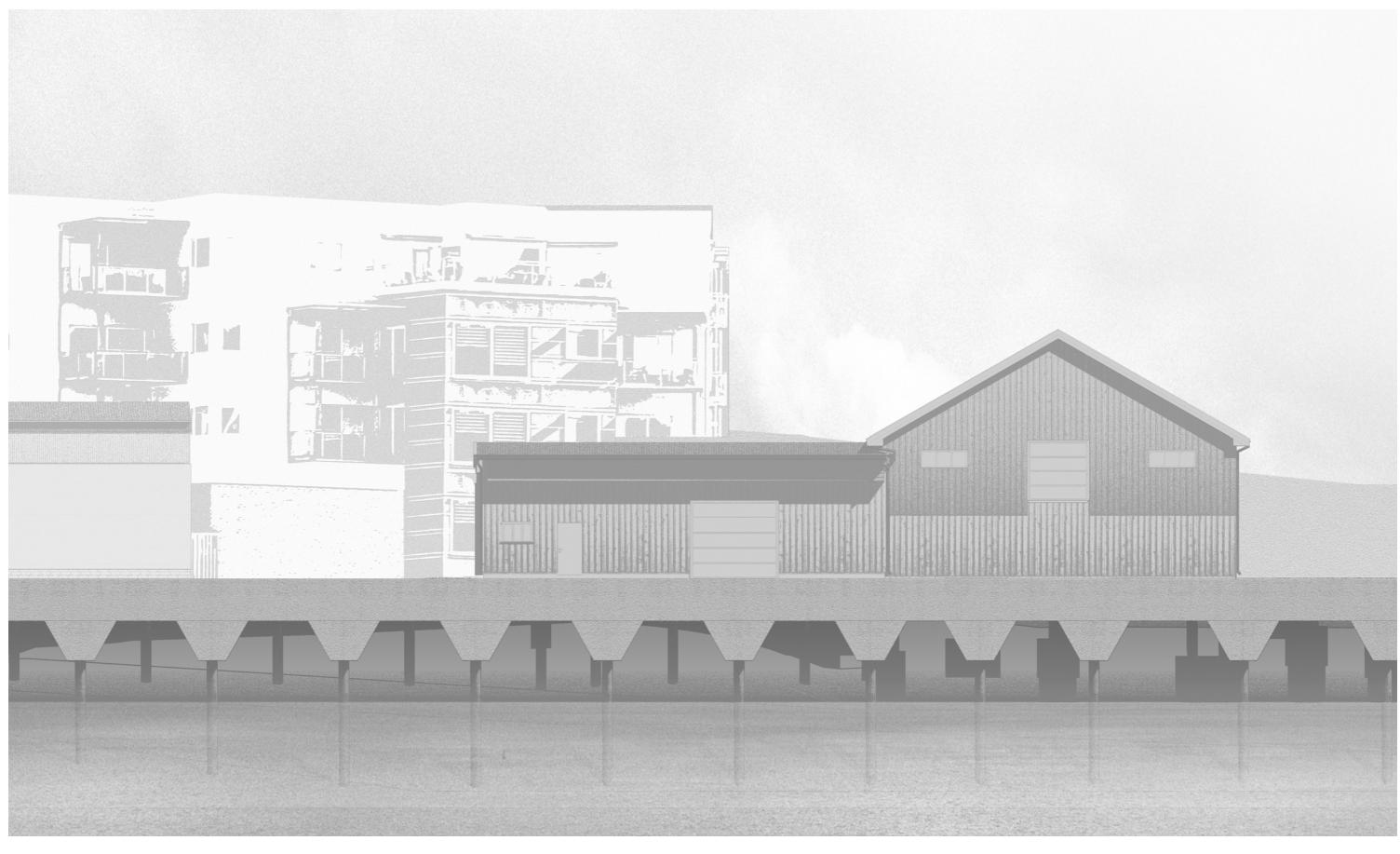




# Ørnes Harbour Activity Center

East Elevation

A2 | 1:100



## Ørnes Harbour Building

West Elevation A2 | 1:100

