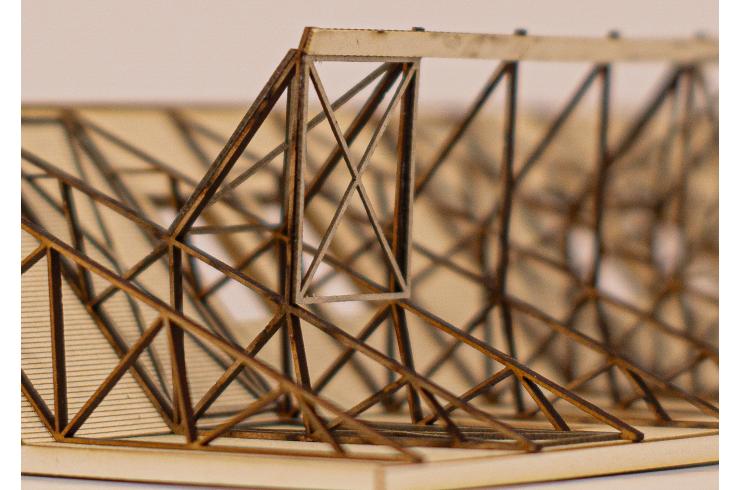
Preserving the intangible Traditional boat-building craft in Lista



Diploma autumn 2023 The Oslo school of Architecture and Design

Ahmad Mikael Spinnangr Al-Shamma

Supervisors

Lone Sjøli Rolf Gerstlauer Wenkai Xu

Binder II

TABLE OF CONTENTS

Organization of the binder

CHAPTER I Existing site conditions

CHAPTER II Site visit to Brekneholmen

CHAPTER III a visit to Lista costal center

CHAPTER IV What are boats and how to build one

CHAPTER V a visit to Hardanger Fartøyvernsenter

> Appendix I: Exploring truss systems Appendix II: Historical photos of boat

Acknowledgments References

Diploma autumn 2023 The Oslo school of Architecture and Design

Ahmad Mikael Spinnangr Al-Shamma

Supervisors

Lone Sjøli Rolf Gerstlauer Wenkai Xu

Binder II

	29
	39
	49
	63
ıt workshops	75 83
	86 87

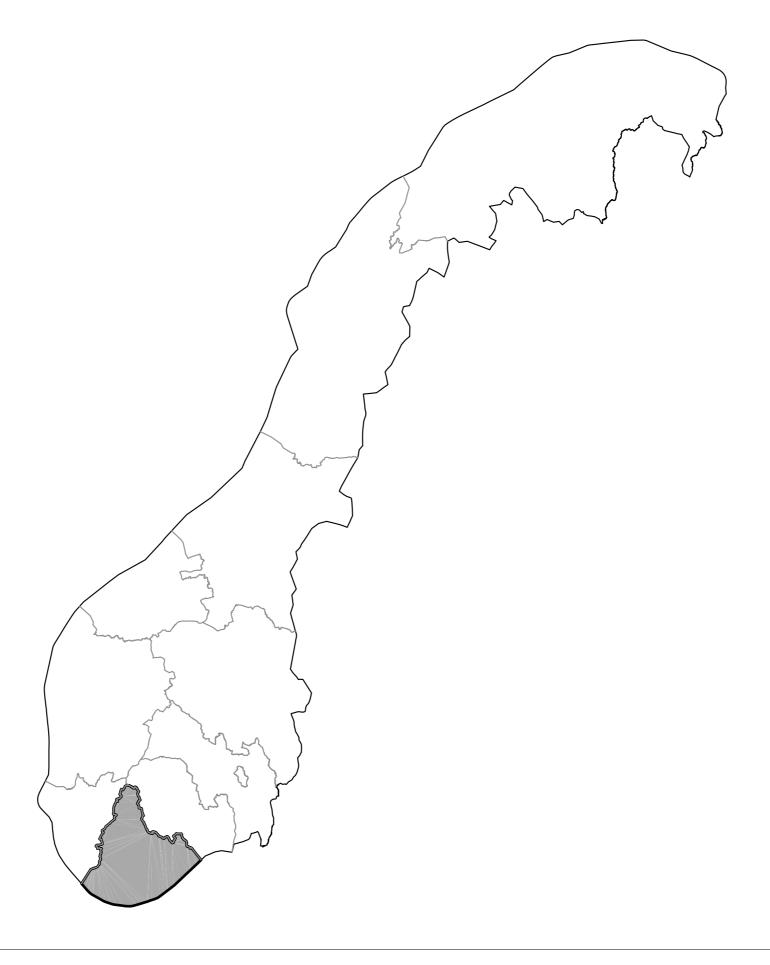
7

Organization of the binder

This is binder 2 of the diploma. It contains the research work and field work that was conducted for the diploma.

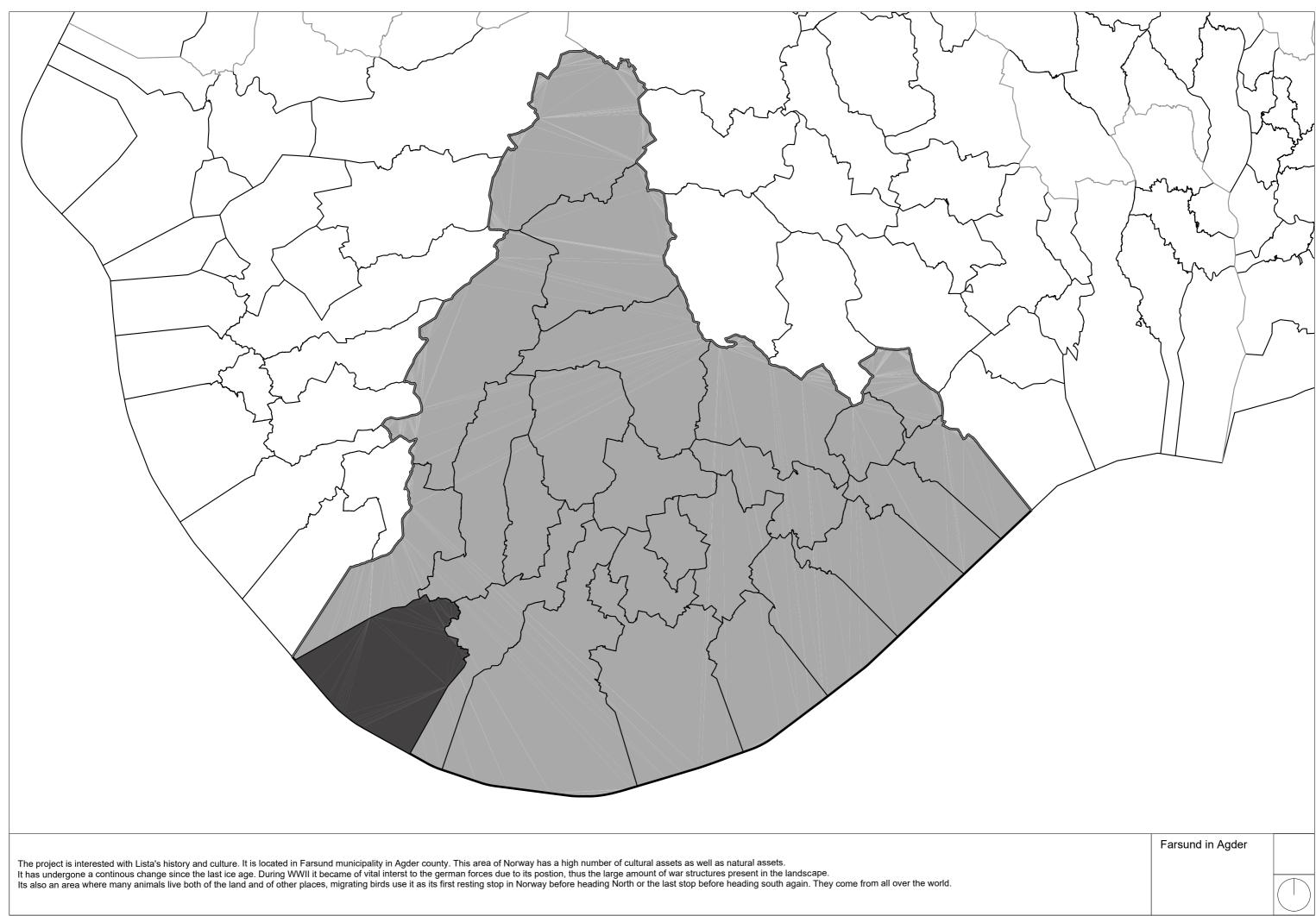
CHAPTER I

Existing site conditions

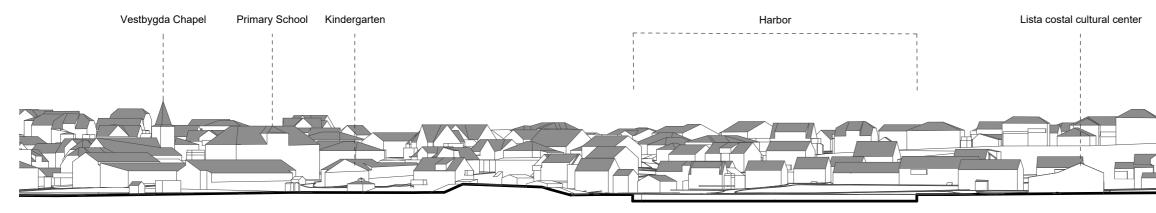


The project is interested with Lista's history and culture. It is located in Farsund municipality in Agder county. This area of Norway has a high number of cultural assets as well as natural assets. It has undergone a continous change since the last ice age. During WWII it became of vital interst to the german forces due to its postion, thus the large amount of war structures present in the landscape. Its also an area where many animals live both of the land and of other places, migrating birds use it as its first resting stop in Norway before heading North or the last stop before heading south again. They come from all over the world.

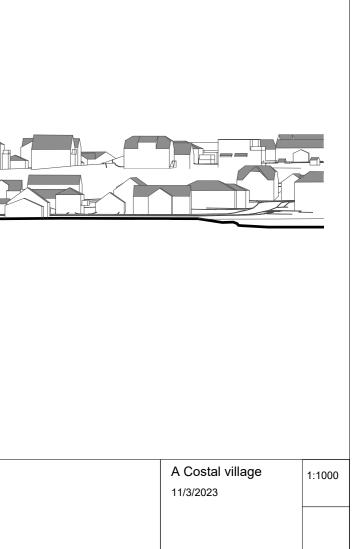
Norways Counties	

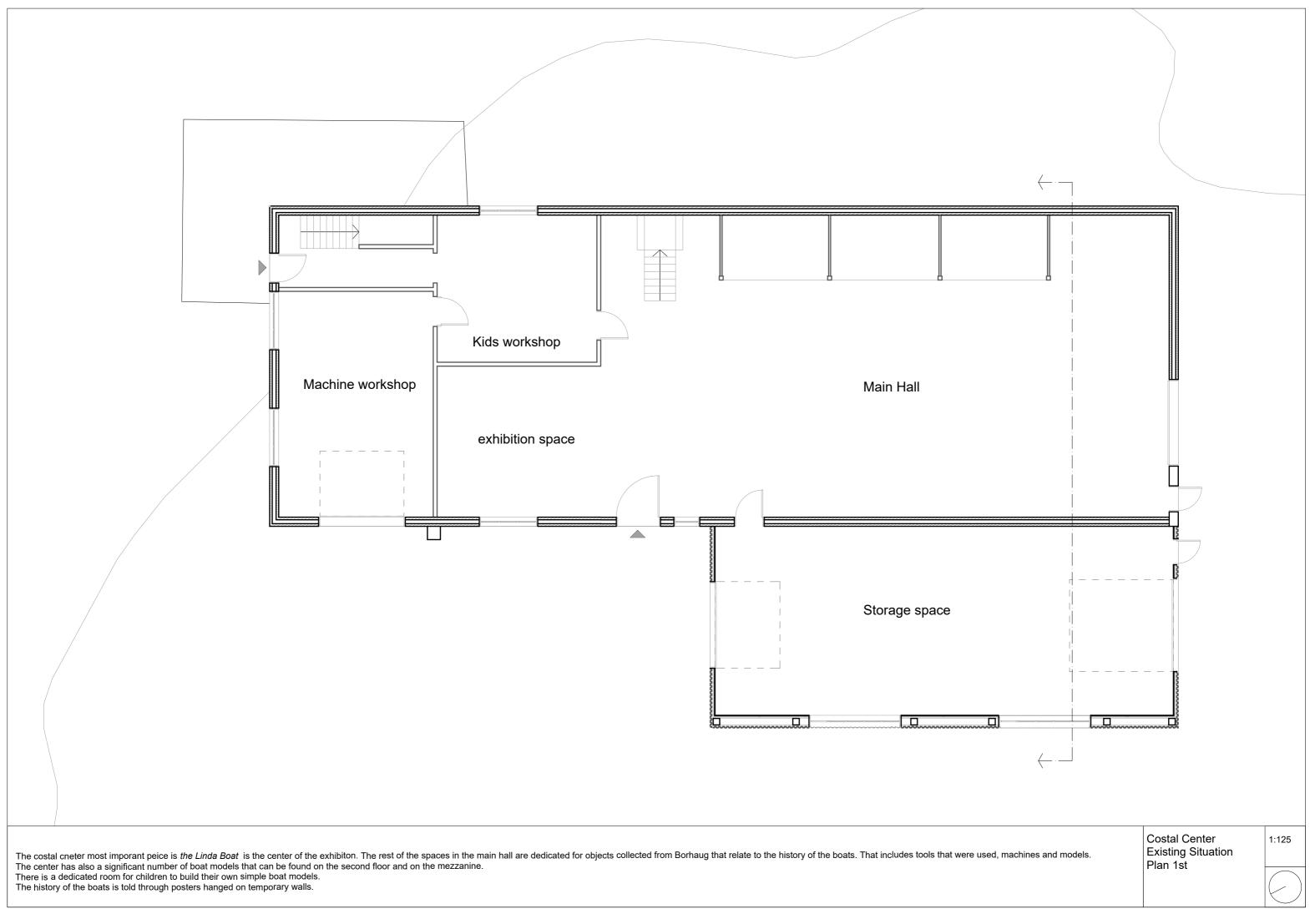


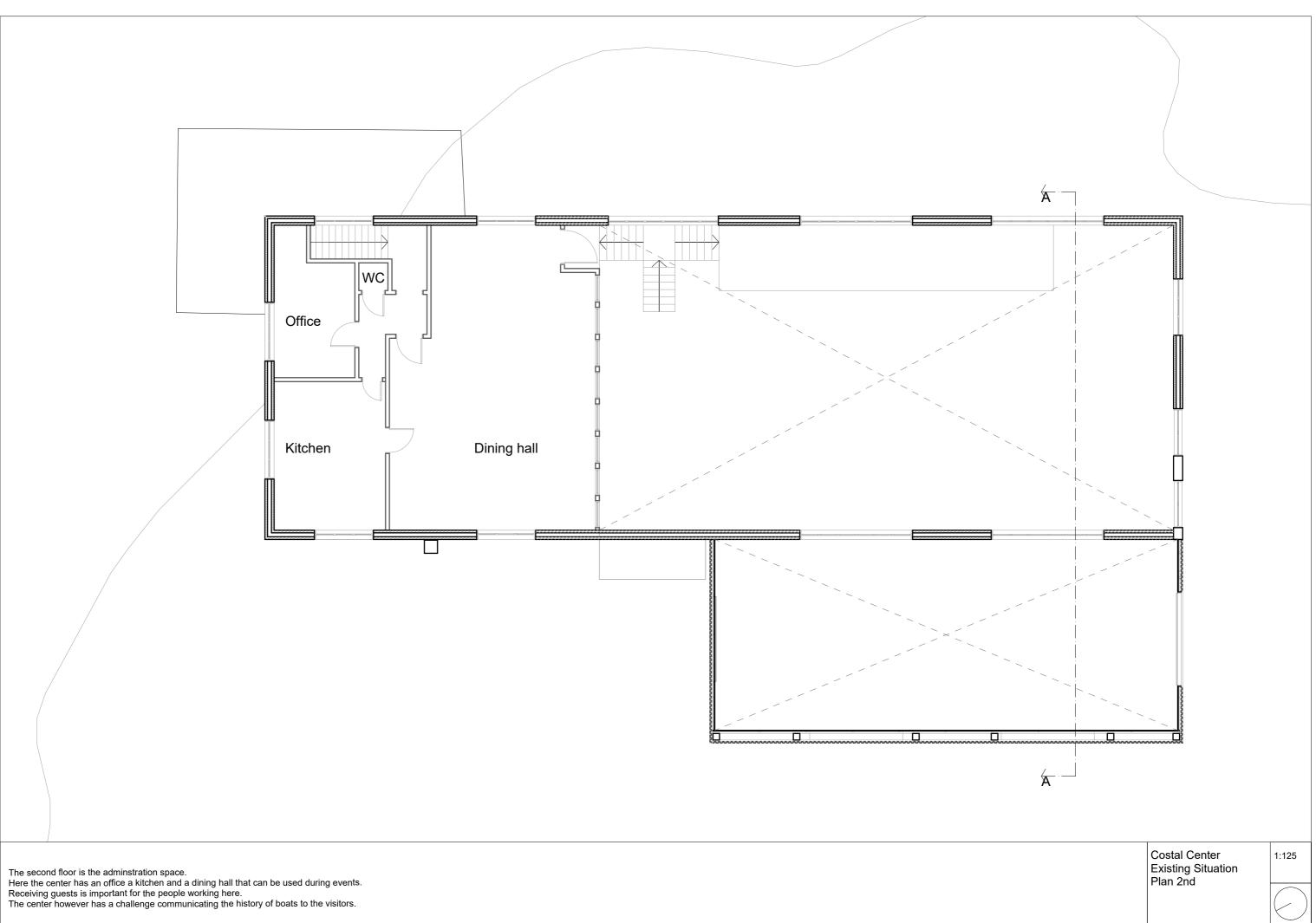


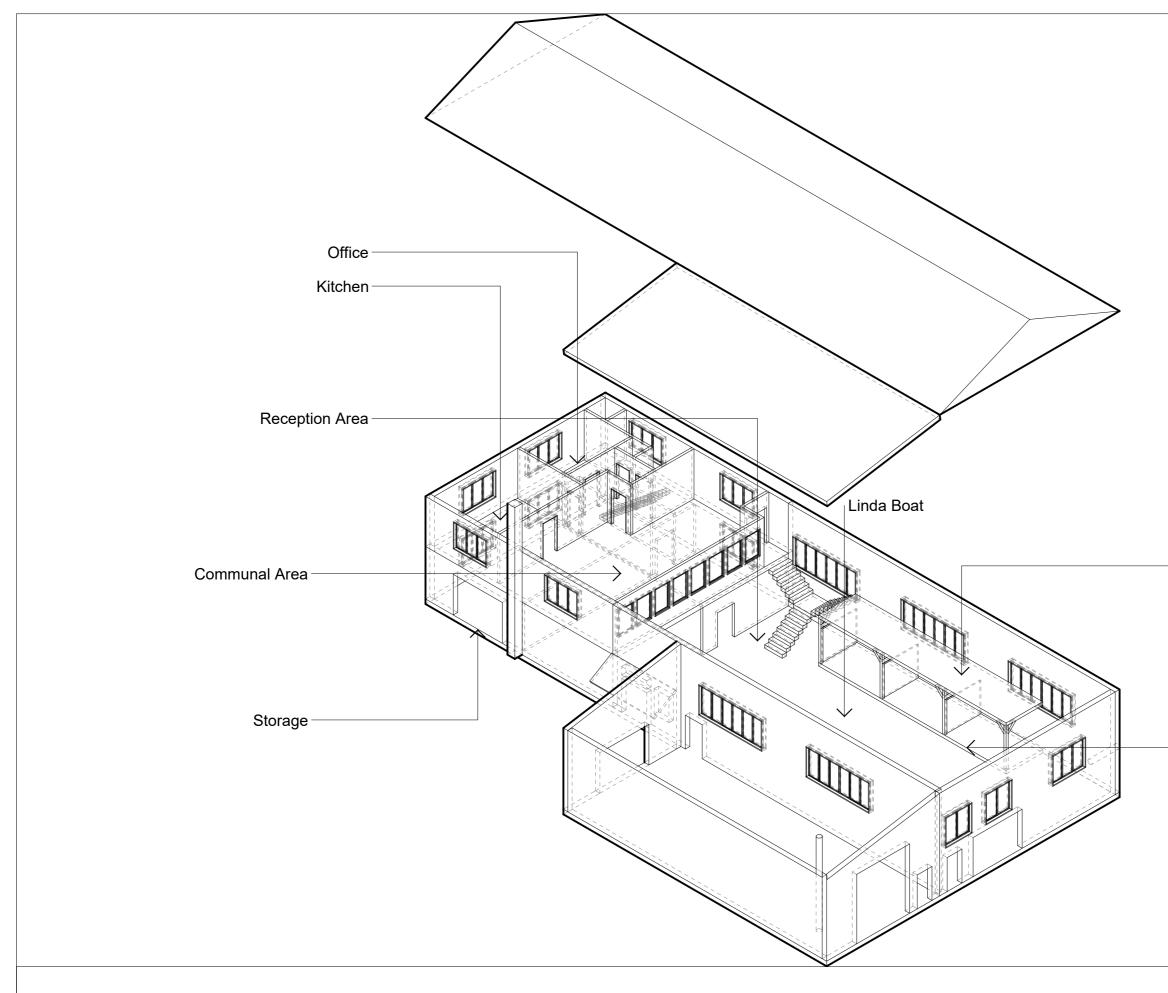


Borhaug is a costal village. The connection to the sea side is important. The site takes place in an important and rather highly contested area. Here there are many interested parties. The public wants access and views. The kindergarden uses the area for activites for the children. The fishing shop has many parties interested in it as a restruant, appartment, workshop for boats etc. The project has to take into consideration all theses asperiration and the propsal should be as inclusive as possible.







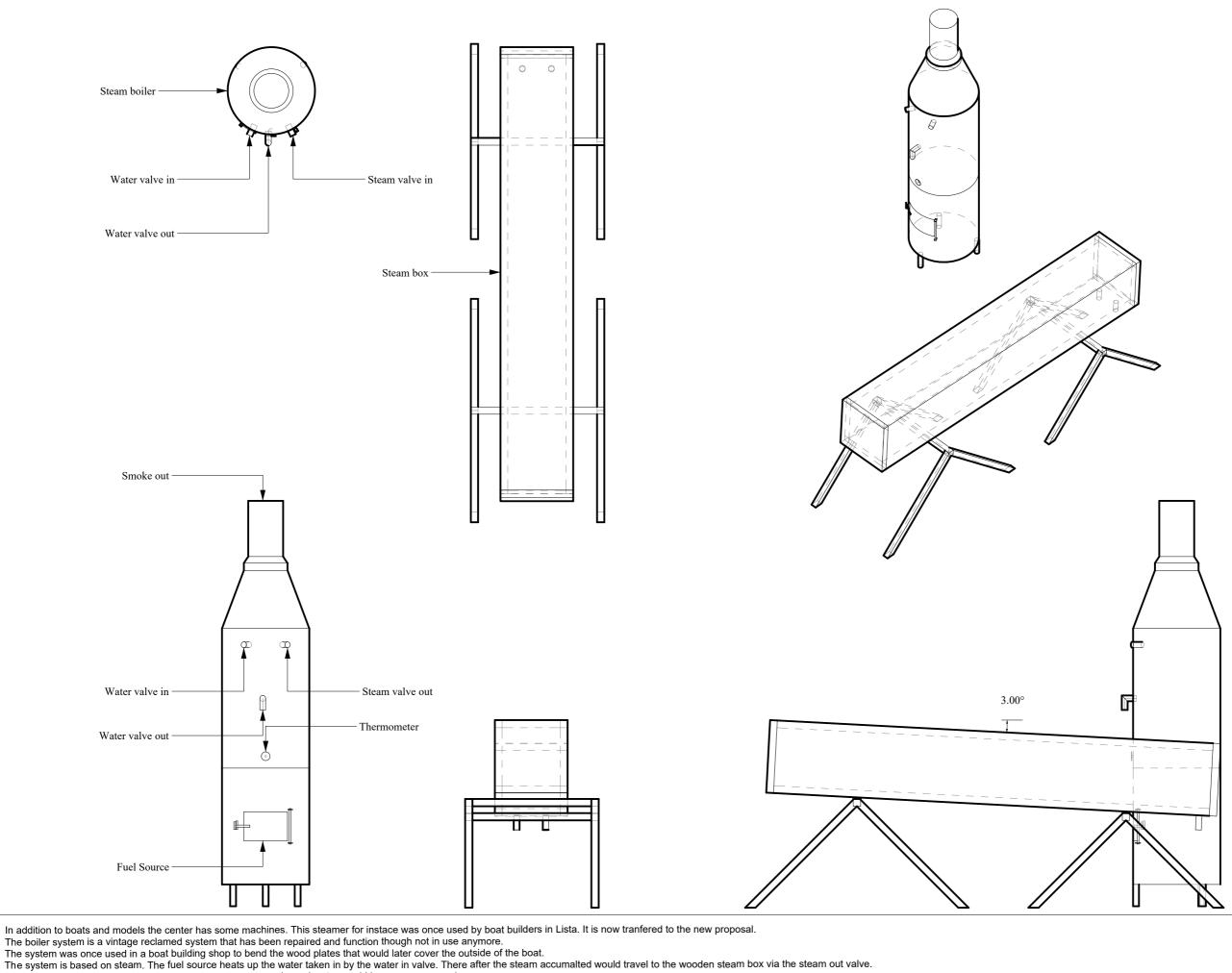


The center seems to have overgrown its inteded purpose. The user experience is not connected to the history of the boats. The addition of new elementes like the mezzanines comes in conflict with the existing windows. The adpative reuse of the building is a positive aspect but it connects very little to its orignal function. From the outside its hard to see how this building is hosuing the history and the tradition of boat building.

Mez

Exhbition Spaces

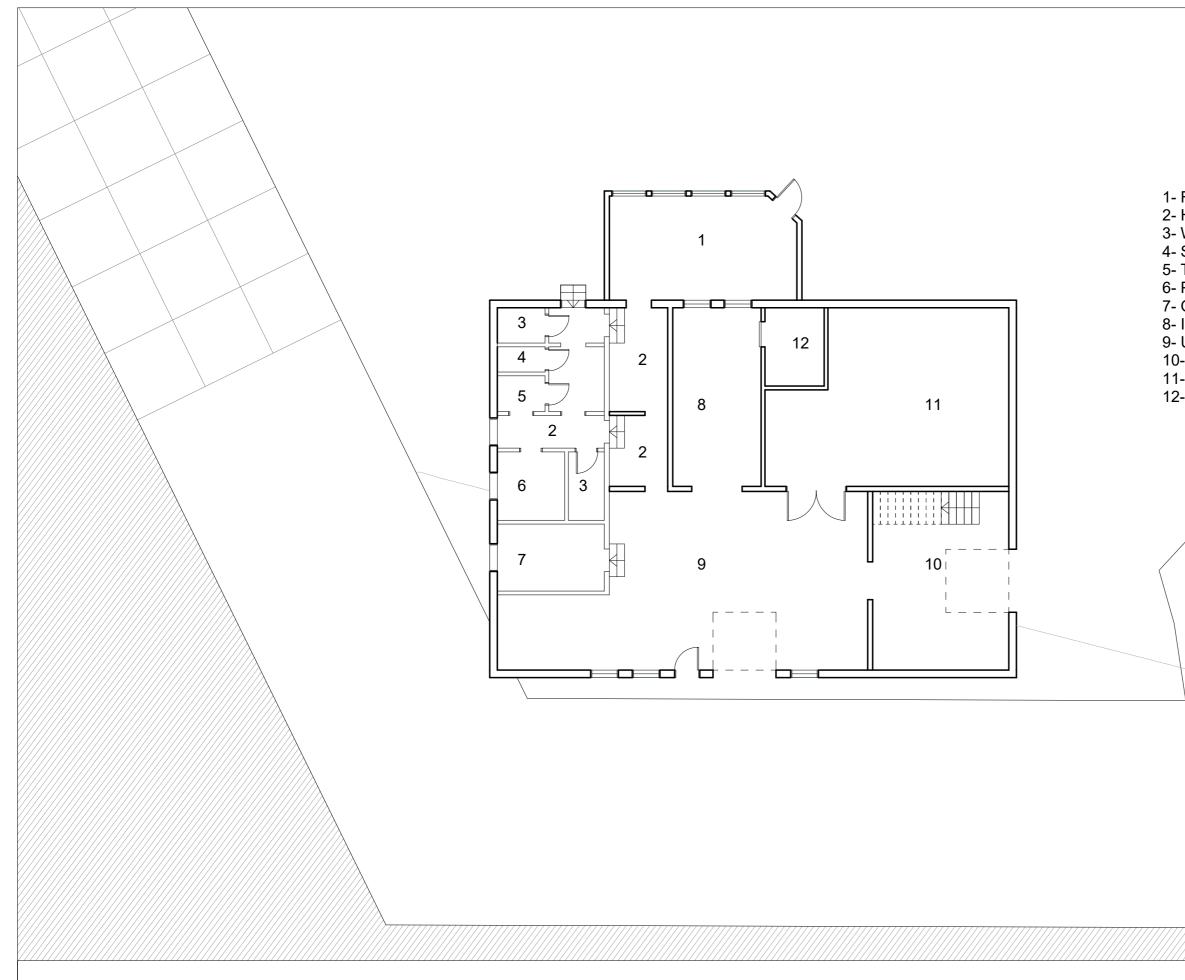
Lista costal culture center



It is imporant to let the steam box be at a ngle so that the condensed water would have an escape valve.

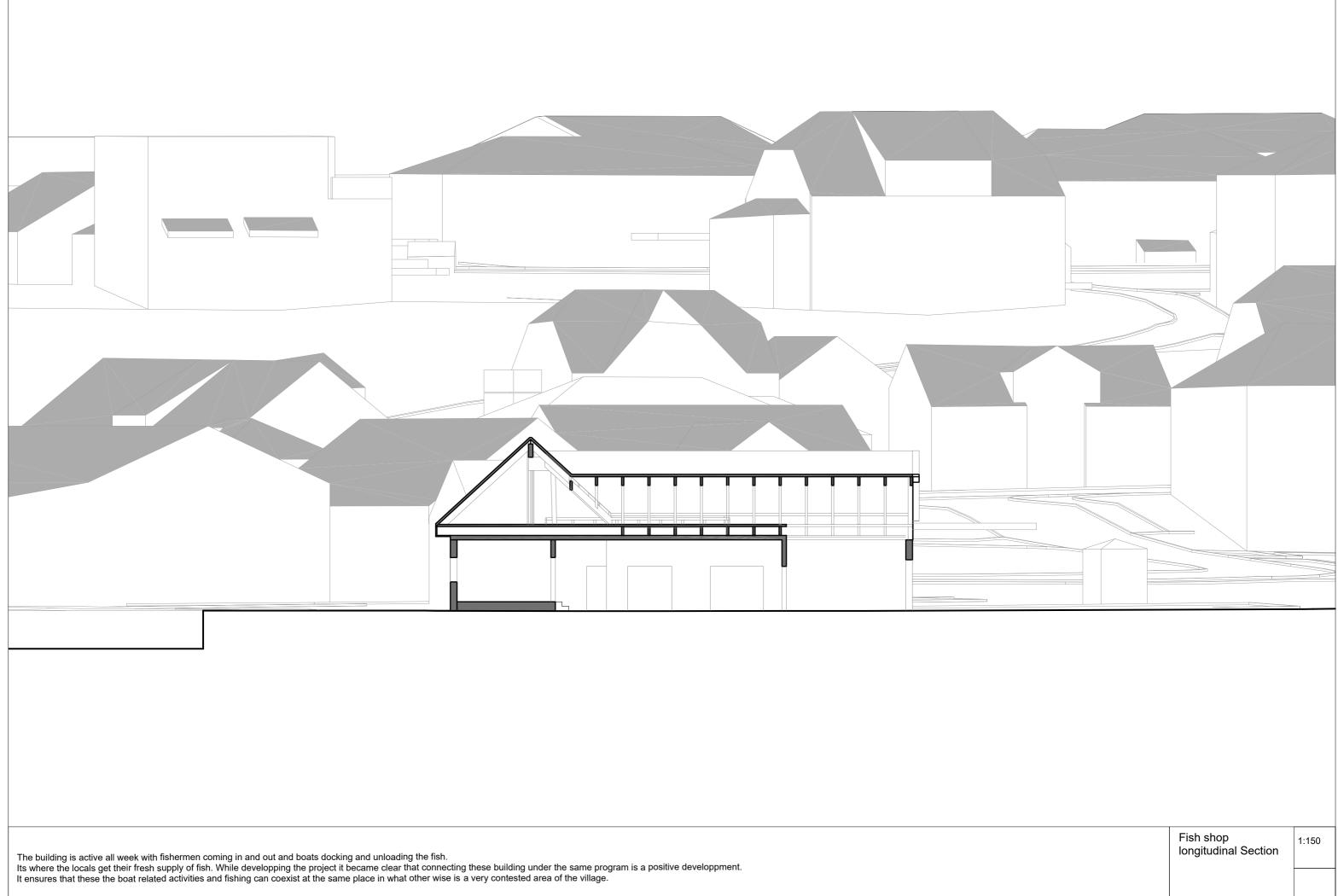
The steam also has to start at a low place so that it can travel up the steam box.

Steam Boiler System | 1:25



The *Sjø Fisk og Skalldyr* shop takes place in this building. The building has a small selling area a personal area for the employees to change clothes take breakes etc. The large areas are reserved for unloading, preparing and freezing the fish that gets unloaded from the boats. The building is active during the week with sale happening only twice a week.

Reception Hallway WC Shower Technical room Private kitchen Office Industrial Kitchen Unloading hall - Storage room - Fridge - Freezer		
	Plan 1st 12/8/2023	1:150



Fish shop longitudinal Section	1:150

CHAPTER II

Site visit to Brekneholmen











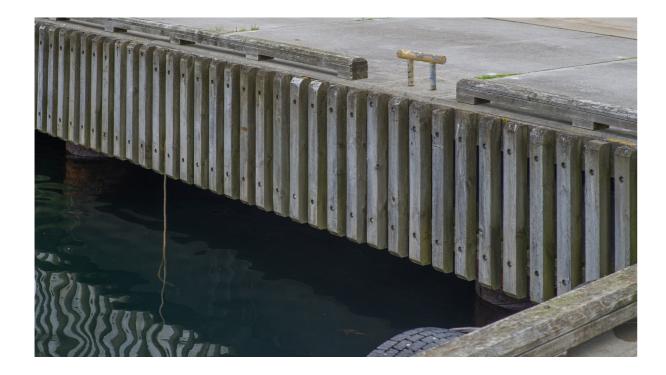








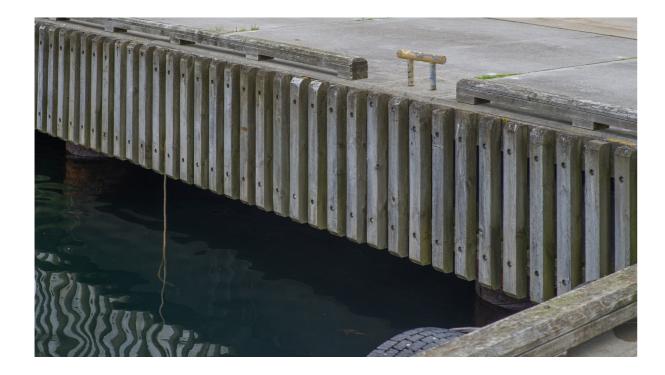












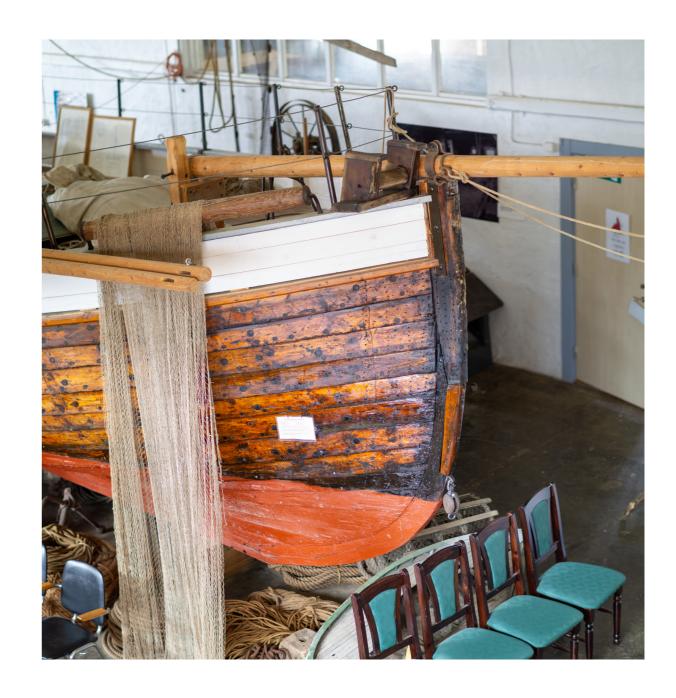


CHAPTER III

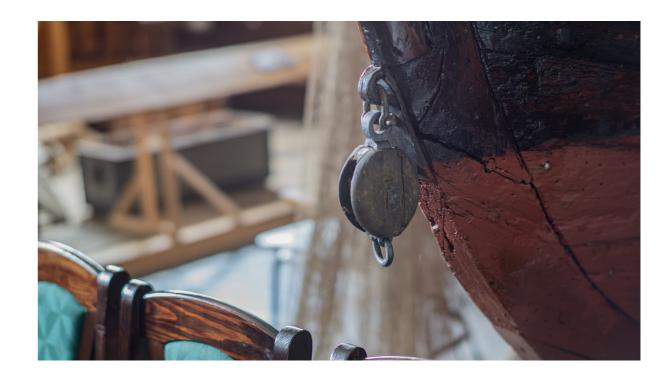
a visit to the Lista costal cultural center

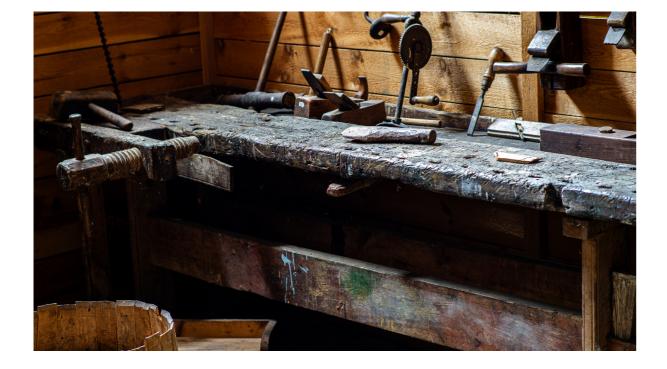






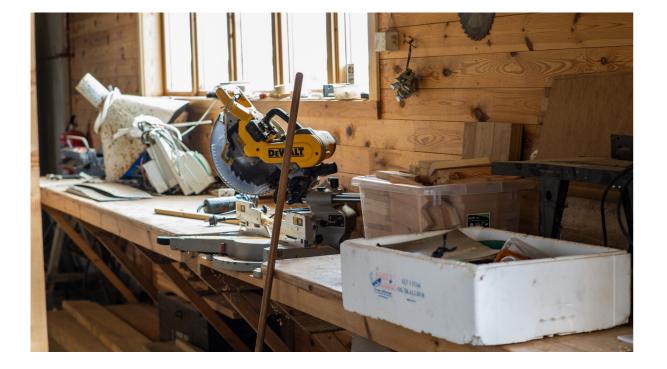












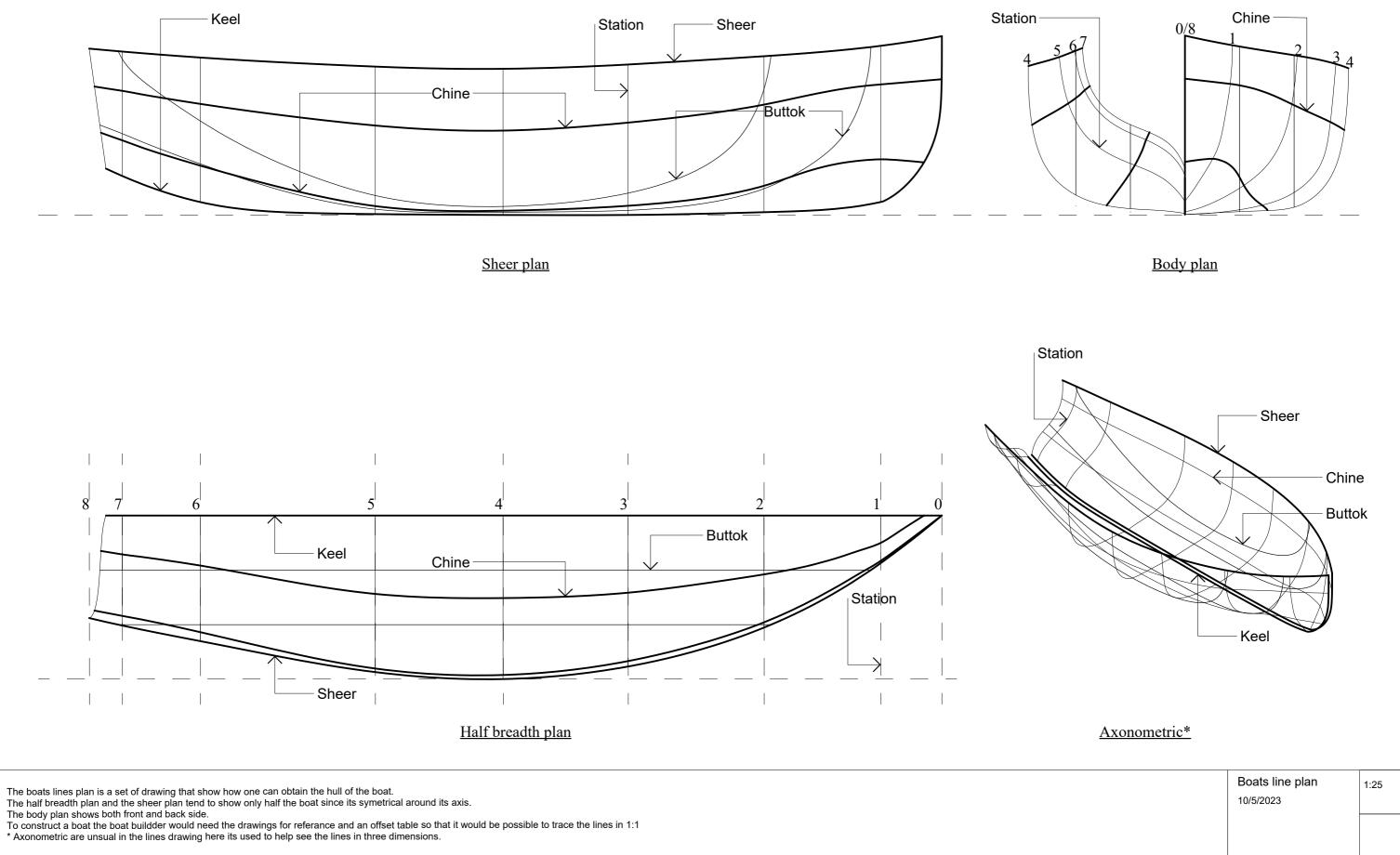


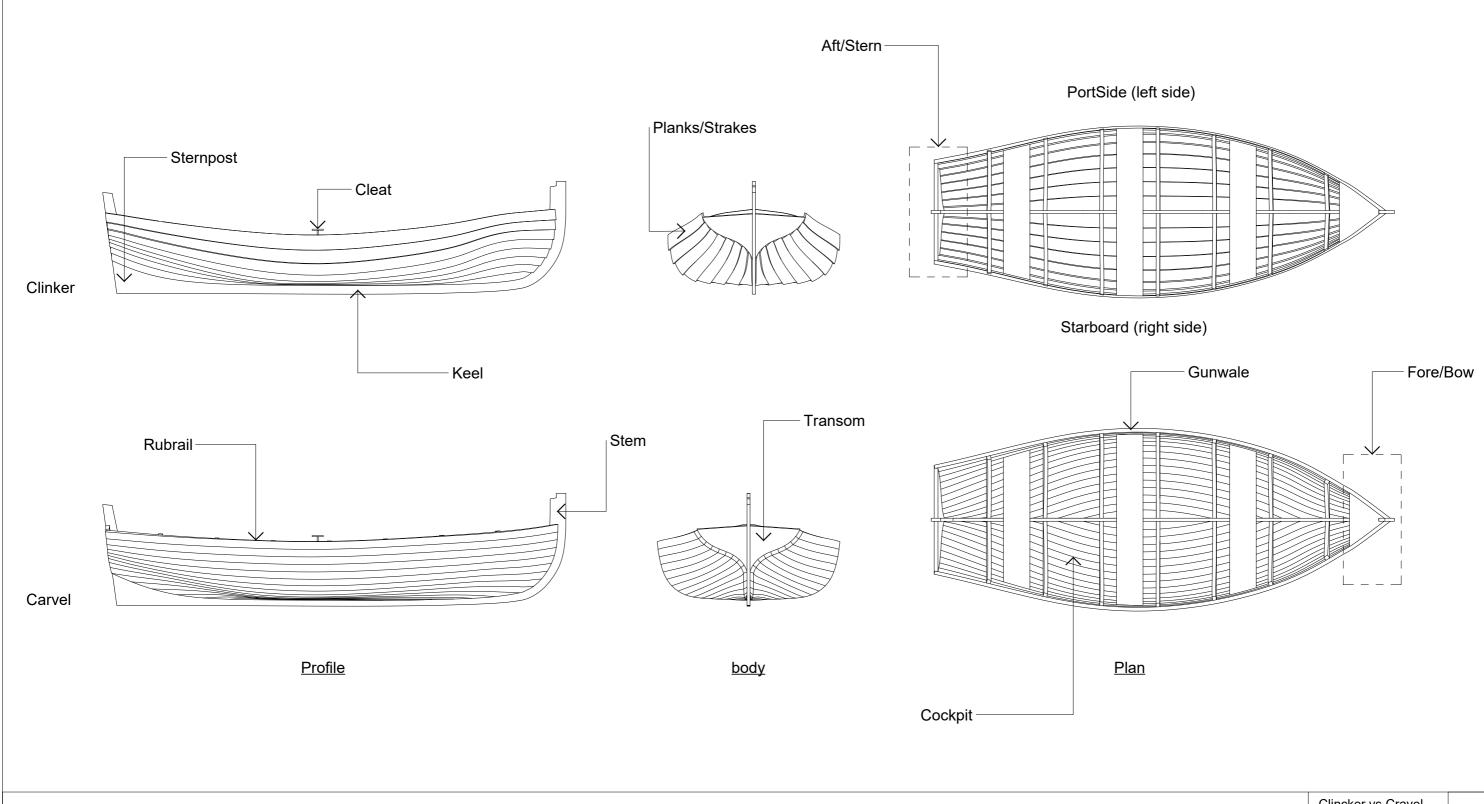




CHAPTER IV

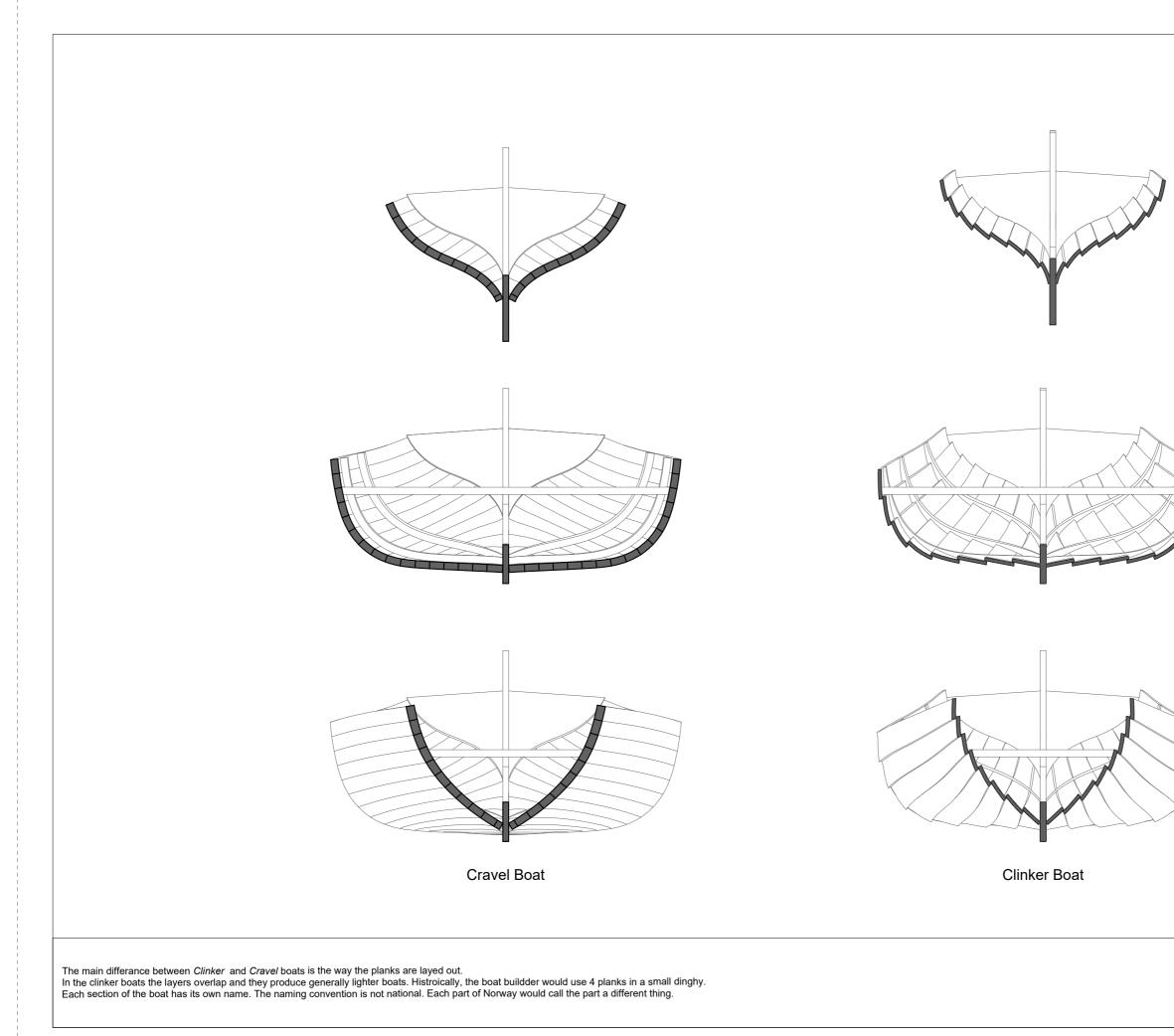
what are boats and how to build one?



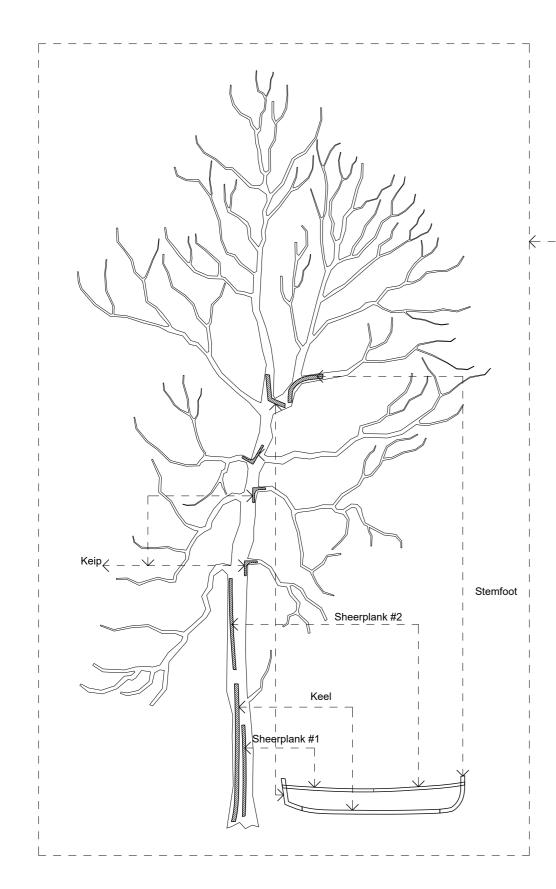


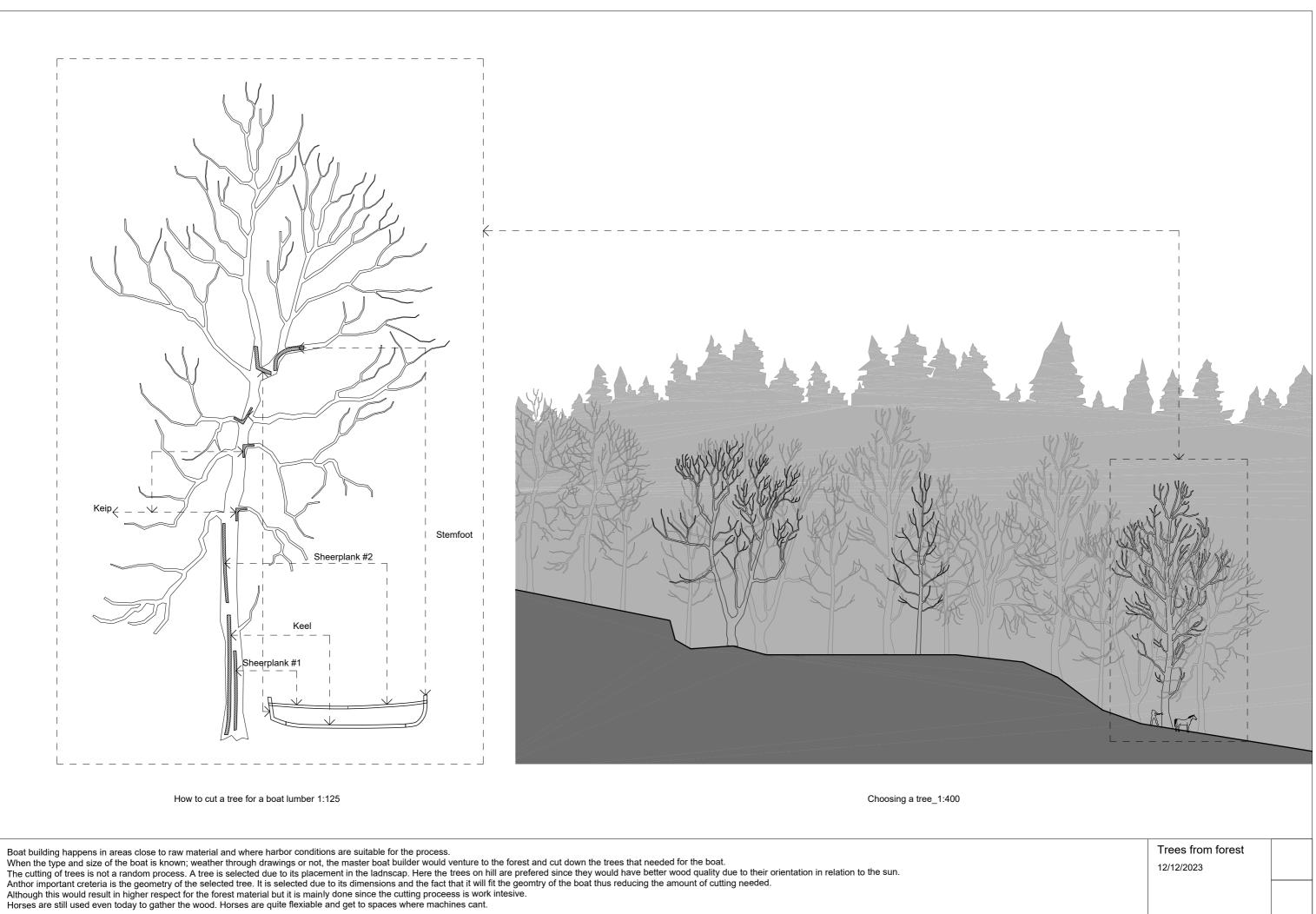
Boats are very much affected by the cutlure of the place they are made even at at national level. Different places in norway would refer to the same parts of the boat different names. The main differance between the clinker and the cravel is the planking technique. Clinker boats planks overlap however Cravel planks dont. They also have different construction methods. The Clinker boat tends to be lighter but more time consuming to build. It most likely that the bending technique of planks involved submerging the planks in water overnight as they did it in Hardanger with

	Clincker vs Cravel 10/5/2023	1:50
th the Strandebarmaren.		

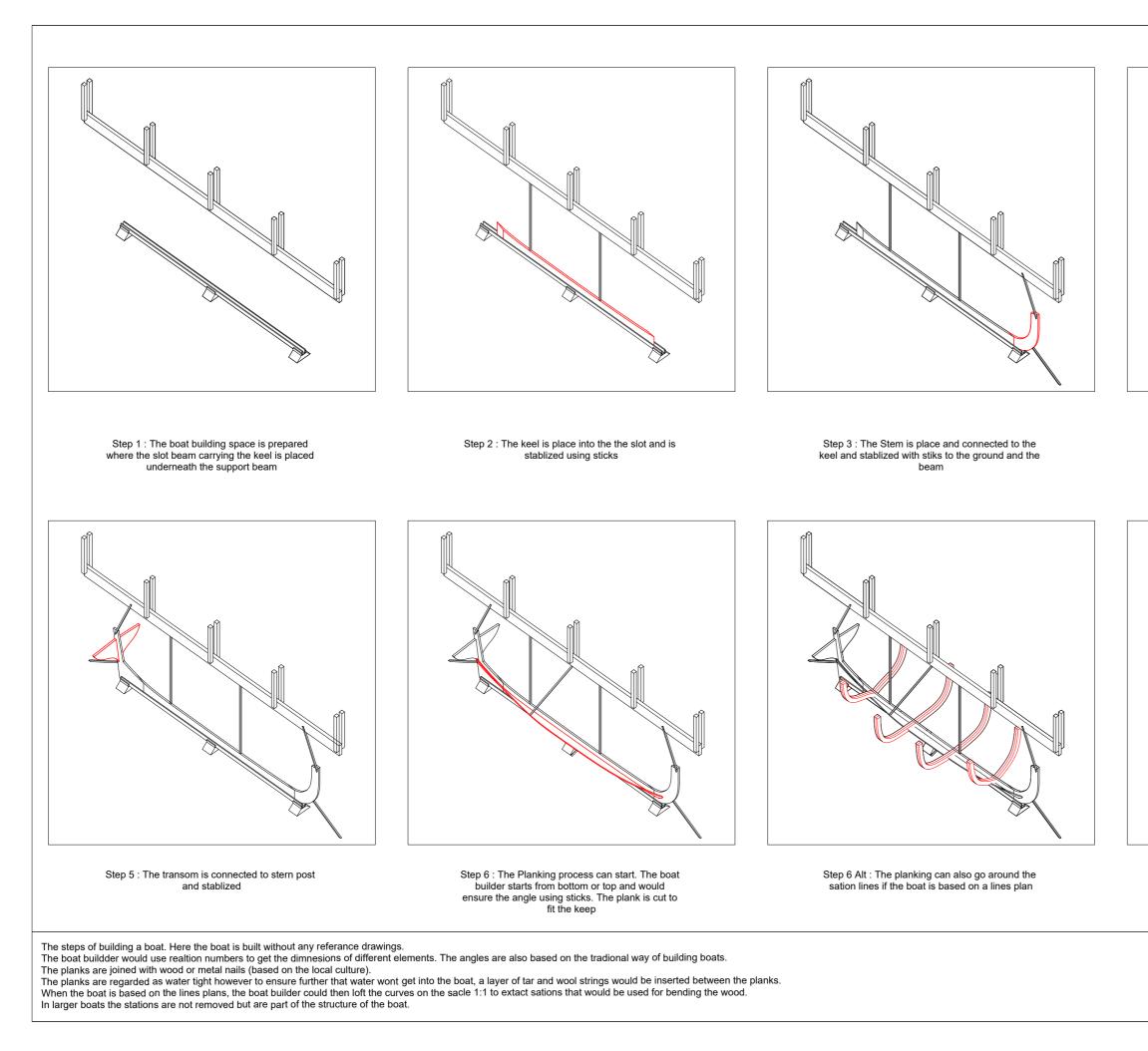


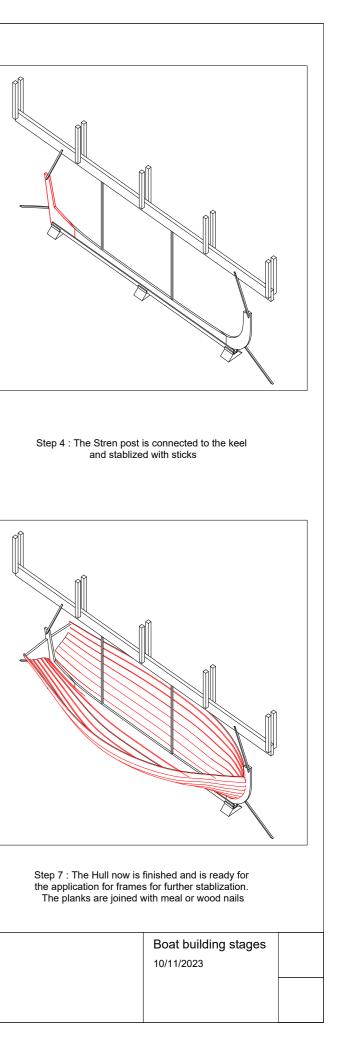
Section Clinker/Cravel 1:25			
Section Clinker/Cravel 1.25			
Section Clinker/Cravel 1.25)		
Section Clinker/Cravel 1.25			
Section Clinker/Cravel 1.25	~		
1.25			
1.25			
1.25			
1.25	<i>></i> /		
1.25			
1.25			
1.25			
10/9/2023			1:25
		10/9/2023	

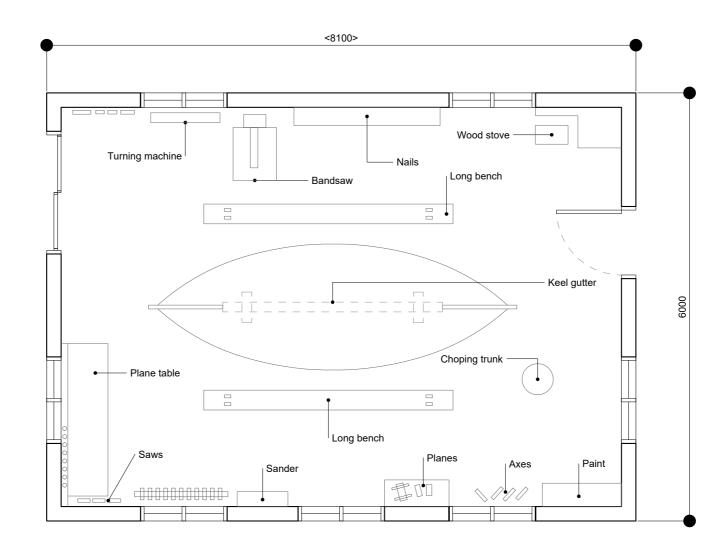




How to cut a tree for a boat lumber 1:125





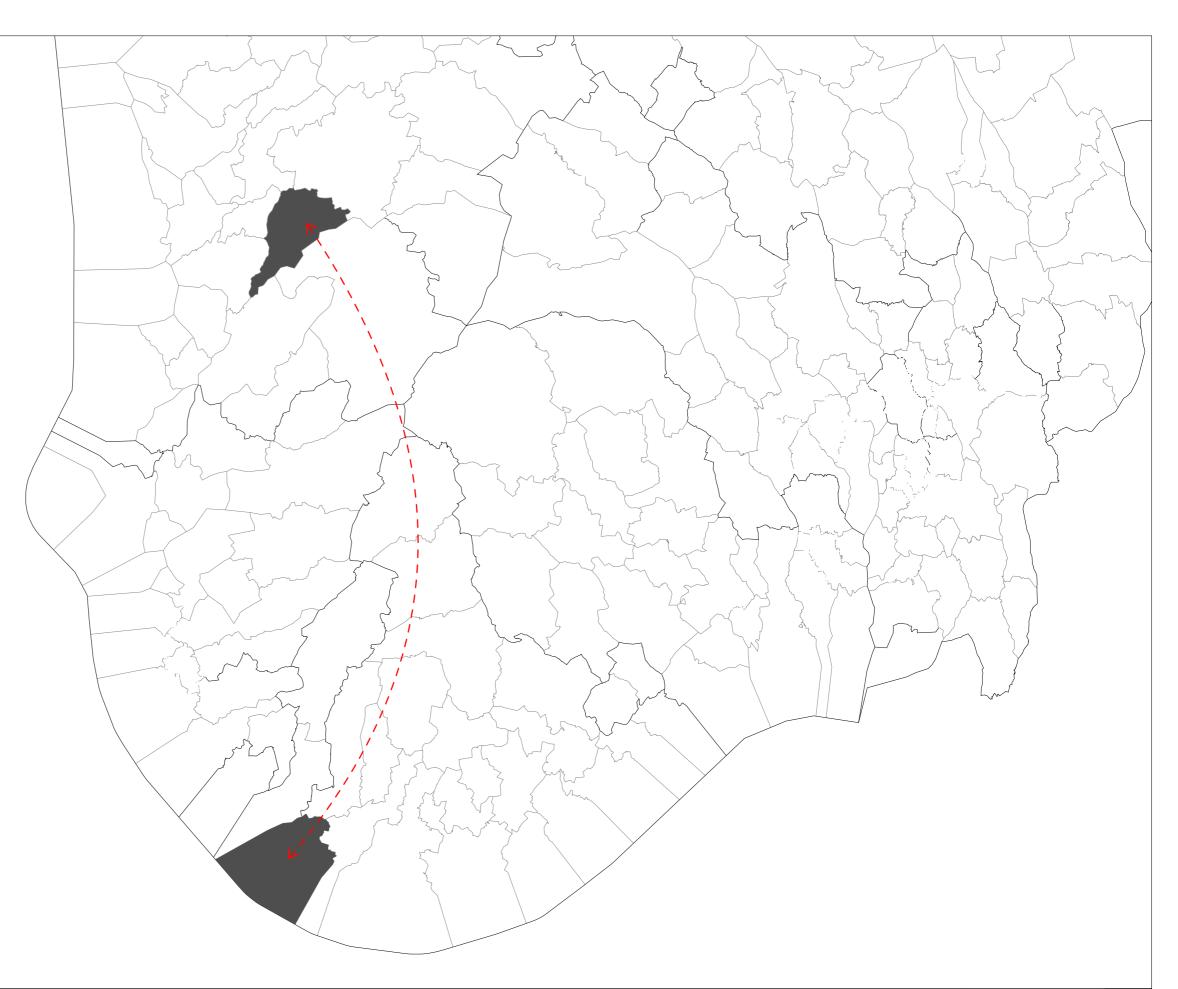


The sketch is traced from *Strandebarmaren : Småbåtbygging i Hardanger.* It shows how the boat builder Arne Tveit has organized his workshop. Alot of common traits between different workshops can be found, for instance the presnce of the keel gutter and the helping beam. The tools are orinted to wood working if the workshop in question is interested in traditional boat building.

Boat Workshop	1:50
10/11/2023	
	Boat Workshop 10/11/2023

CHAPTER V

a visit to Hardanger fartøyvernsenter



The boat history in Lista connects it to the larger boat building tradition in Norway and sepecifcally the Hardanger region. It was Gier Gundersen (born in 1785 in Hardanger) who broguth the knowledge of boat building to Lista. He combined the east and west boats into what was to be called Lista boat afterwards. This inscribes Lista boat building in a long tradition that streches back all the way to the viking age. Hardanger-Farsund 10/18/2023











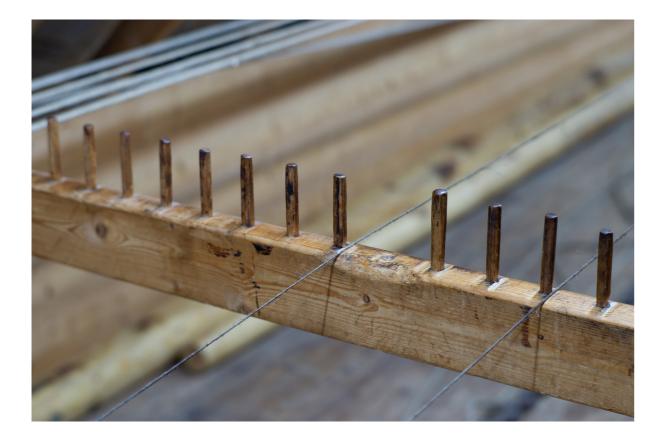






















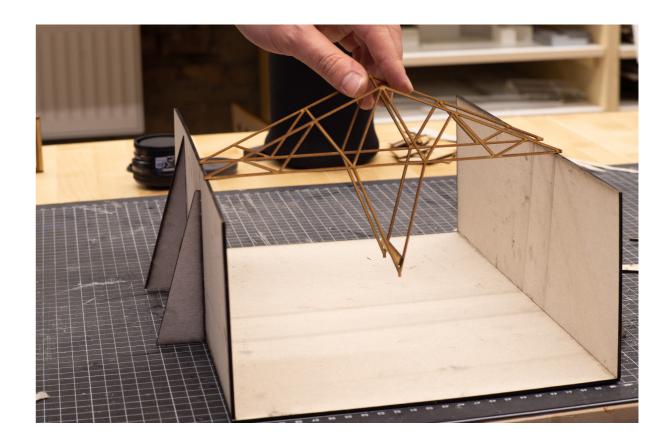


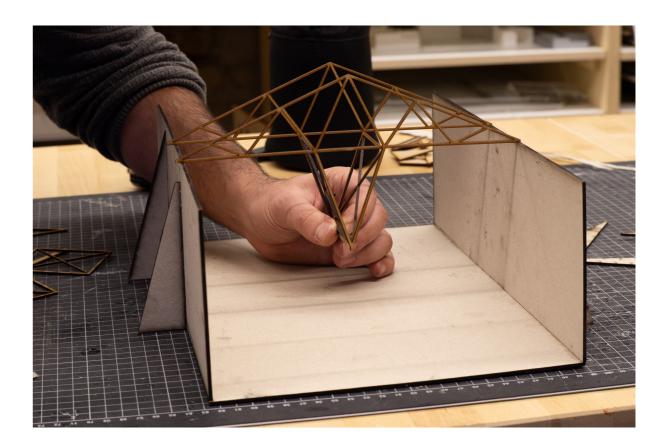
Appendix I

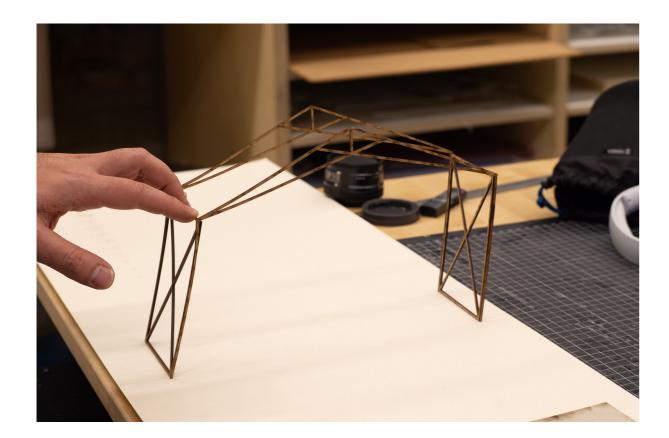
Exploring truss systems

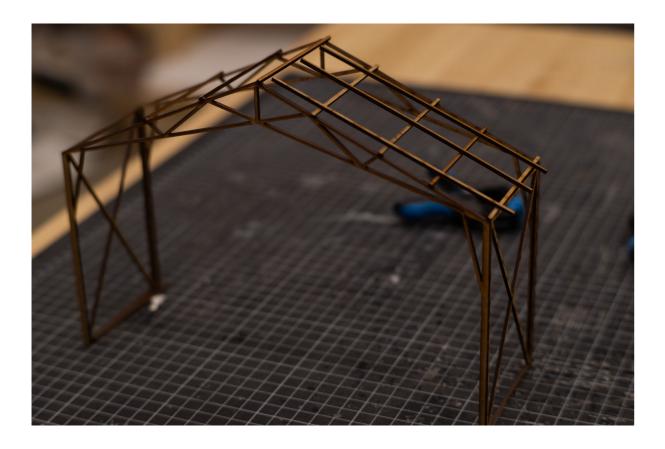


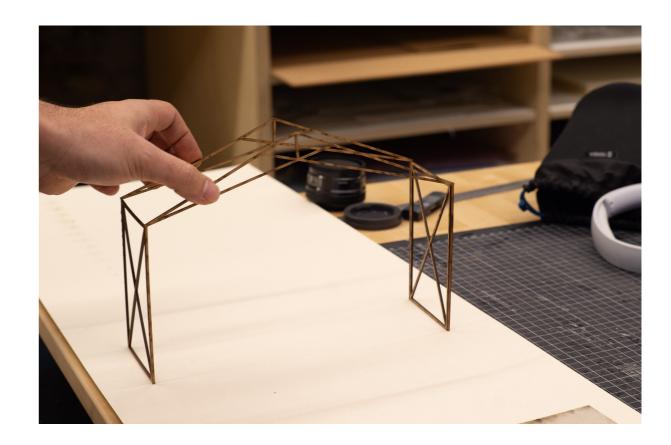


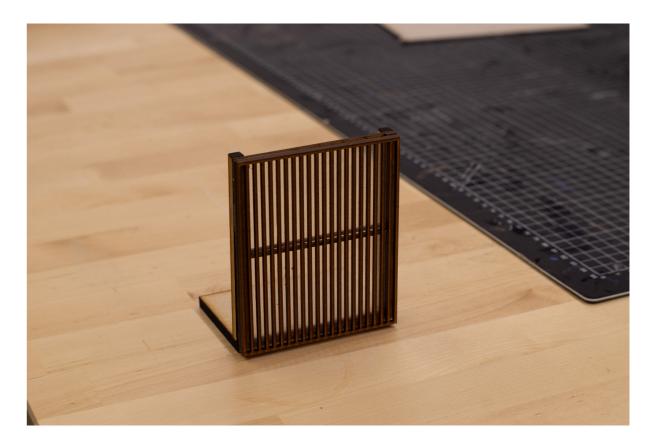


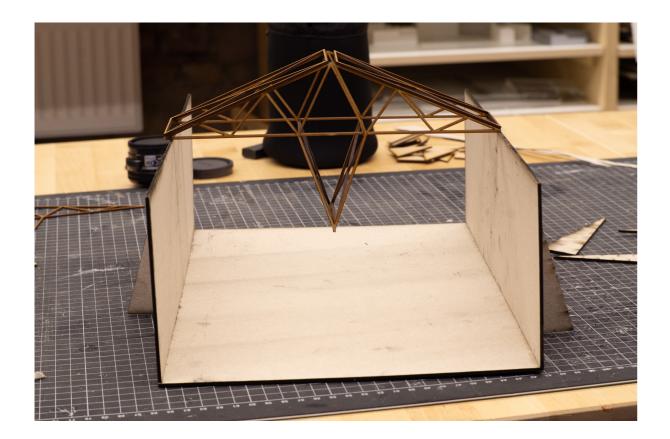


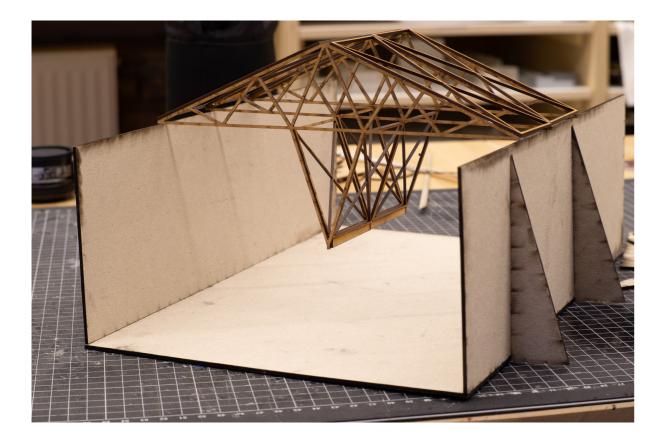


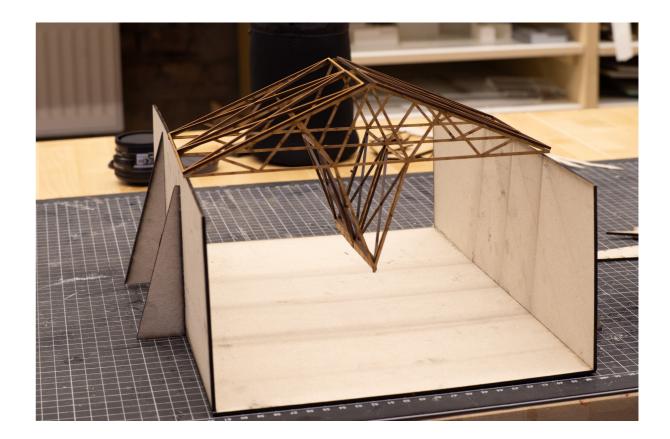


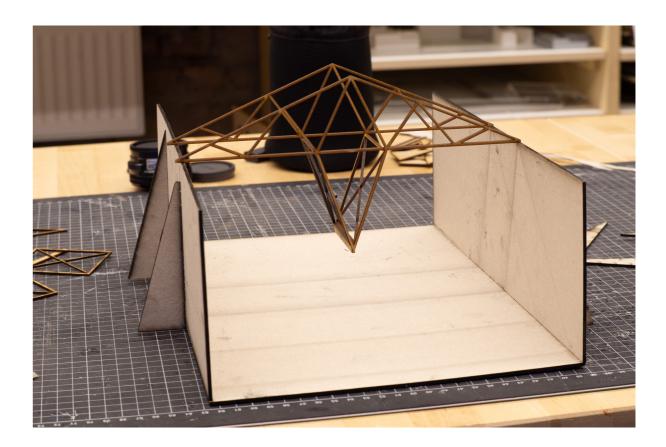










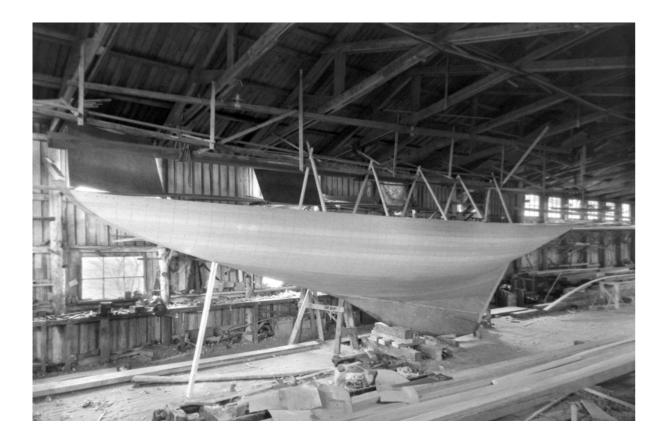


Appendix II

Boat workshops from history



Williams (1950) Storvik mekaniske verksted i Kristiansund



Sollem. (1934) Bygging av seilbåt.



Acknowledgments

I would like to thank

My supervisors Rolf, Lone and Wenkai for their input during the diploma semester.

Halvor Langmyr from the Lista costal Center for meeting me and answering my many questions about the Lista boat.

Peter Helland-Hansen from Hardanger Fartøyvernsenter for showing me how boats are built.

Ole Morten for helping me with the structure.

Øyvind Adolfsen for meeting me to talk about boat slipways.

My wife Marthine Spinnangr for her unlimited support.

References

Helland-Hansen, P. (2014) Strandebarmaren Småbåtbygging i Hardanger. Kapabel

t,N. (1950 – 1965) fartøyet Masi ved Storvik mekaniske verksted i Kristiansund https://digitaltmuseum.no/021018350235/foto-fra-fartoyet-masi-ved-storvik-mekaniske-verksted-i-kristiansund-fotograf

Sollem, GL. (1934) Bygging av seilbåt. Interiørbilde fra Bjarne Aas Båtbyggeri, trolig fra båtbyggeriet på Bjølstad, Kråkerøy https://digitaltmuseum.no/011015099283/bygging-av-seilbat-interiorbilde-fra-bjarne-aas-batbyggeri-trolig-fra-batbyggeriet

Fotohuset.(1946 — 1965) En båt under bygging ved Welles båtbyggeri i Egersund. https://digitaltmuseum.no/021019501641/en-bat-under-bygging-ved-welles-batbyggeri-i-egersund