



“

Det er bra å lukte, føle og kjenne

-en båtbygger

Innhold

Historien	1
Besøk på tomta	2
Båtsamlingen	6
Opptegning av båter	8
Tegning av situasjon	10
Skissering på kart	11
Norske trekonstruksjoner	14
Logistikk	18
Situasjonsmodell	19
Undersøking av størrelser og volum	21
Skissering	22
Detaljer	33
Planer	35
Fasader	43
Breddesnitt	51
Langsnitt	61
Båtvogger	66
Saging av materialer	68
Bygging 1:1	70



Historia

Alt er en prosess. Opptaken til denne diplomen strekker seg minst to år tilbake. Jeg har en interesse for arkitektur som lar folk leve enkle liv som belaster jorda minst mulig. Jeg følte at Arkitektstudiet ennå ikke hadde gitt meg svar på hvordan. Jeg trengte å teste en annen innfallsvinkel enn arkitektur.

Jeg er interessert i trekonstruksjoner og drar på folkehøgskole på fosen for å gå Norges eneste trebåtbyggerlinje. Det er en folkehøgskole med et sterkt fokus på økologi og livsstil og jeg kommer ut av det med retning og visjon, en skett realisme, og masse drømmer.

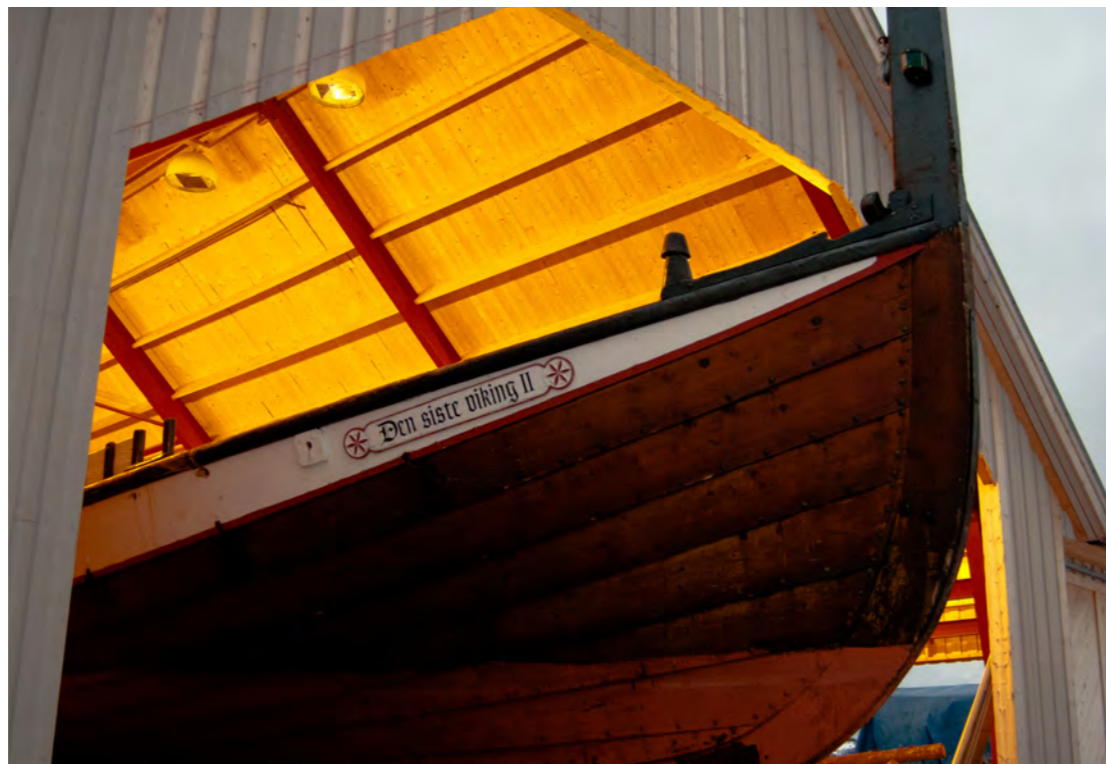
Jeg har egentlig lyst til å bygge meg en egen åfjordsfæring. Kanskje har jeg et ønske om å bli båtbygger, men ønsket om å bli arkitekt sto også sterkt. Til slutt bestemmer jeg meg for å gjøre ferdig siste år på arkitektur med båtbyggingsåret i minne. Min første diplomidé er å bygge en færing og overføre erfaringer til arkitektur. I praksis ville det blitt en båt og en teoretisk oppgave i tillegg. Det er usikkert om det i det hele tatt lar seg gjøre og idéen er ennå ikke moden. Flere råder meg til å tenke igjennom valget. I en diskusjon over en kasse øl med kamerater kommer det opp en tanke om å se mer på metalløse trekonstruksjoner. Dette virker som en utrolig spennende idé for en diplom der interessen for økologi, tre og estetikk kan la seg fusjonere.

Fremdeles mangler et prosjekt. I en lang tid driver jeg en kartlegging av mitt nettverk for å finne ut hvem jeg egentlig kjenner som holder på med noe som kan være realt til det jeg har lyst til å drive med. Det begynner å nærme seg jul. I januar skal er diplomperioden i gang. Jeg begynner å føle litt stress fordi jeg ennå ikke har et konkret prosjekt. Jeg tar en telefon til min båtbyggerlærer og plutselig spretter det fram et prosjekt: Jeg hadde en gang en båt.



Besøk på tomta

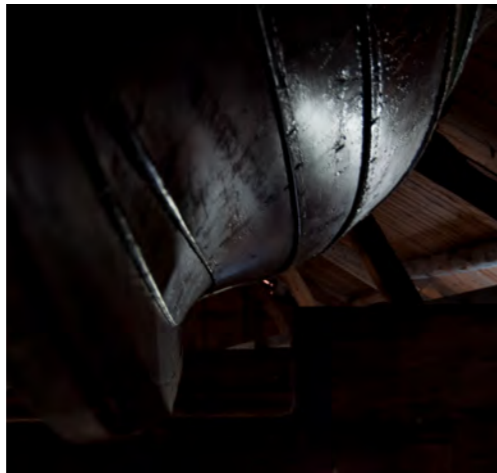




Besøk på tomta

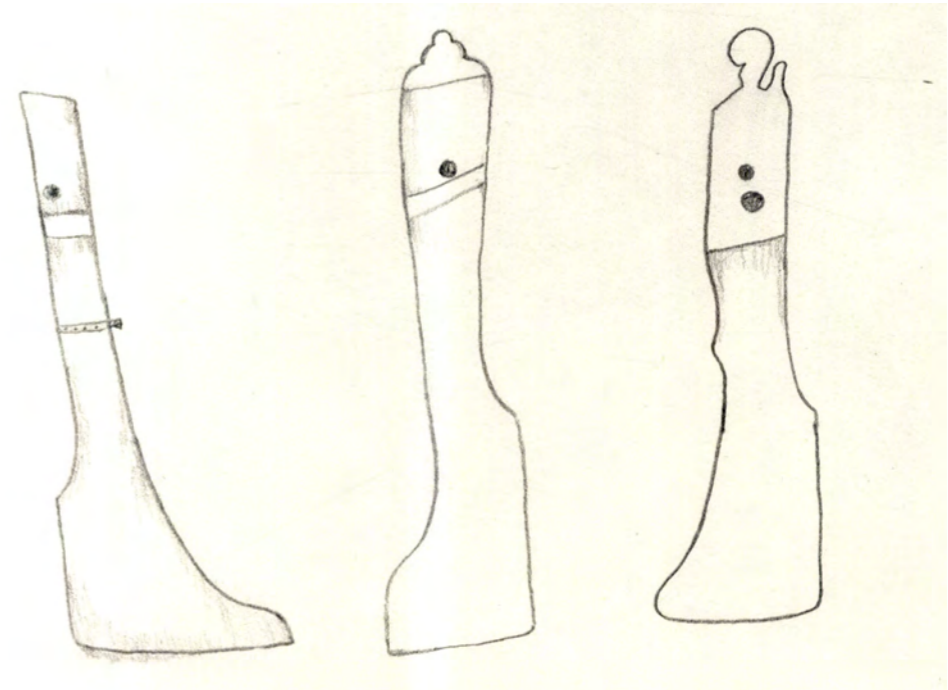
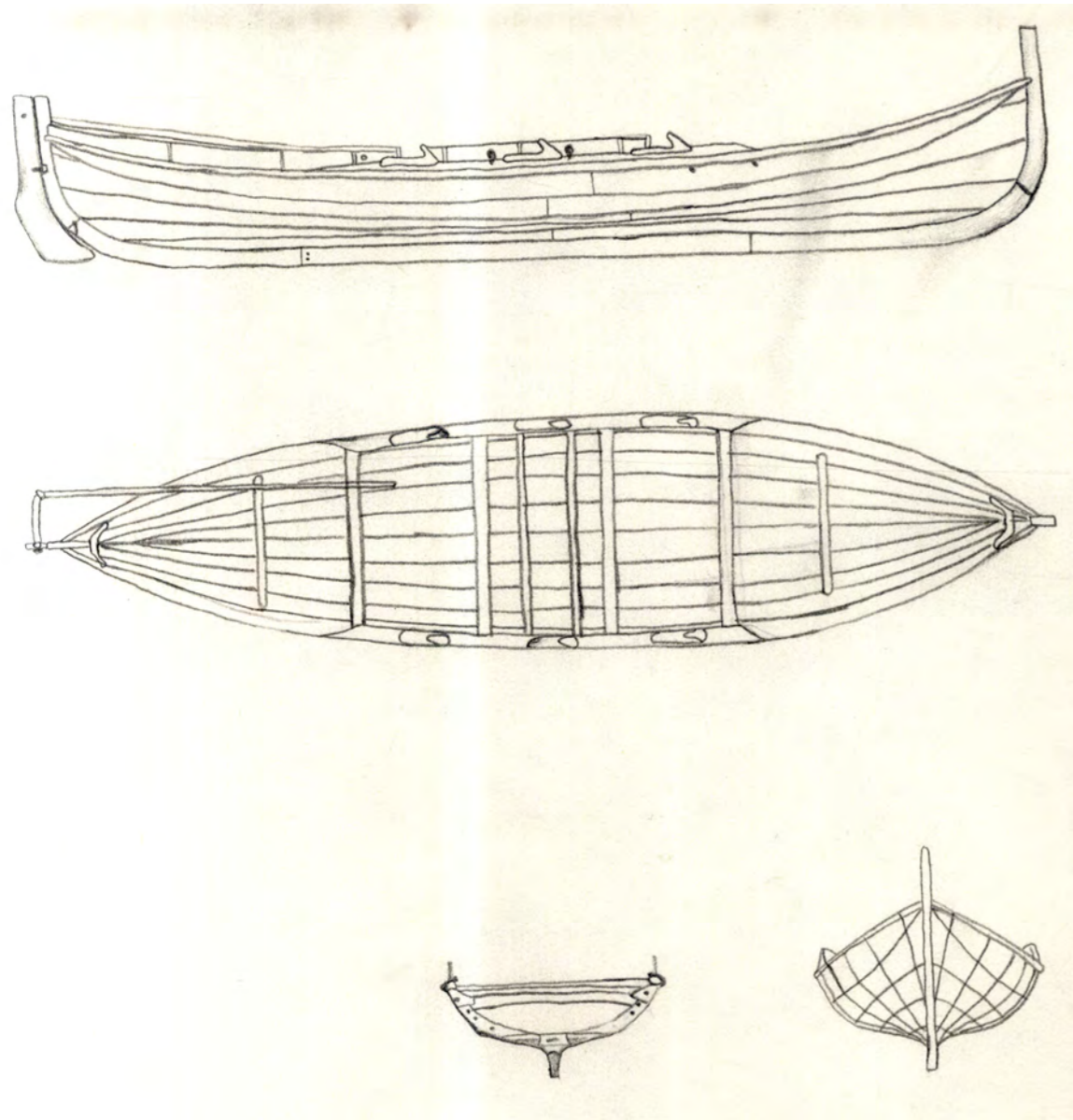


Dokumentering av båtsamlingen

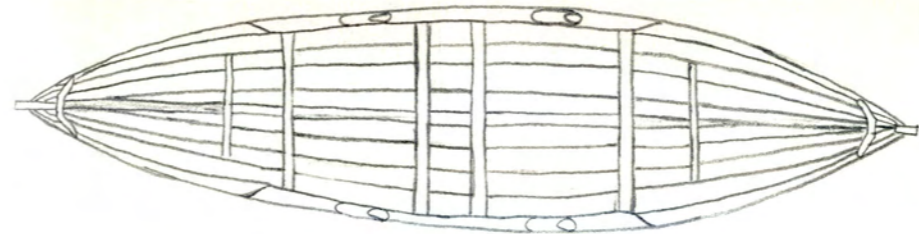
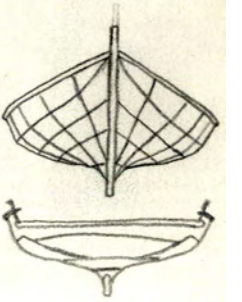
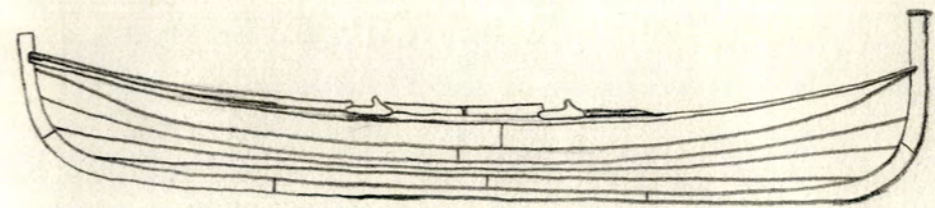
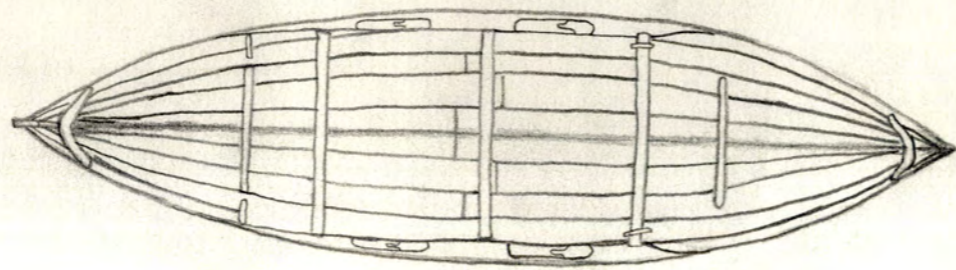
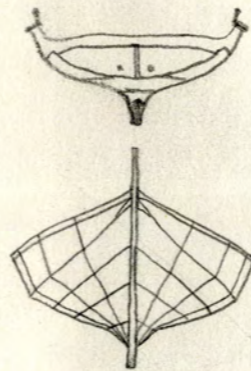
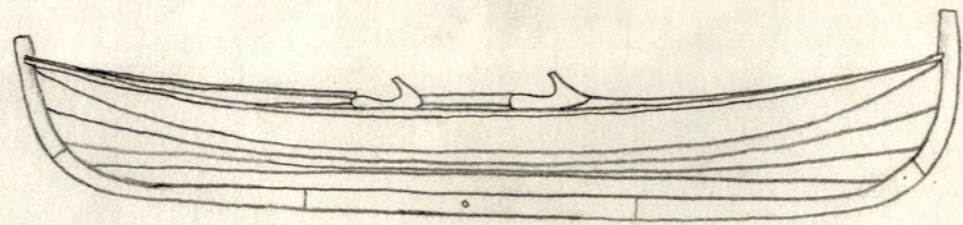




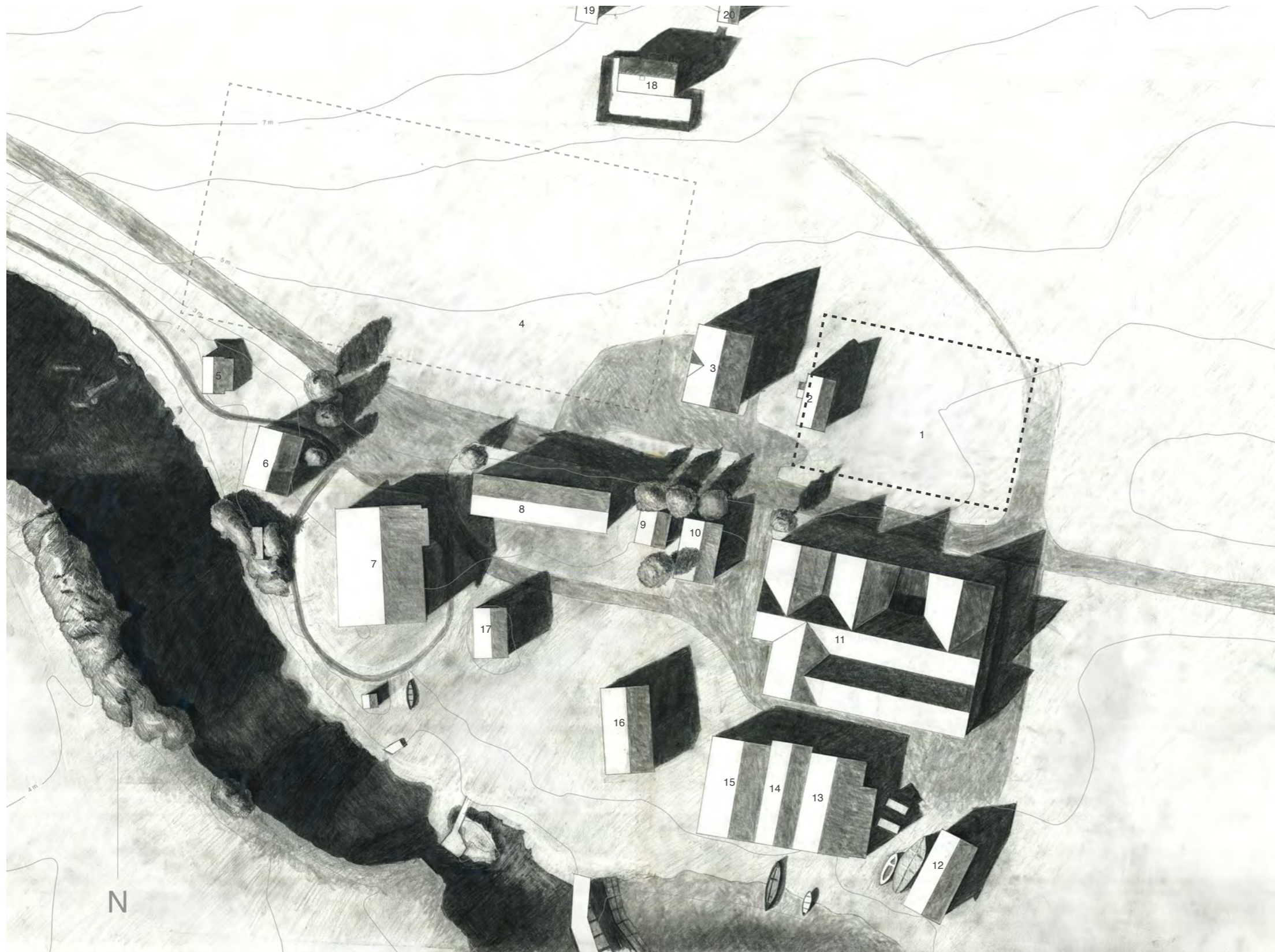
Opptegning av båter



ÅFJORDS-FÆRING.



Tegning av situasjon



- | | |
|--|--|
| 1. Båtmagasin | 14. Tommerslottet (Trønderlån) |
| 2. Tommerslottet (trønderlån) | 15. Huginnaustet (1. etg.: Naust og motelkale
2. etg.: overnatting) |
| 3. Administrasjon | 16. Muninnaustet |
| 4. Tomt for museumsbyg | 17. Glottennaustet |
| 5. Strandsitterstua/ Johannesvikstu | Gården |
| 6. Aarlotnaustet | 18. Rønninganstu (Trønderlån) |
| 7. Museum, loftdrifta | 19. Skjul (Skal byttes ut med eit fjosi 2012) |
| 8. Erstrandstua, Kafé og motekoaler (Trønderlån) | 20. Auneburet |
| 9. Askjengjelestaburet | |
| 10. Båtskott (gammelt båtbyggerverksted) | |
| 11. Båtbyggeriet | |
| 12. Nidarosnaustet | |
| 13. Nynaustet (overnatting i 2. etg.) | |

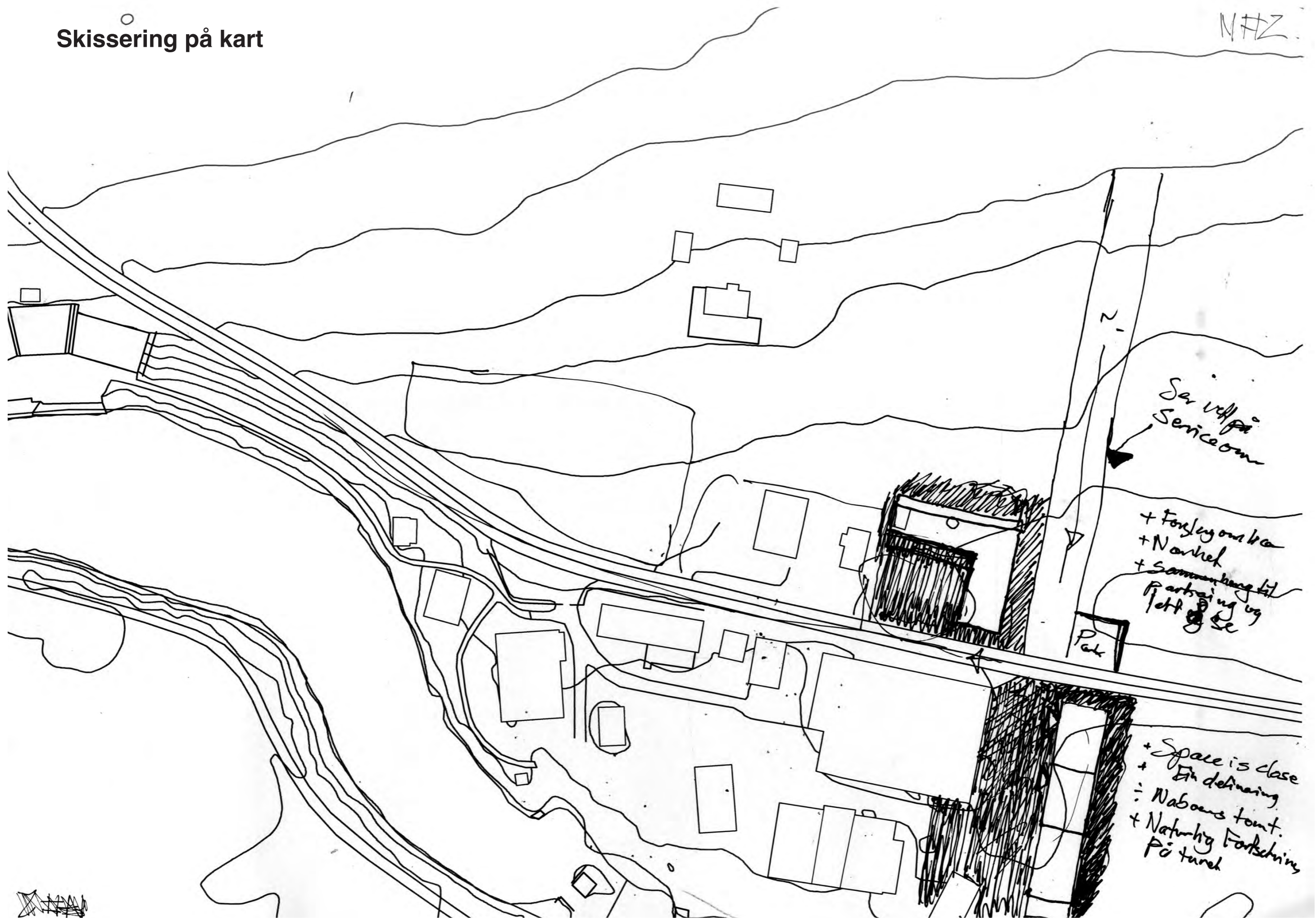
Nytt båtmagasin på Stadsbygd
Museet Kystens Arv

Situasjonsplan

skala 1:200

Skissering på kart

NH2

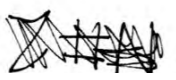


Ser vill på
Serviceom

- + Foklög om bra
- + Narkel
- + Sammanhang till
Parkering och
Pett & Se

Park

- + Space is close
- + En delning
- = Naboens tomt.
- + Naturlig Fokschning
På turet





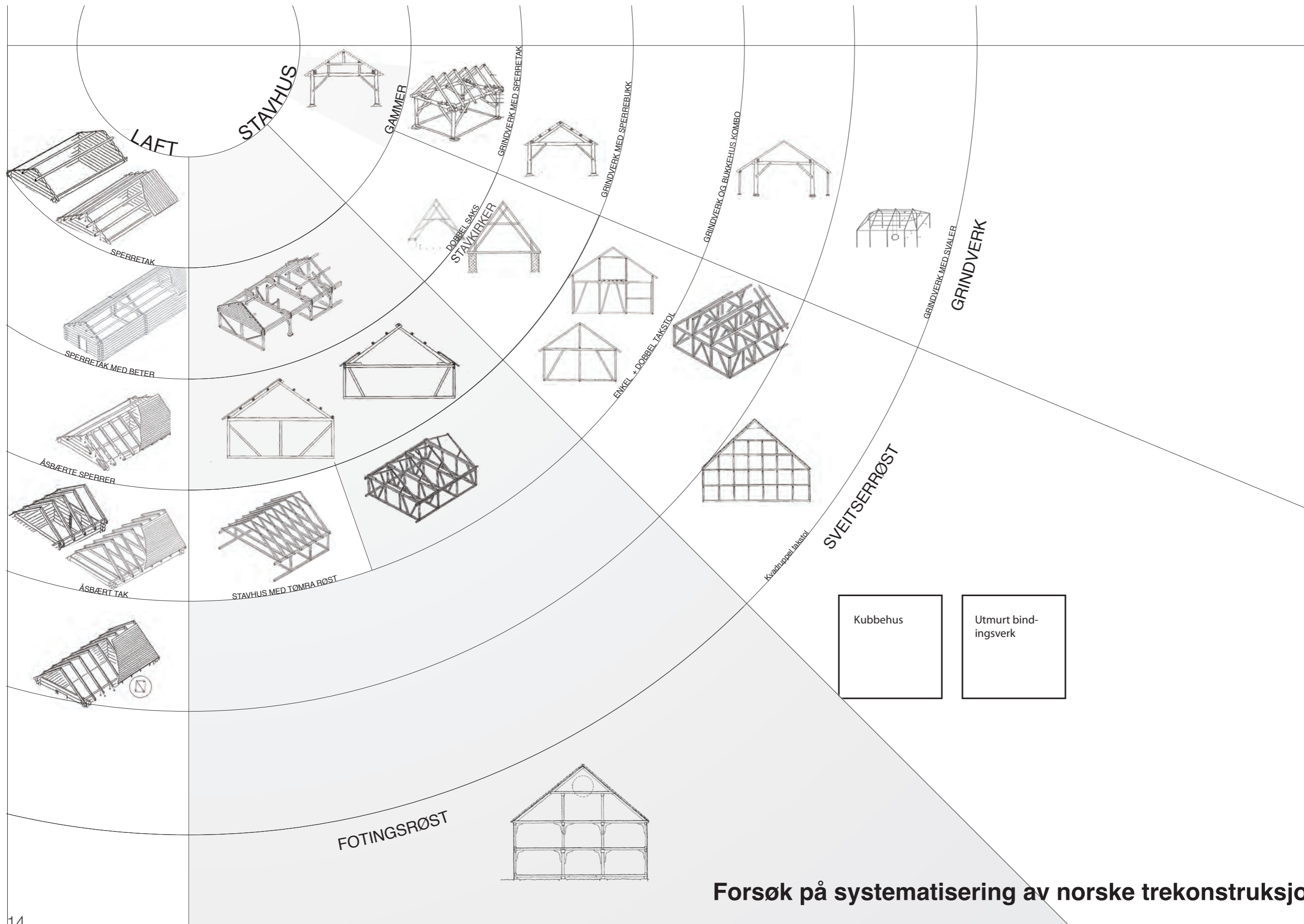
APKOMST

- 1. - ANNOENSERING
- 2. - PARKERING
- 3. - OKG. INTERNS

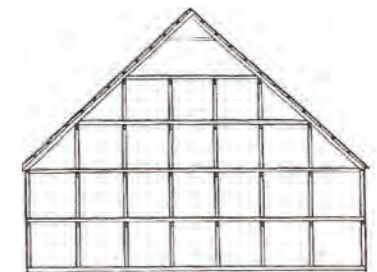
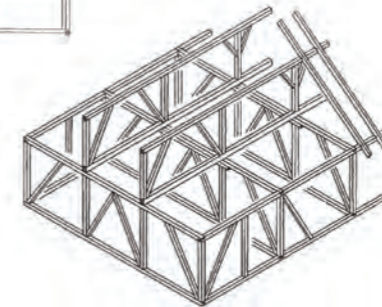
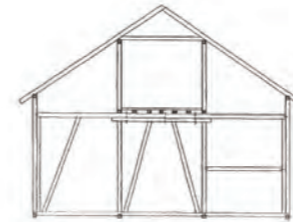
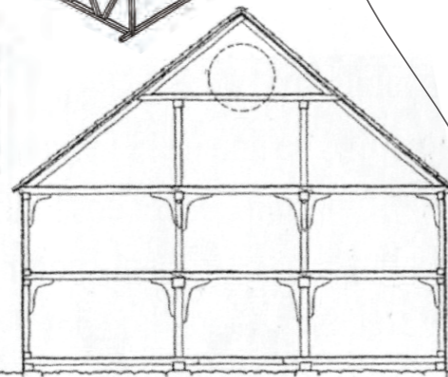
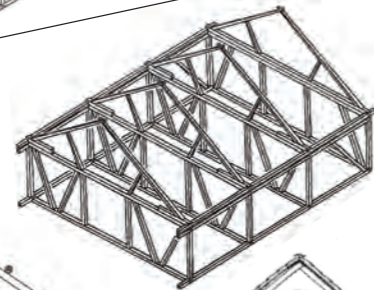
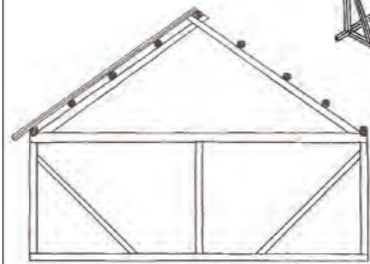
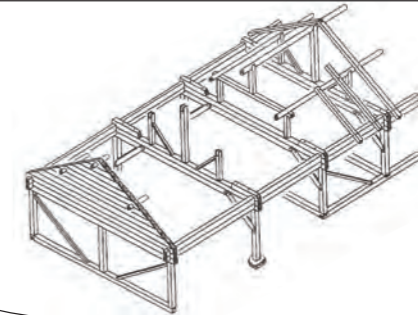
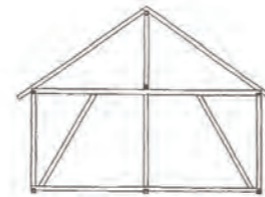
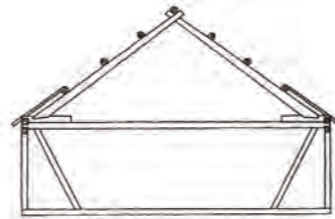
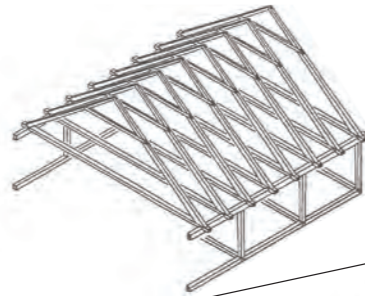
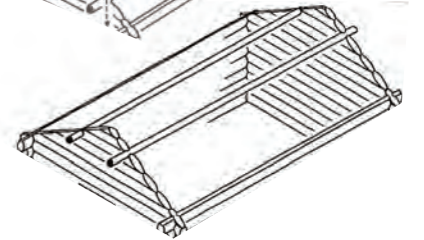
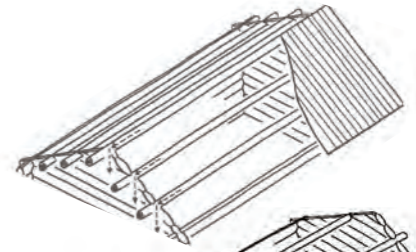
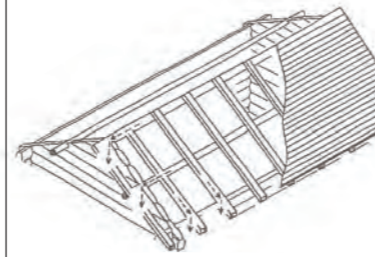
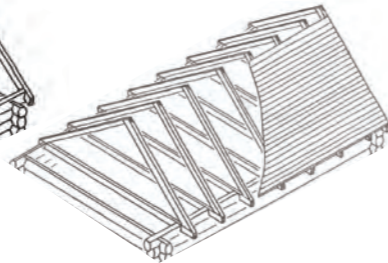
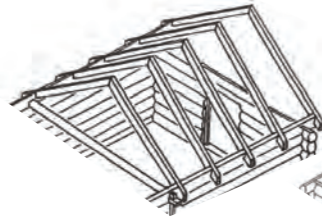
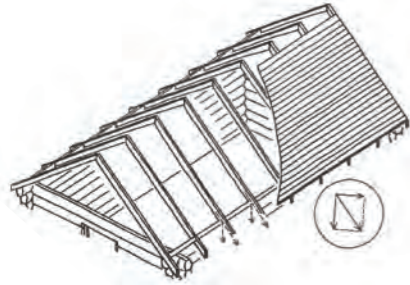
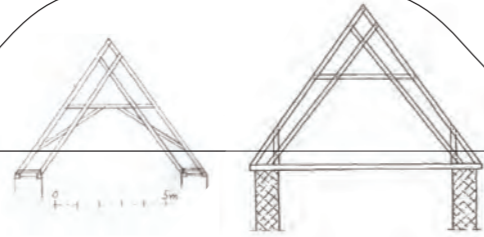
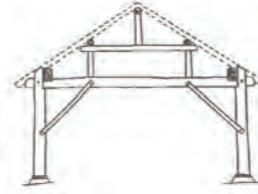
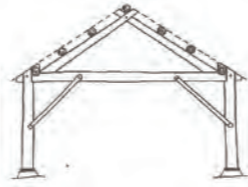
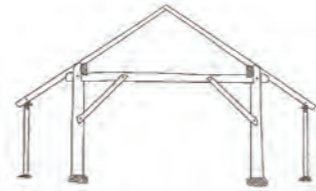
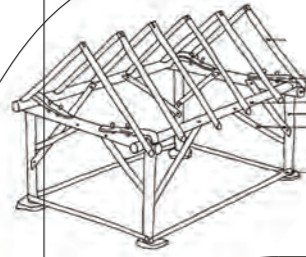
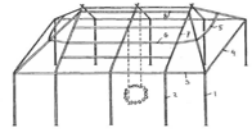
Ljebstad. Solbu
 Kulle opp.
 Alltre
 stalle (4x4)
 Ringve
 Ansluttning

Flora v. side





Forsøk på systematisering av norske trekonstruksjoner



SPERRETAK

KOMBO - ÅSTAK / SPERRETAK

ÅSTAK

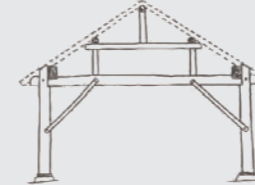
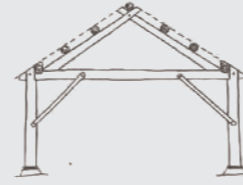
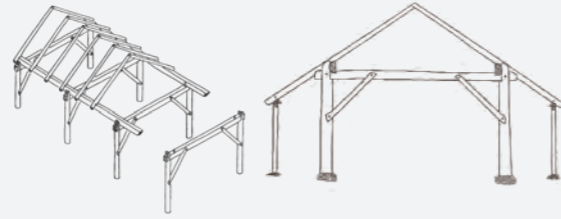
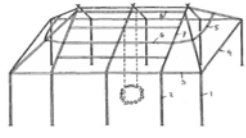
Sperrebært uten bete

Sperrer med bete

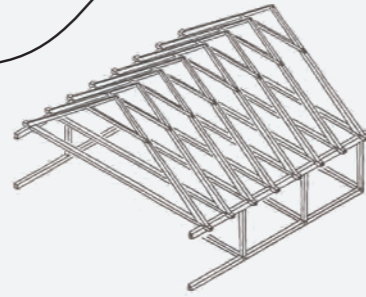
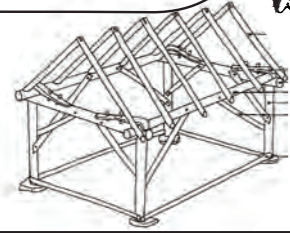
Sperrebærte åser

Åsbærte sperrer

Gammer

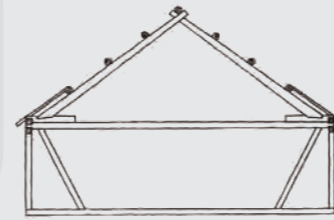


Grindebygg



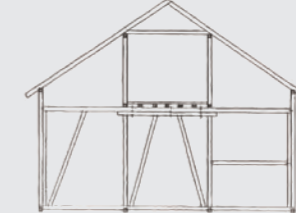
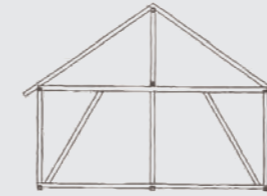
Dobbel sperre (saks)

Stav



Stavline

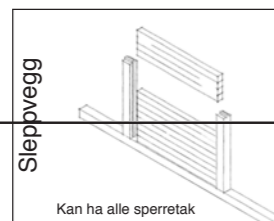
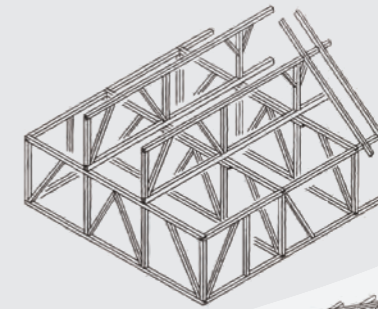
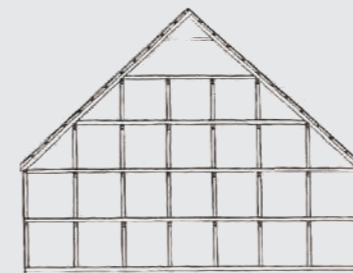
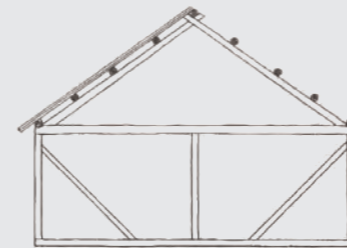
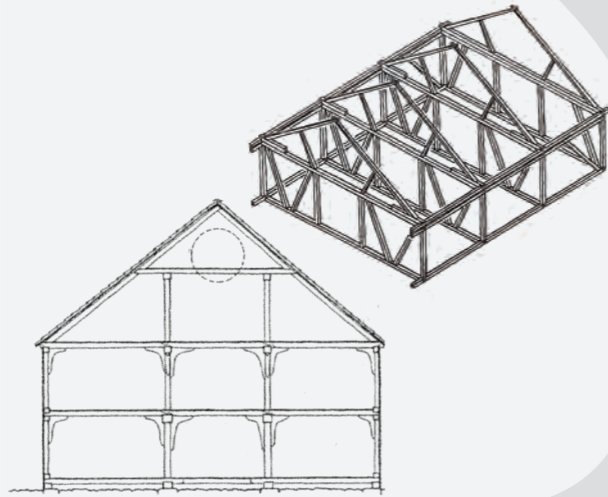
Sveitserrøst
Sperrer er understøttet av takstoler som fører tyngden av tak og gulv nedover i bygget. Sperreren presser dermed ikke veggen utover. En takstol kan minne om en ås men en ås fører ikke krefter nedover i bygget undervegs, kun i endene.



RAMMEKONSTRUKSJONER

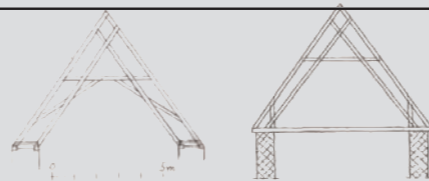
Stavkonstruksjoner

Undersøtting



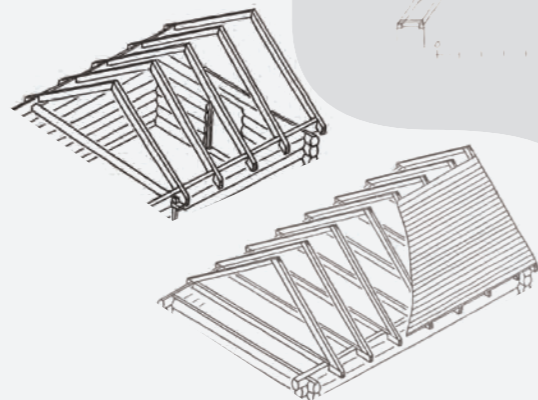
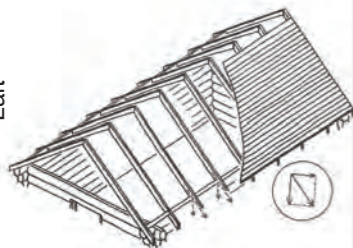
Kan ha alle sperretak

Mur

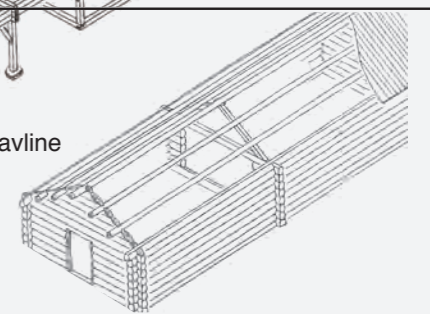
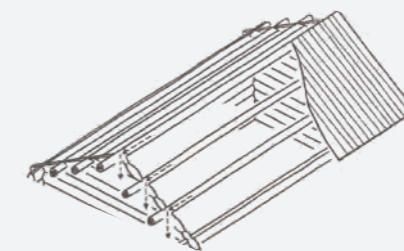
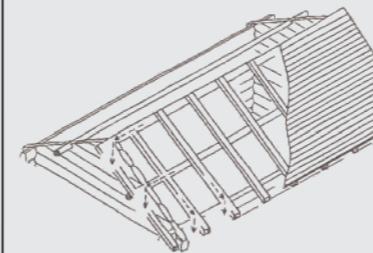


MASSIVE KONSTRUKSJONER

Laft



Bukkehus
- mellomting av Grindehus og stavline



SPERRETAK

KOMBO - ÅSTAK / SPERRETAK

ÅSTAK

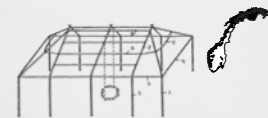
Sperrebært uten bete

Sperrer med bete

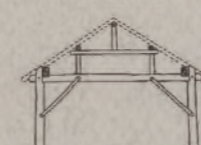
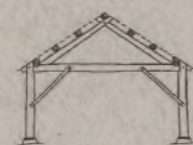
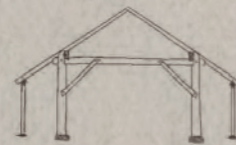
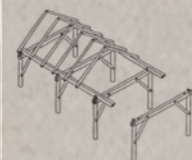
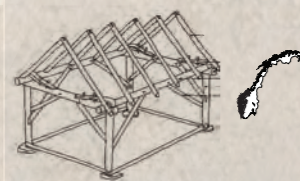
Sperrebærte åser

Åsbærte sperrer

Gammer

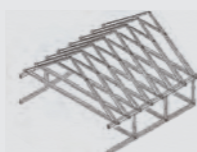


Grindebygg



Dobbel sperre (saks)

Stav

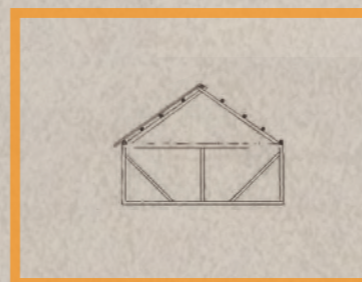
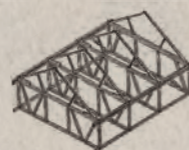
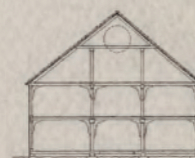


Stavline

RAMMEKONSTRUKSJONER

Stavkonstruksjoner

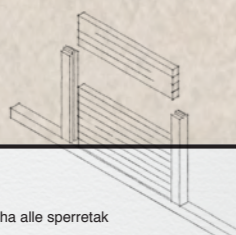
Undersøtting



Sveitserrøst

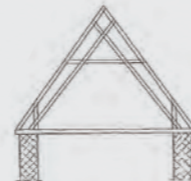
Sperrer er understøttet av takstoler som fører tyngden av tak og golv nedover i bygget. Sperreren presser dermed ikke veggene utover. En takstol kan minne om en ås men en ås fører ikke krefter nedover i bygget undervegs, kun i endene.

Sleppvegg



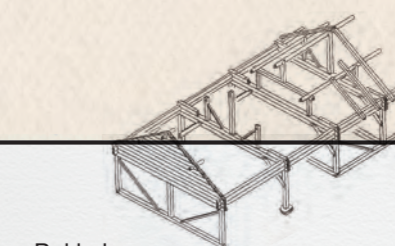
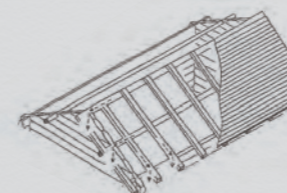
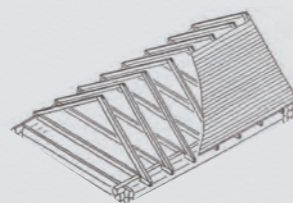
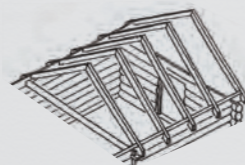
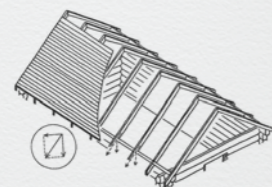
Kan ha alle sperretak

Mur

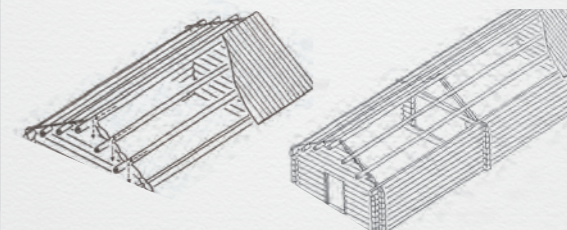


MASSIVE KONSTRUKSJONER

Laft



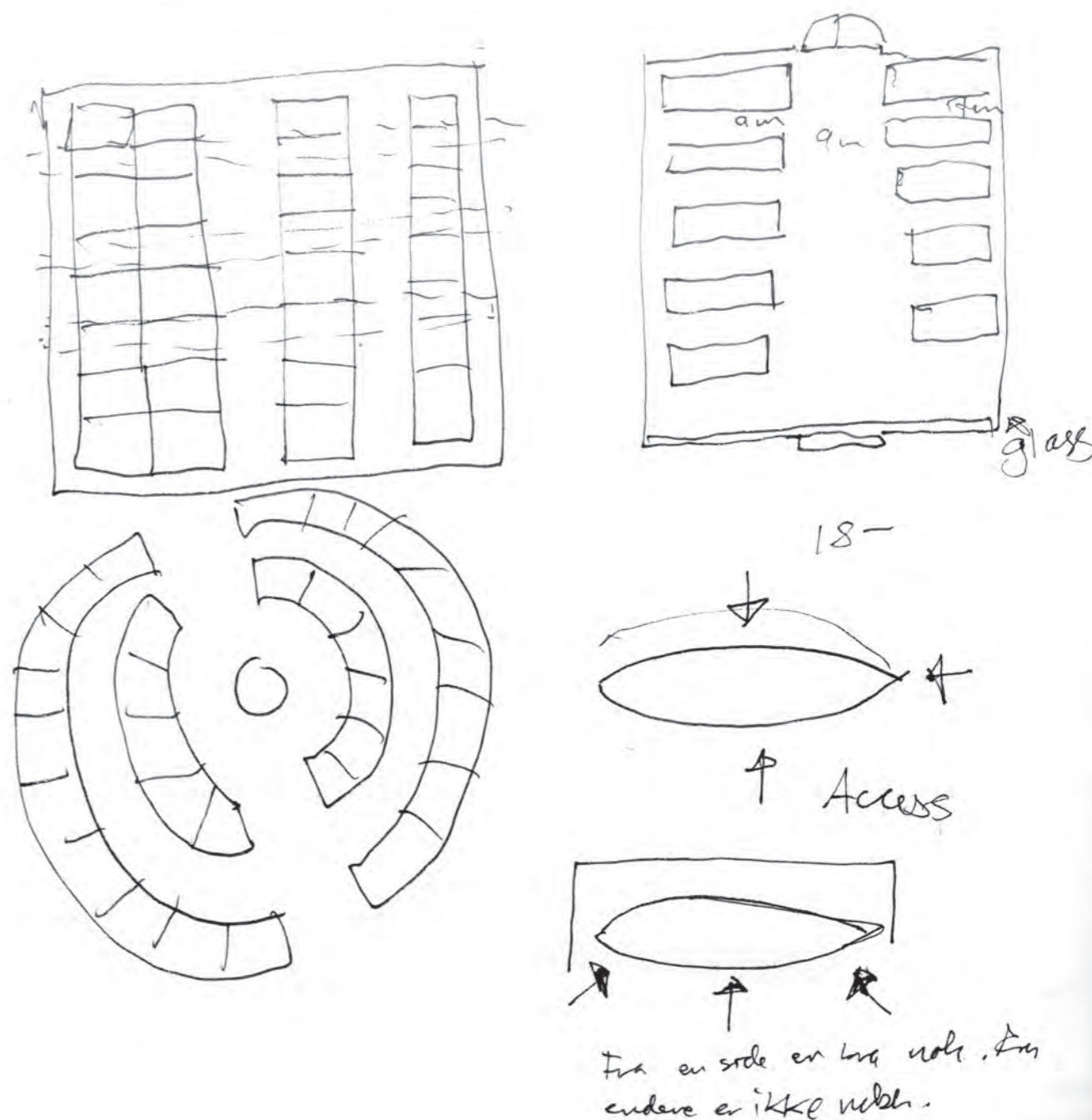
Bukkehus
- hybrid av Grindehus og stavline



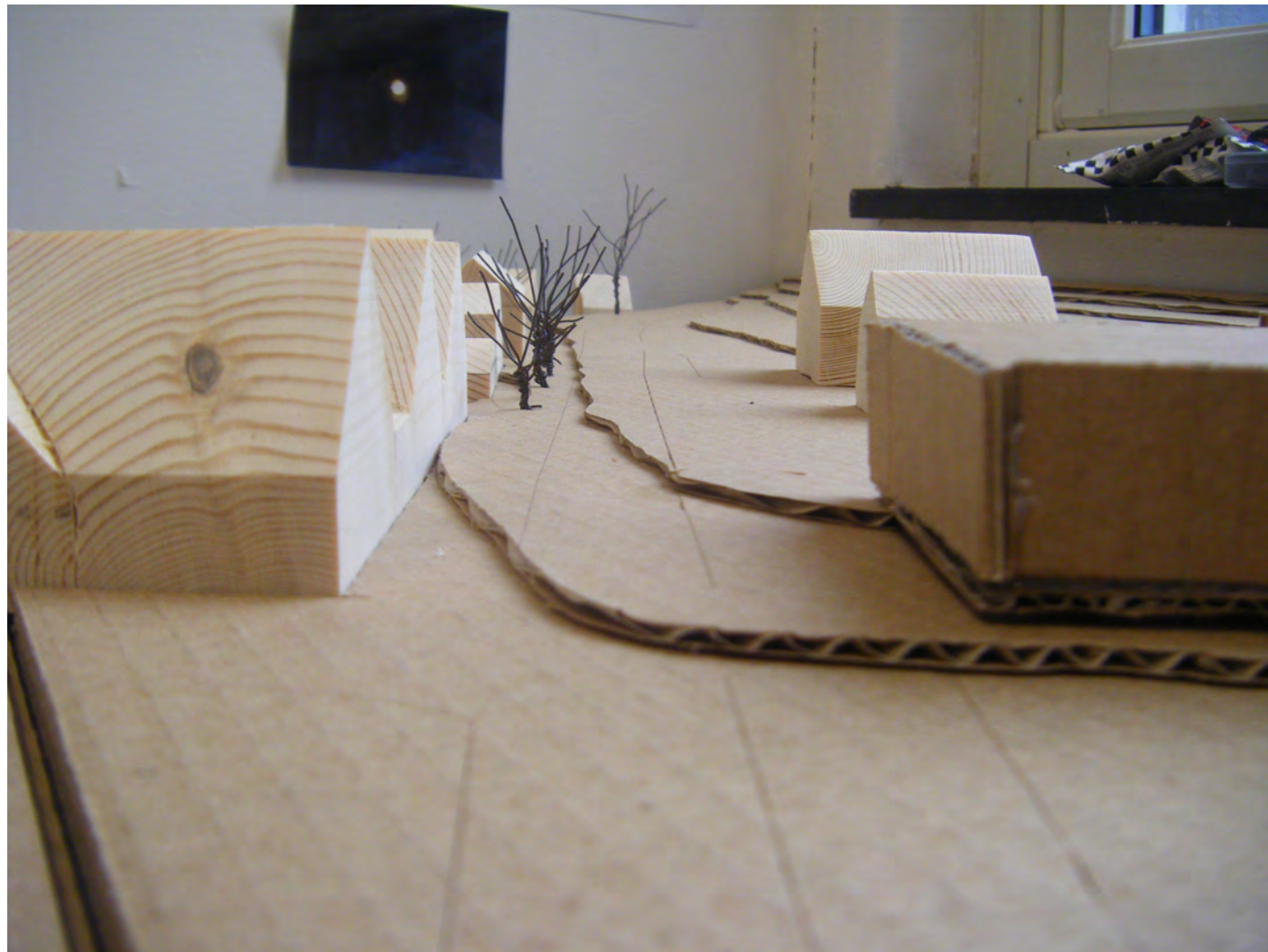
Logistikk

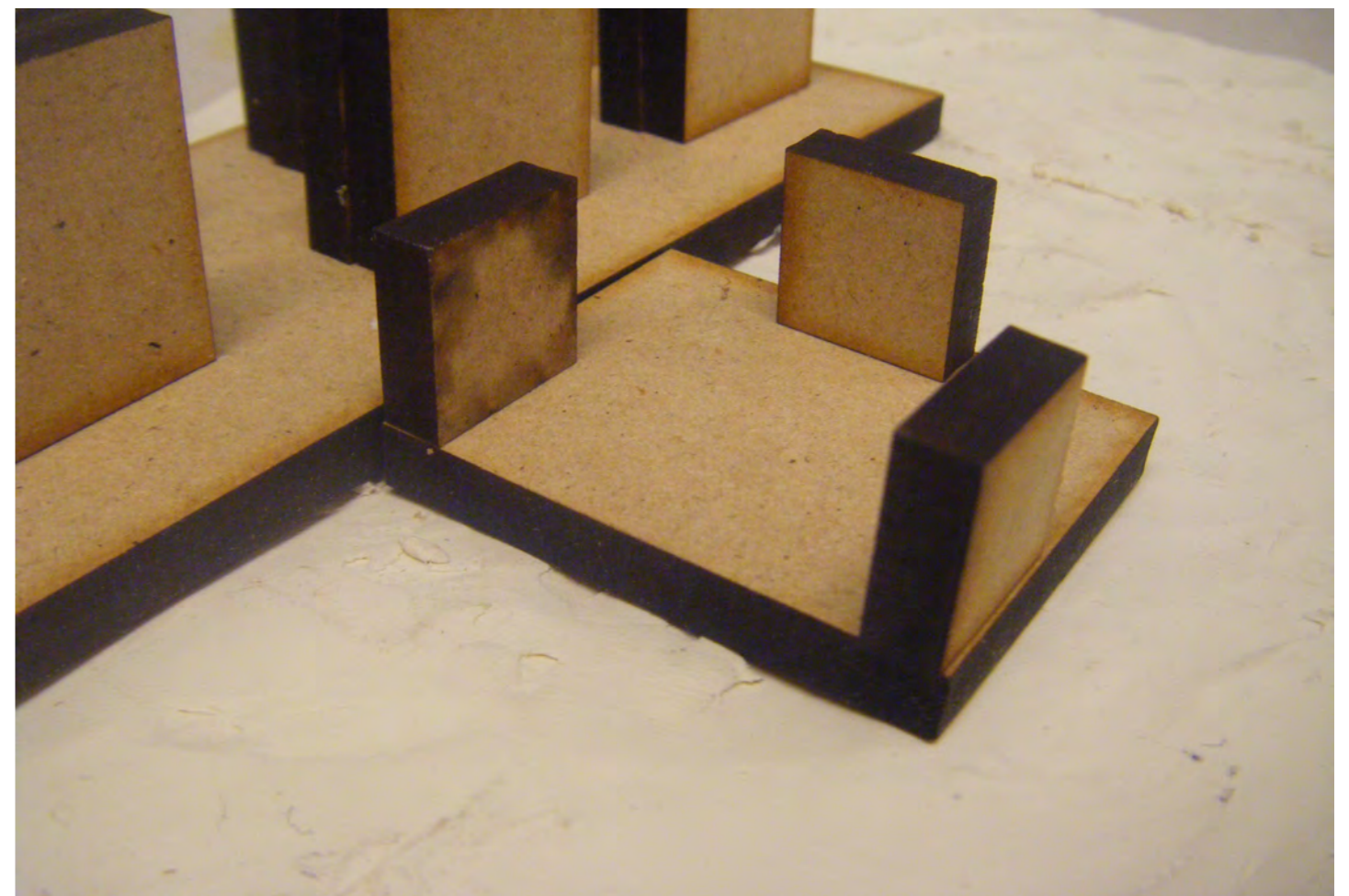
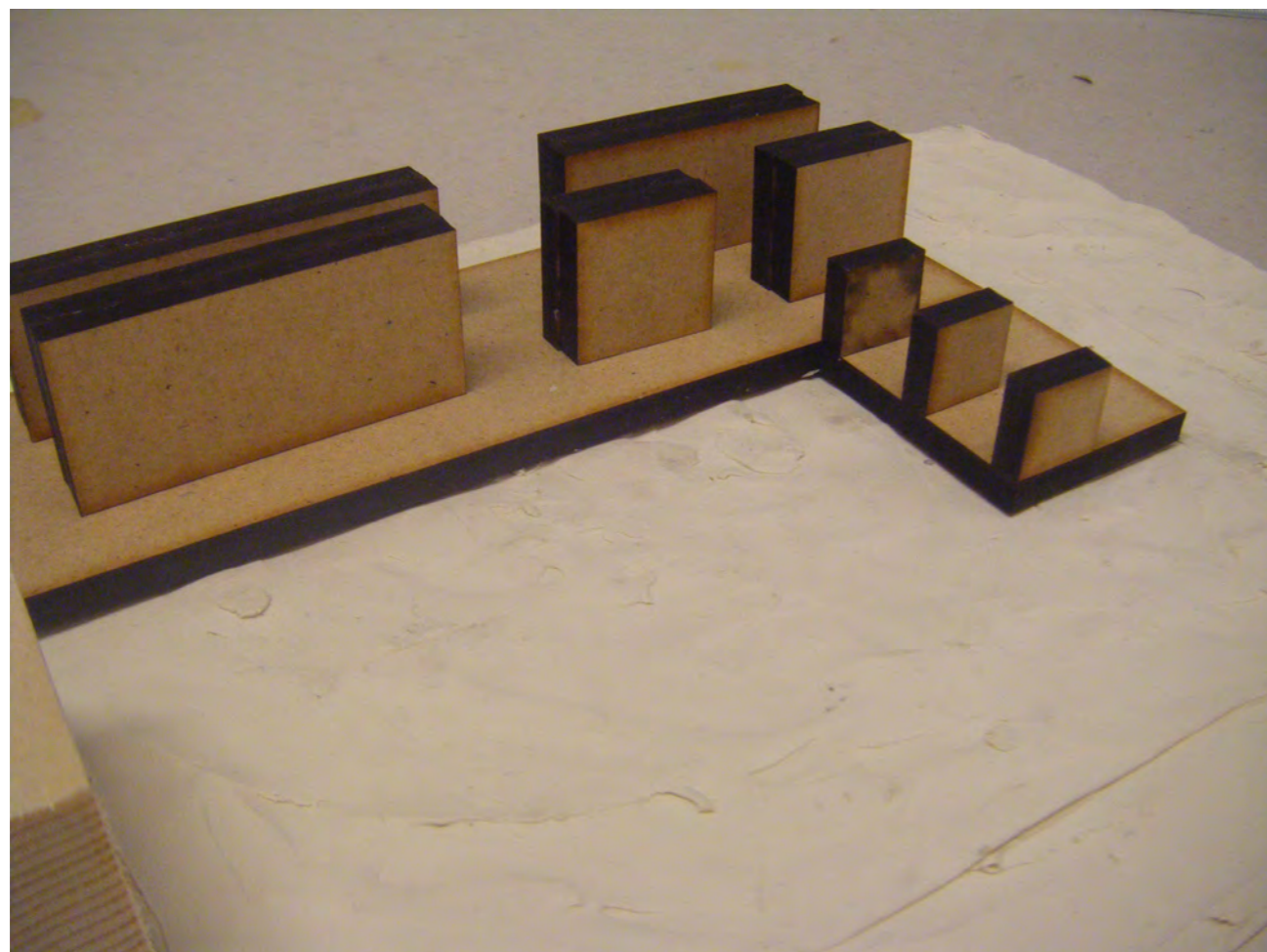
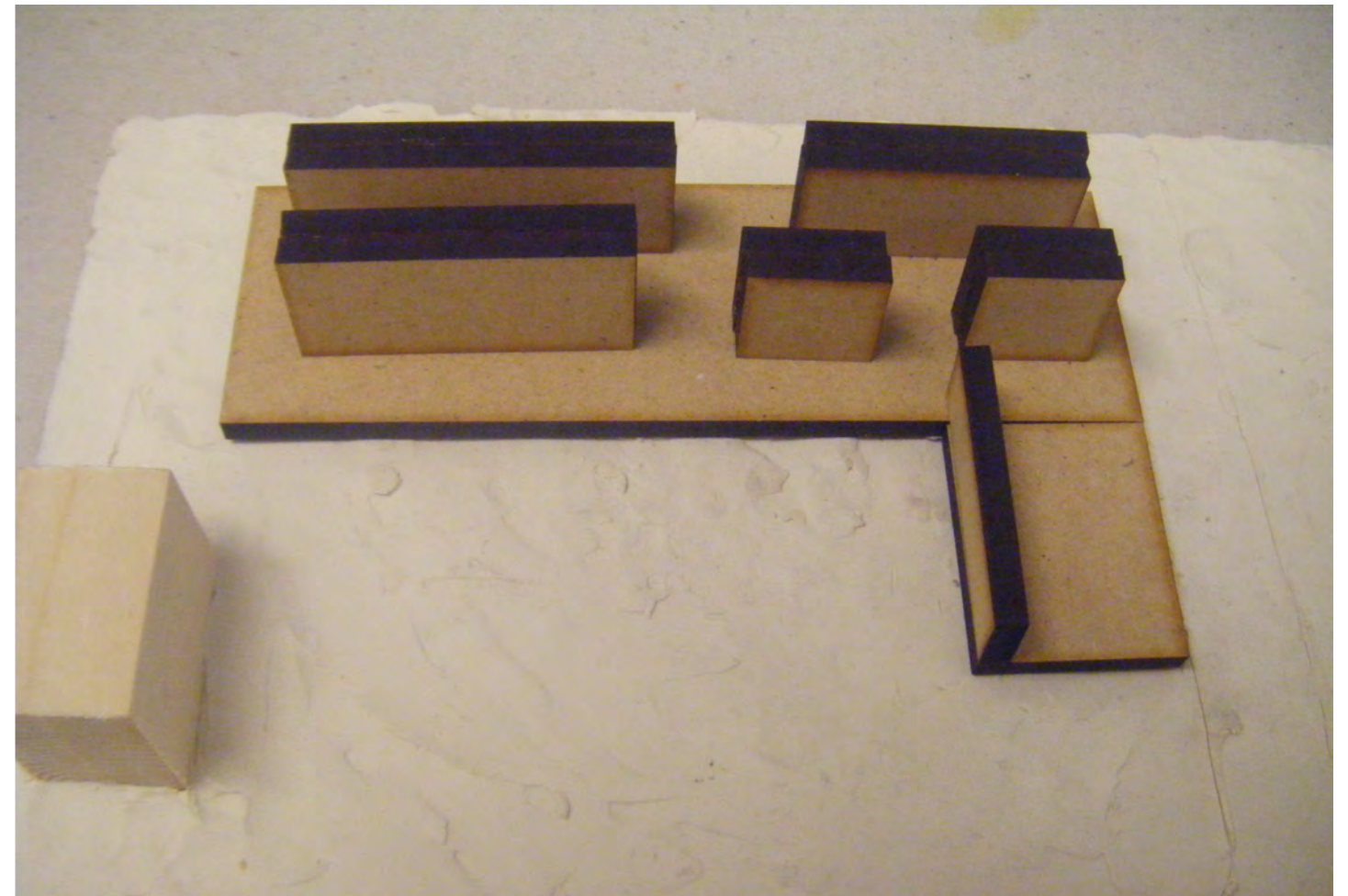
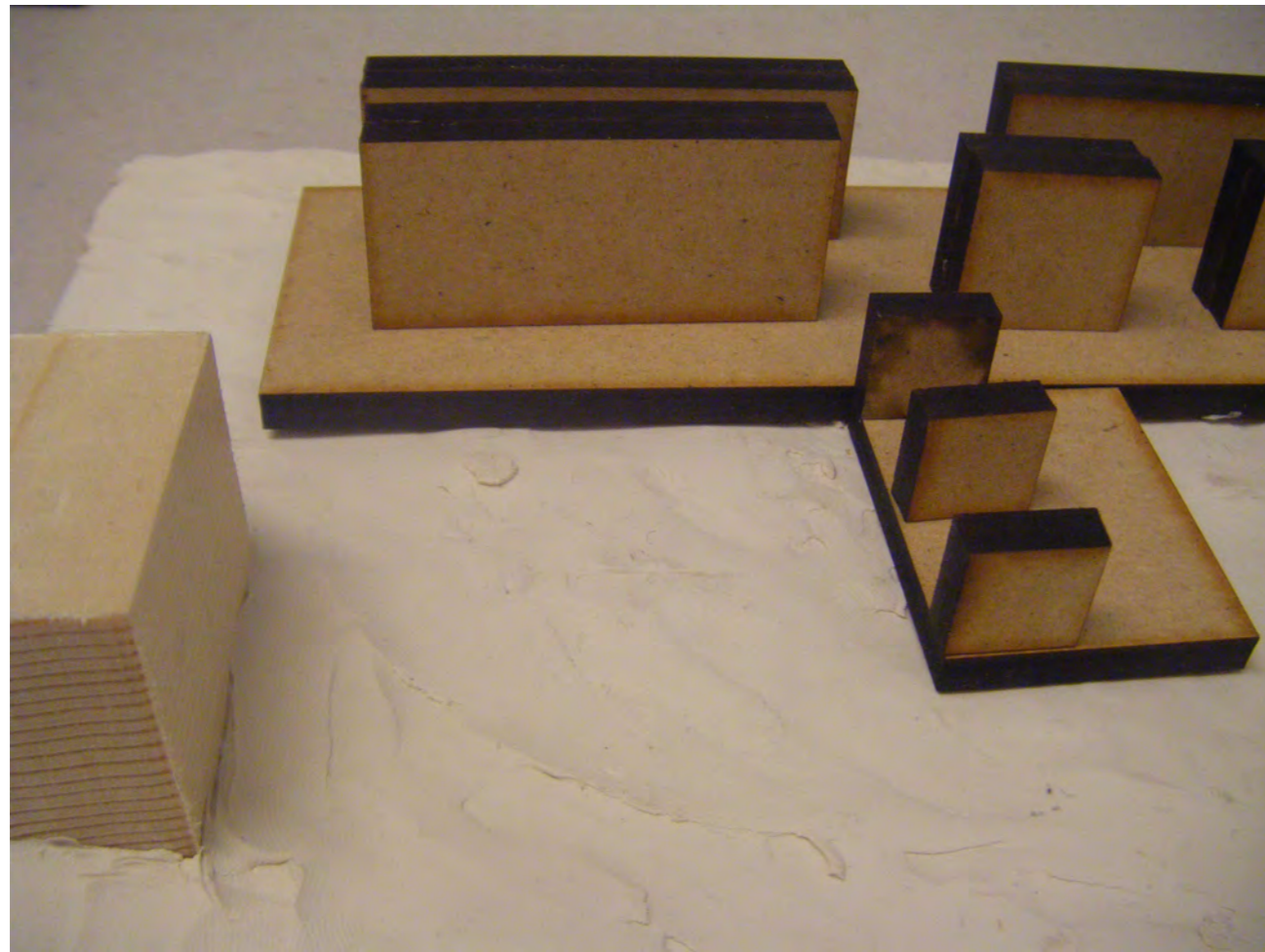
	Her kan det inn traverskran om nødvendig		Med 3 båter oppå kvarandre, korleis får ein tak i den øvste båten? Det same spm. gjeld og med to stabla båter.	
	Stavline 1	Sveitserrøst - 1 takstol	Sveitserrøst - 2 takstoler	Sveitserrøst
Enkelthyller 2m				
Enkelthyller 2m doble				
Enkelthyller 2m dobbel takhøyde øker høyden for å kunne stable 3 i høyden				
Inngang langsida Muliggjør innmating fra kortside.				
Inngang langsida Rett innkjøring				

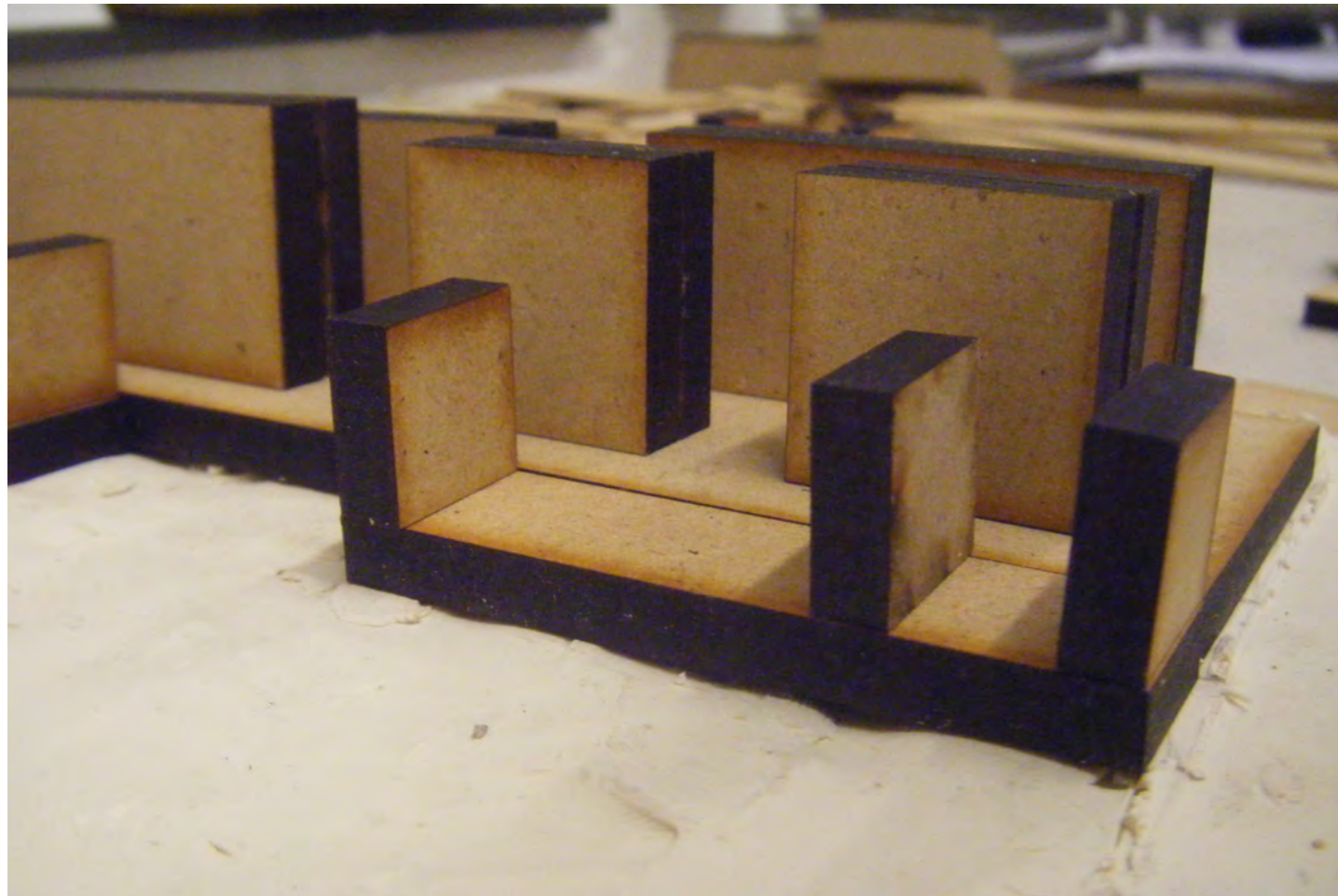
Å skulle bygge i en gammel trekonstruksjon krever en forståelse for hva som passer inn i ulike konstruksjoner. Det meste går, men ikke alt er like praktisk. Lenge er jeg opptatt av å få inn en traverskran, men etter mer undersøkelse finner jeg ut at dette ikke er nødvendig.



Bygging av situasjonsmodell

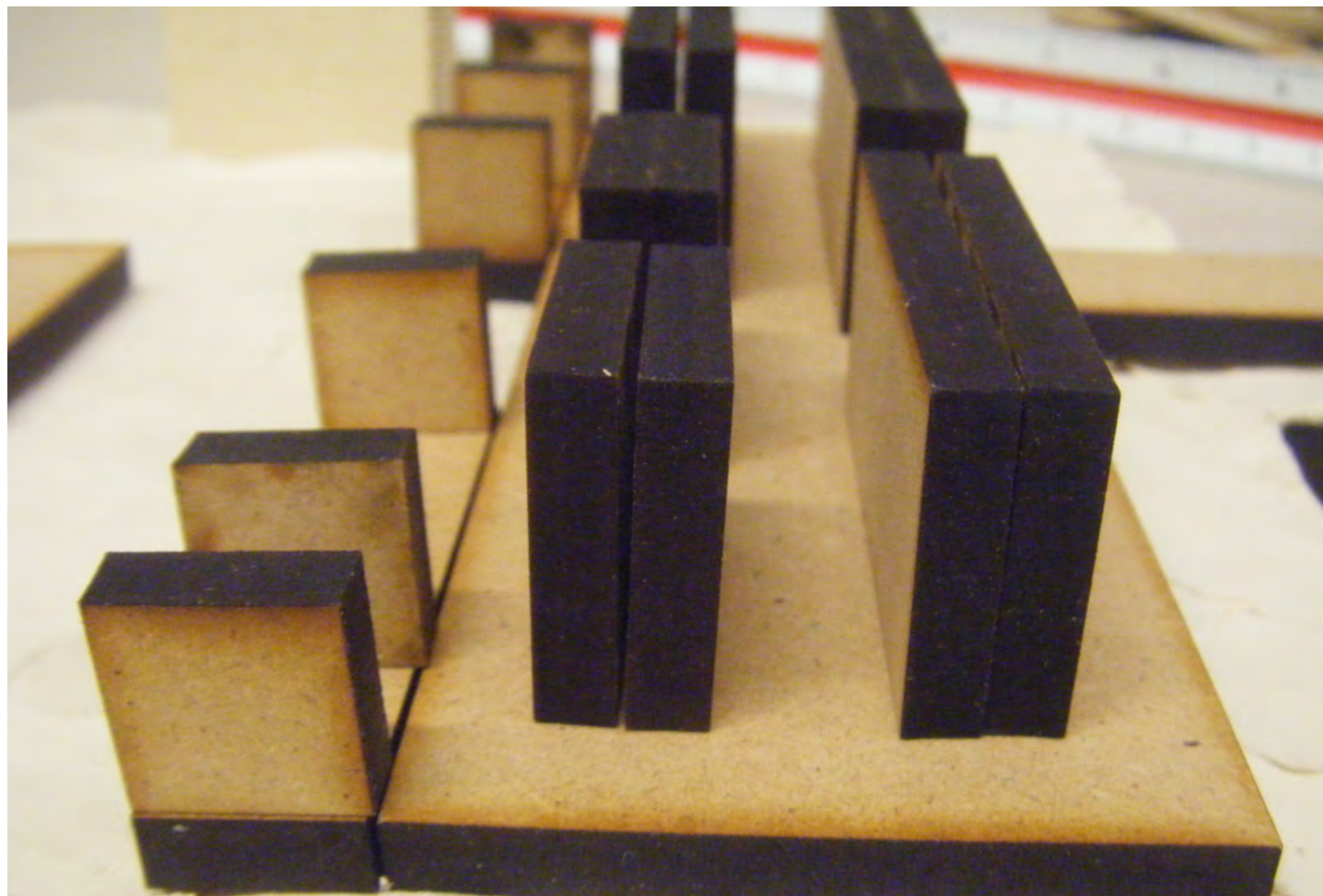






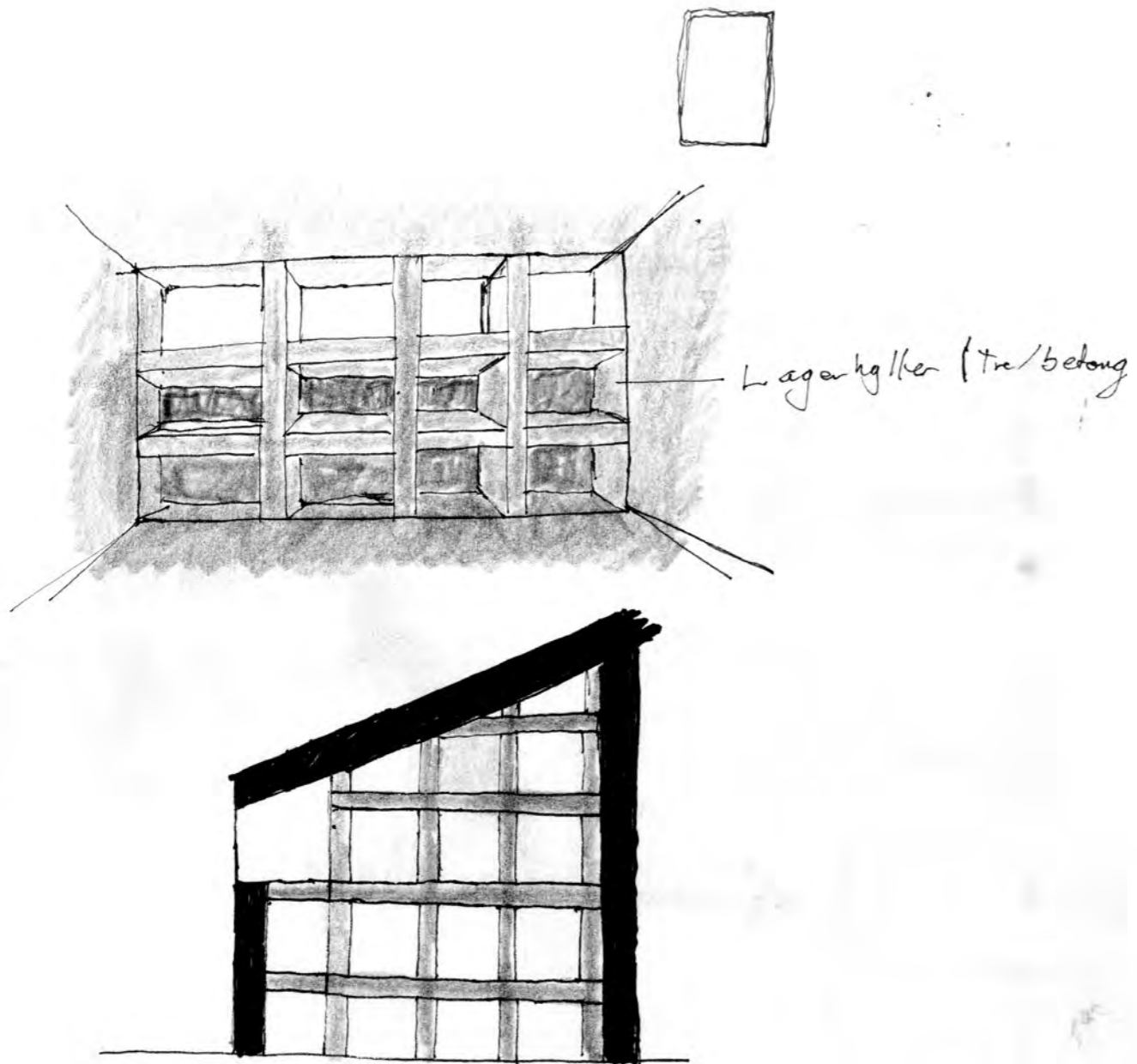
Undersøking av størrelser og volum

Hvor stort blir bygget på tomta? Hvor høyt rager det?

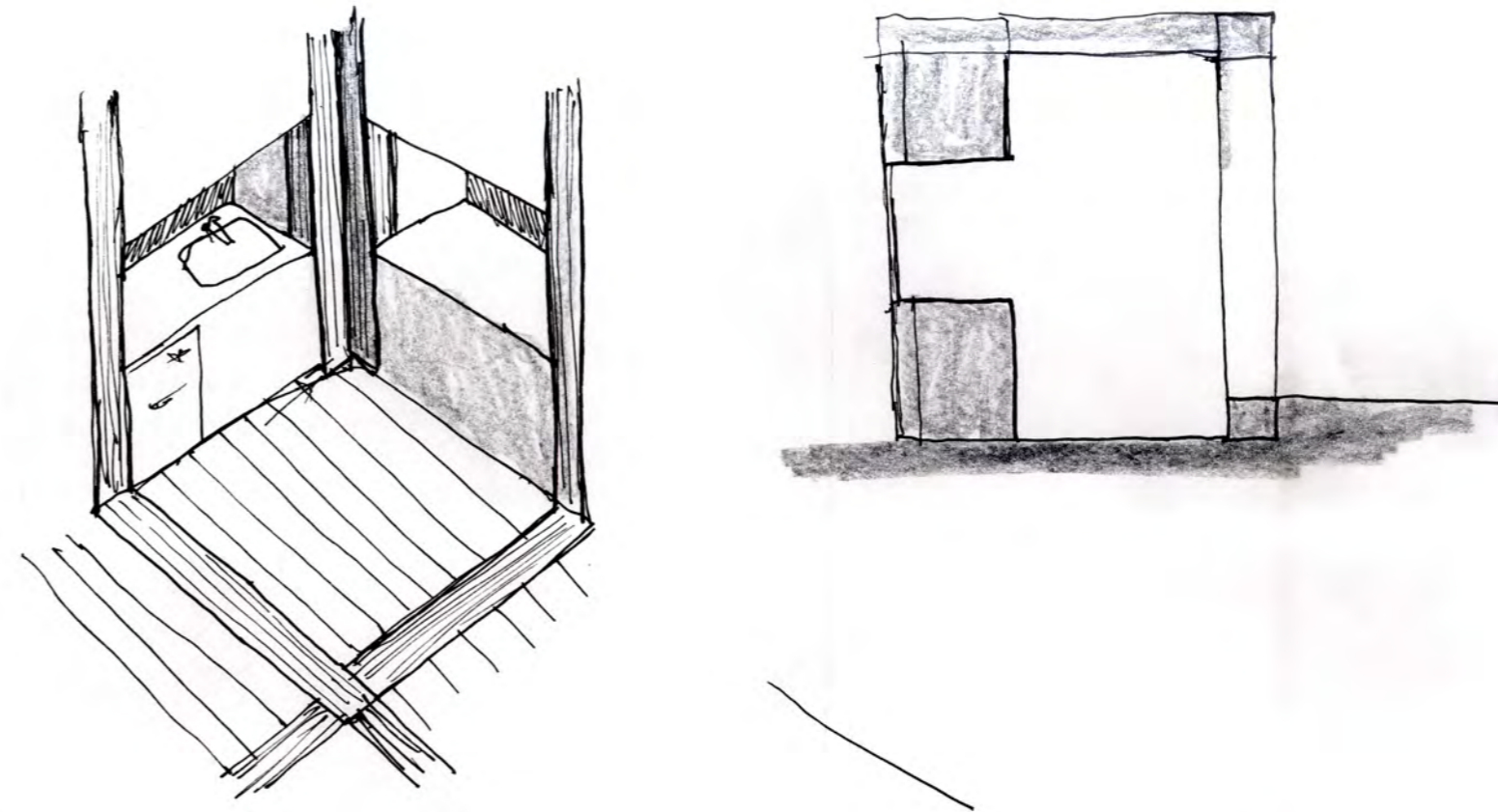


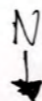
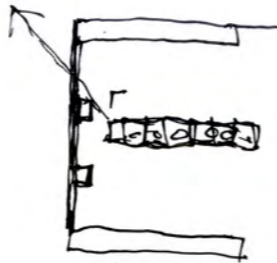
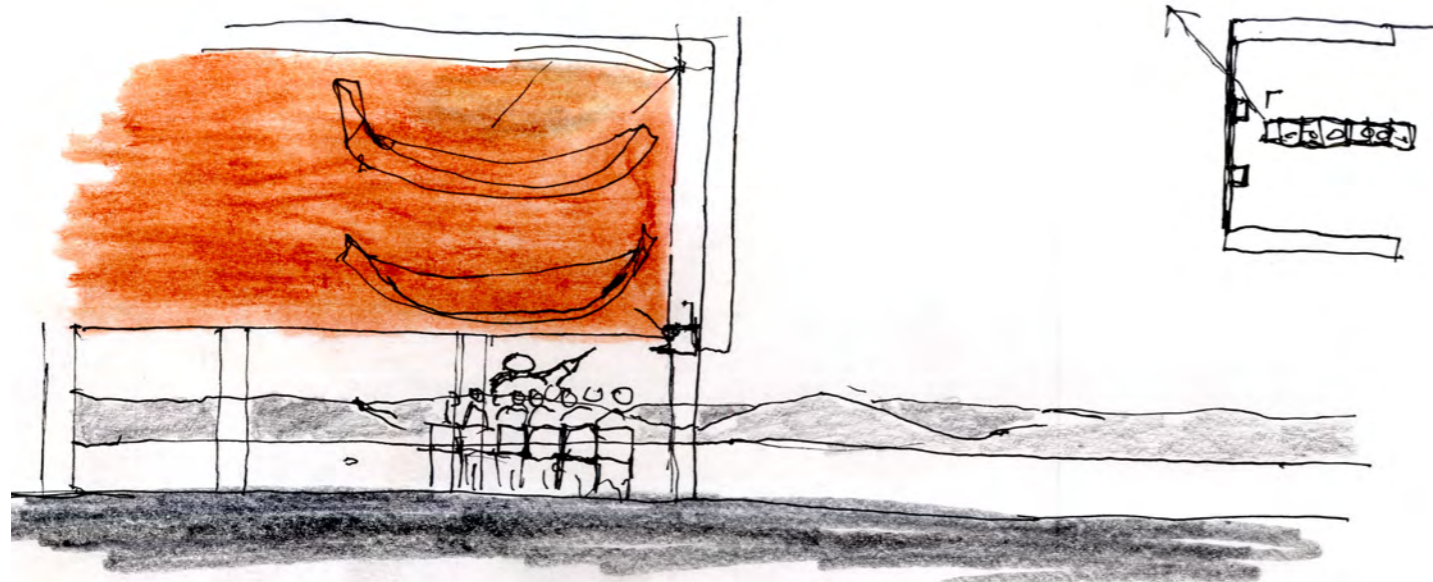
Oppstart skissering

Detalj hyller teknisk i rom med vindu bak



Et lite kjøkken, men god kontakt til til konstruksjonen og lysinnslipp fra ute

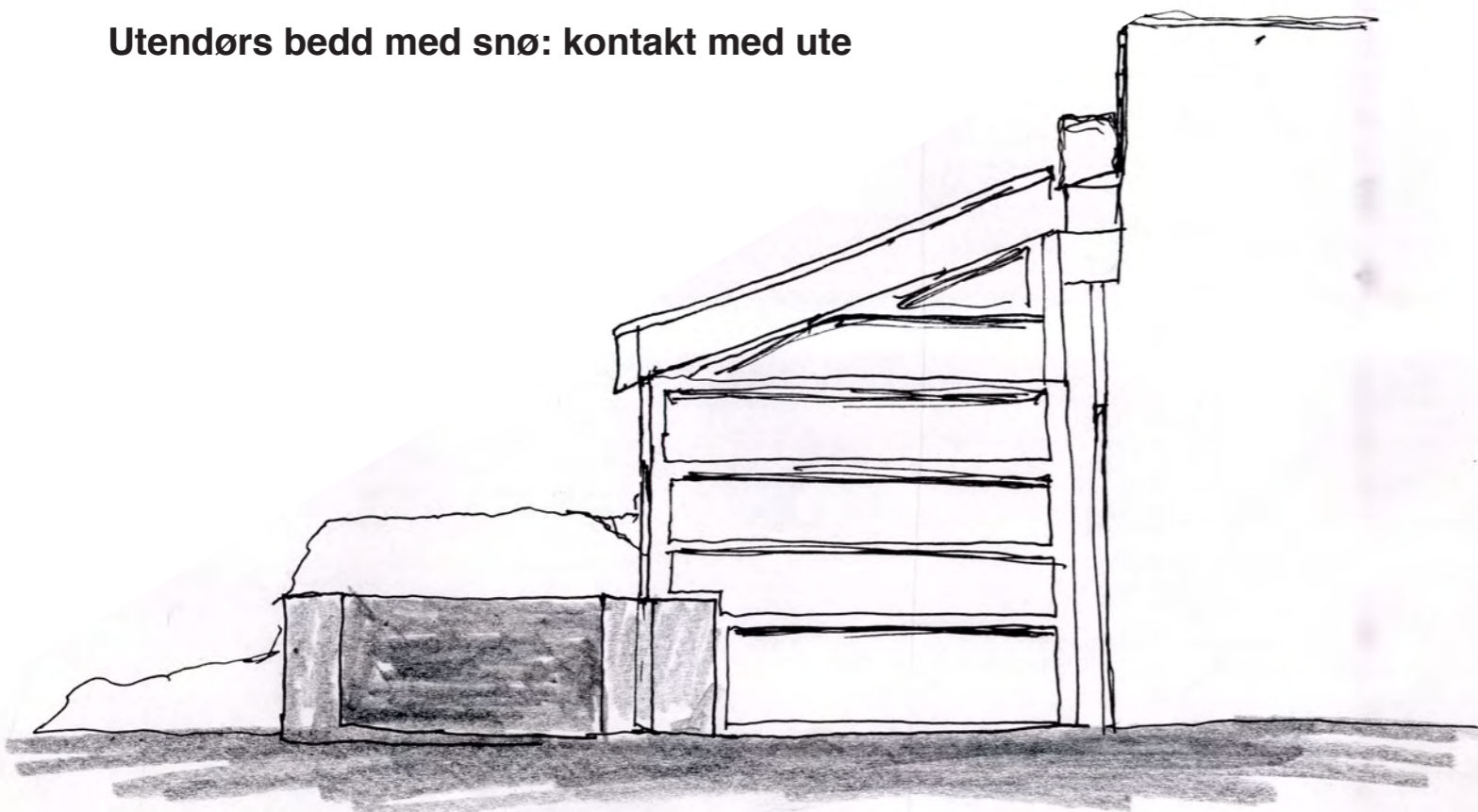




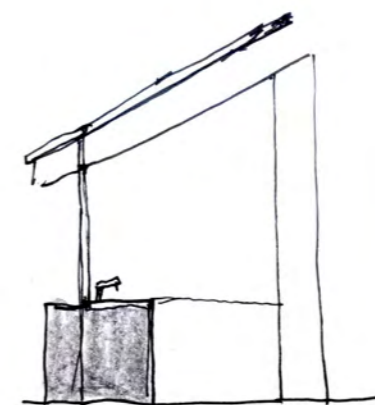
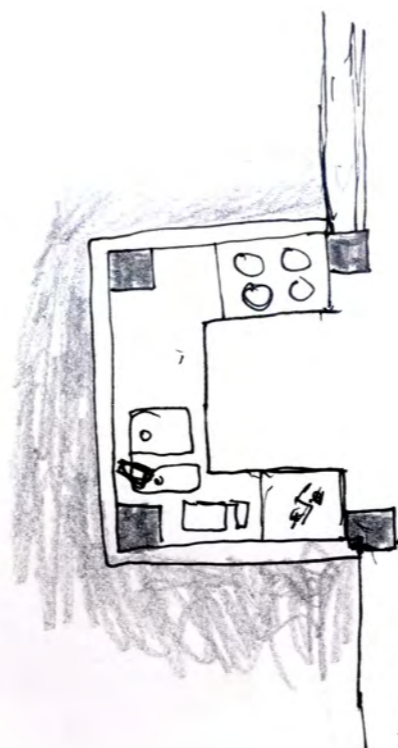
Undervisningsrom der du kan speide utover fjorden

Er det egentlig bra for undervisningsrom? Er det plassmangel?
 - Nei, strengt tatt ikke selv om dette ville vært et pent rom.
 - fene Rom/Inn

Utendørs bedd med snø: kontakt med ute

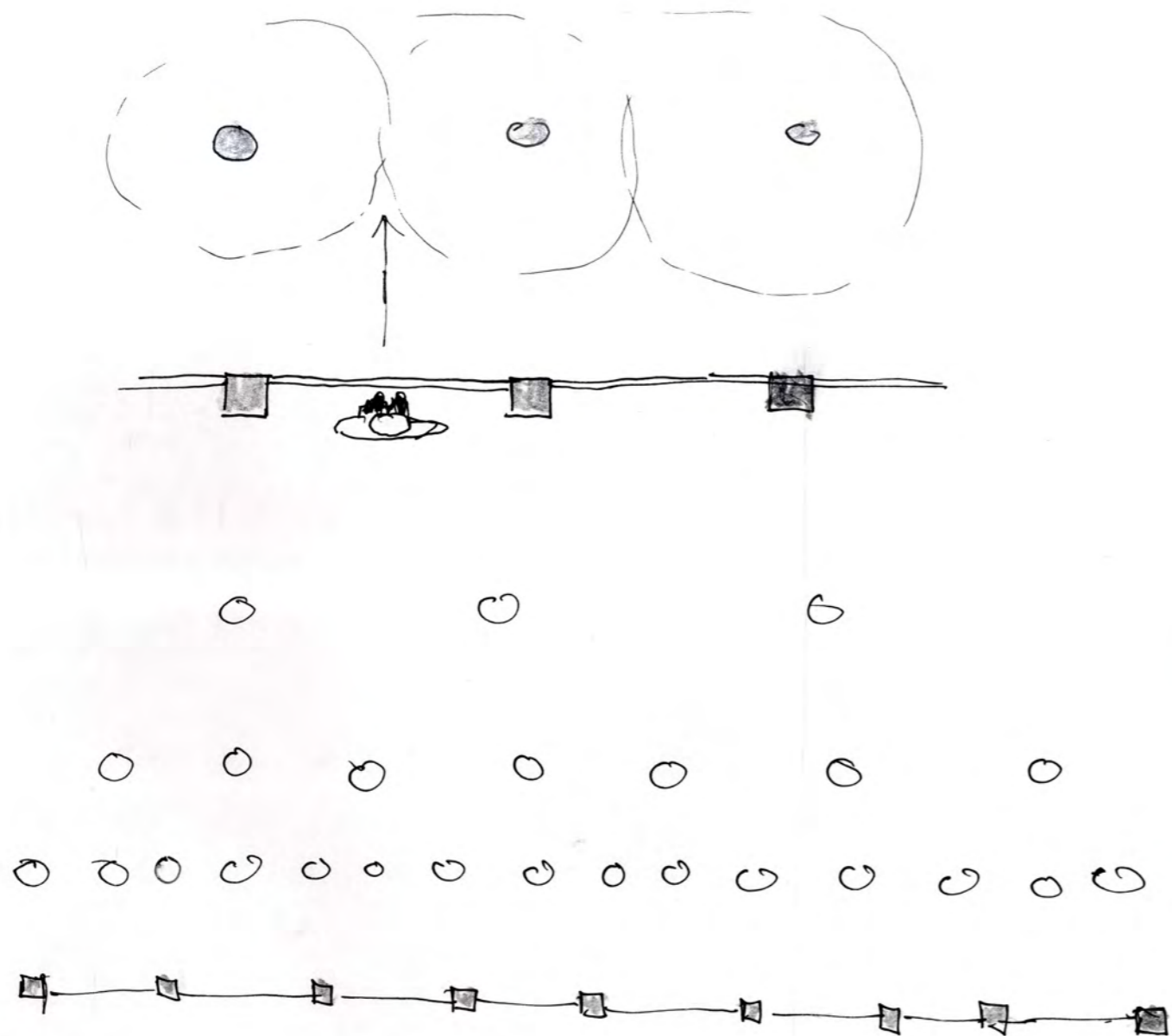


Lage mat eksponert

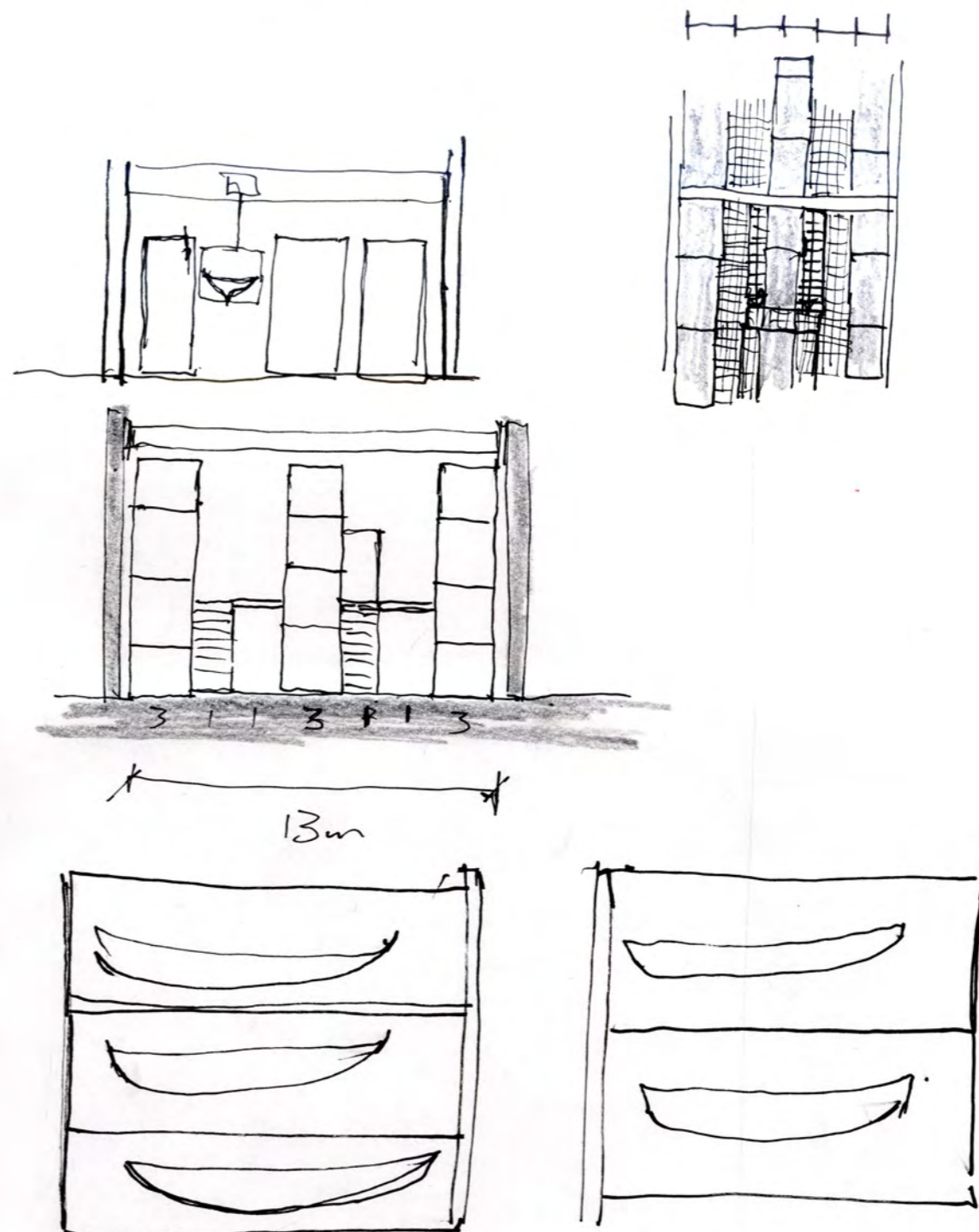


Struktur og utsikt

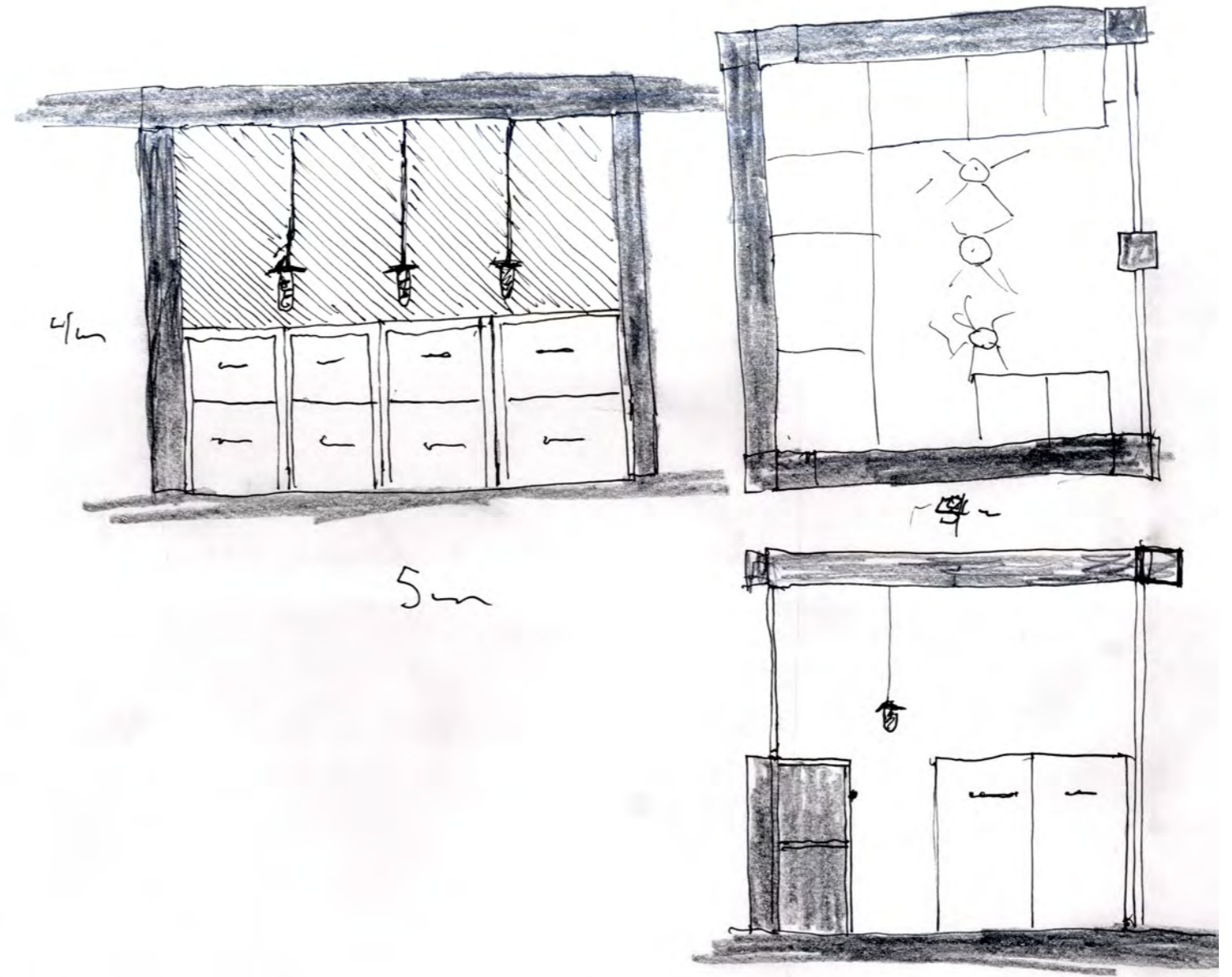
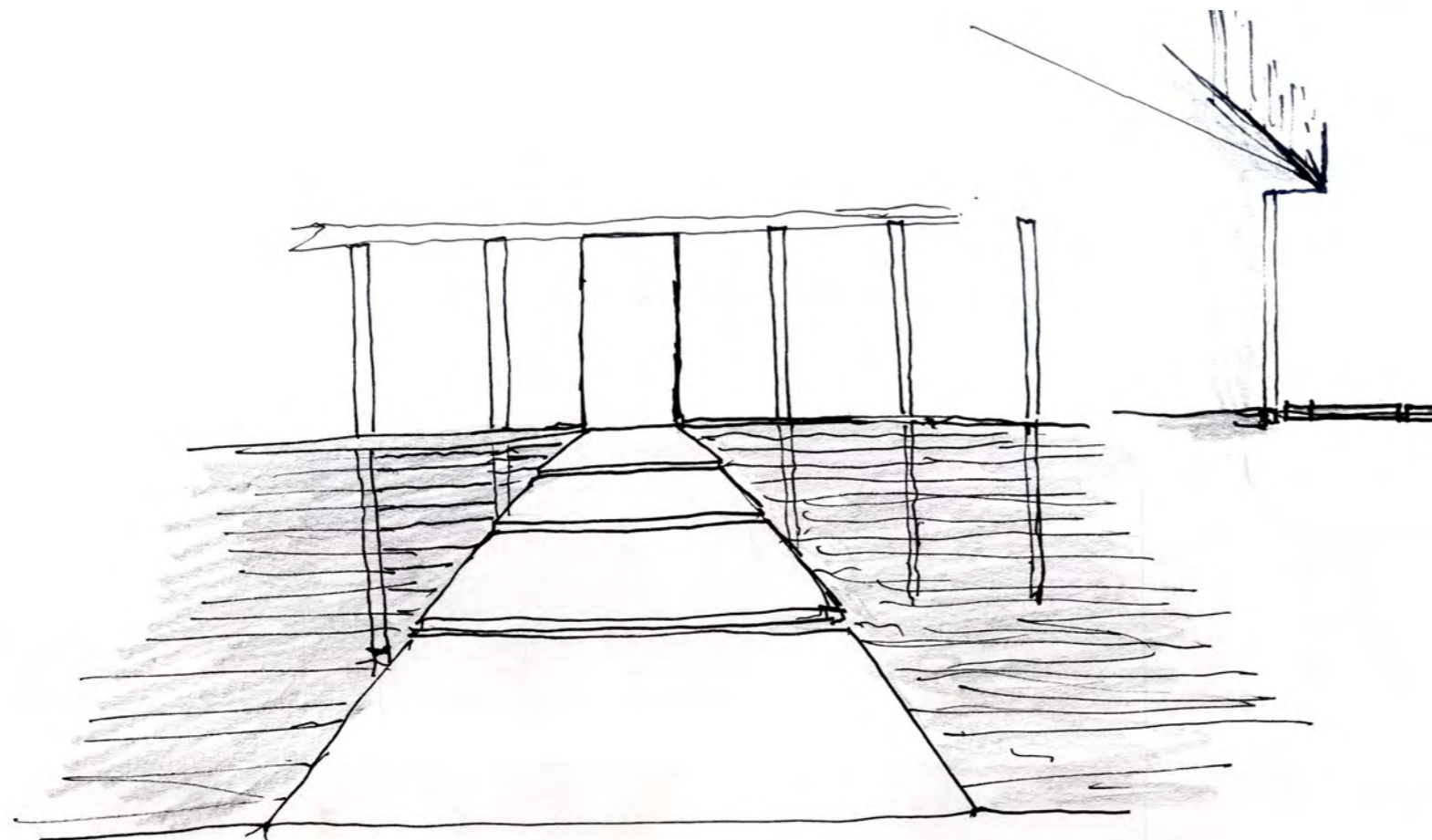
Struktur - sjå oppover bygda.



Heise båt inn - avstand.

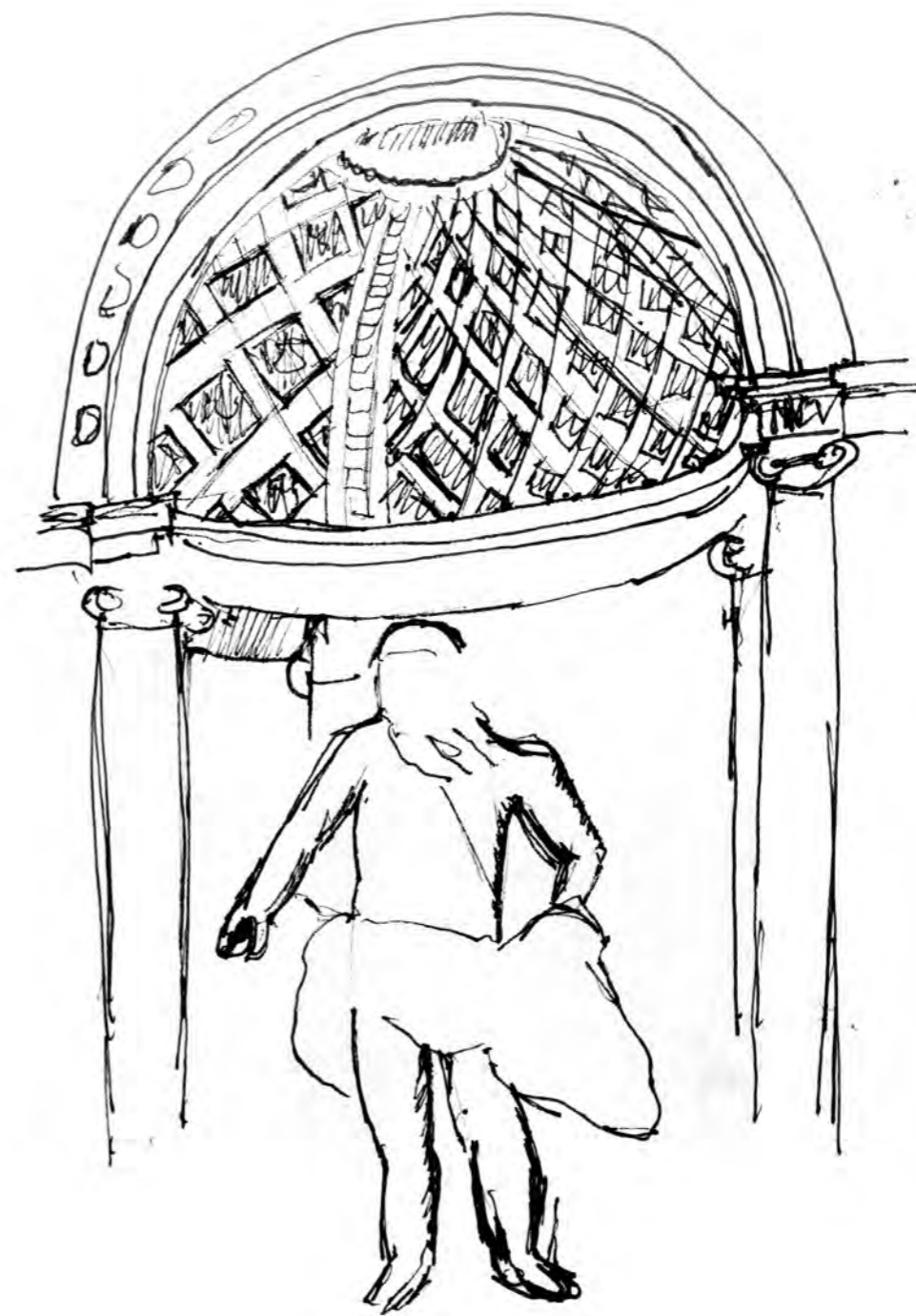


Vannspeil - inngang



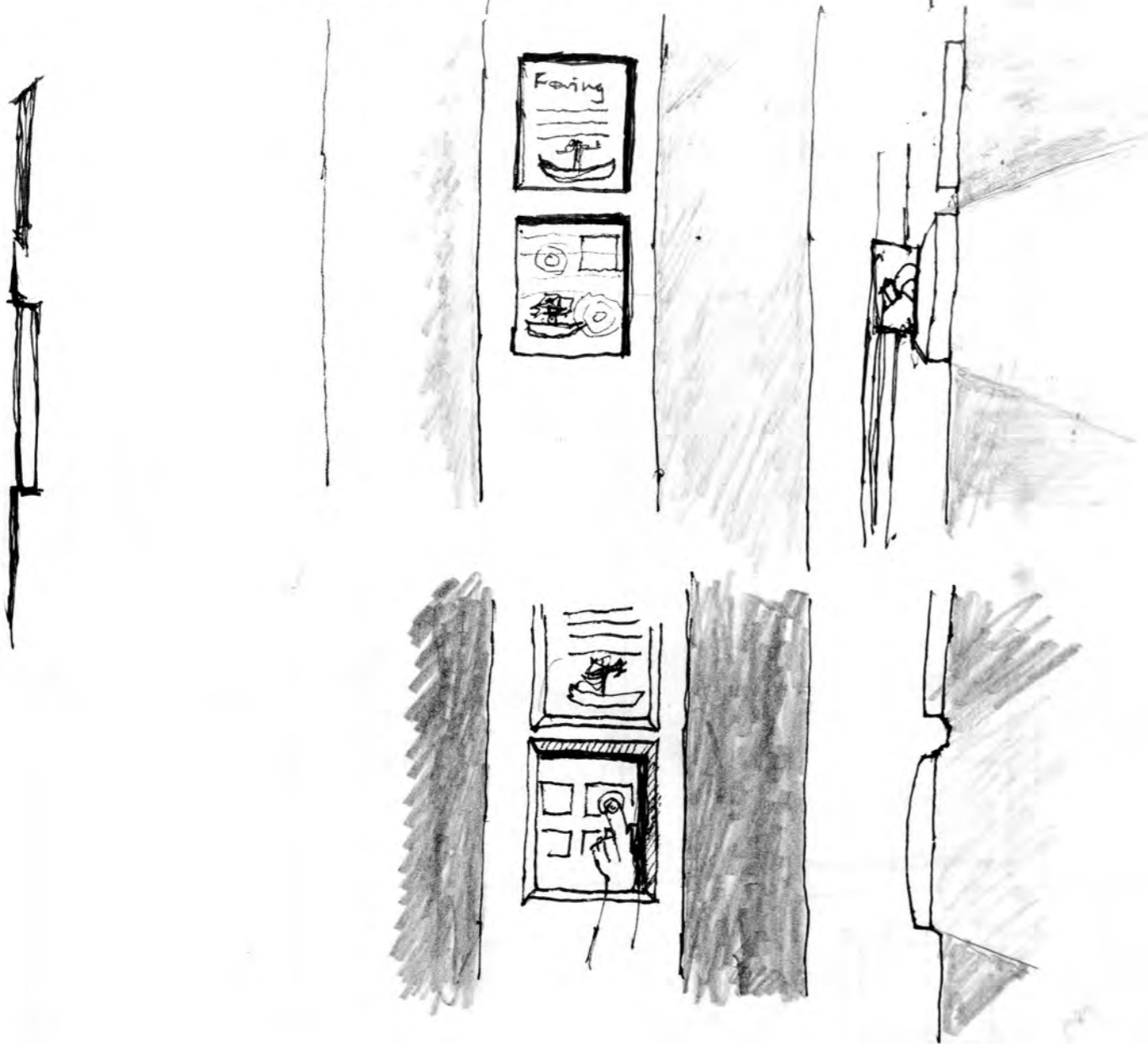
Arkivrom? Dagslys og belysning

Februar: en uke i Roma

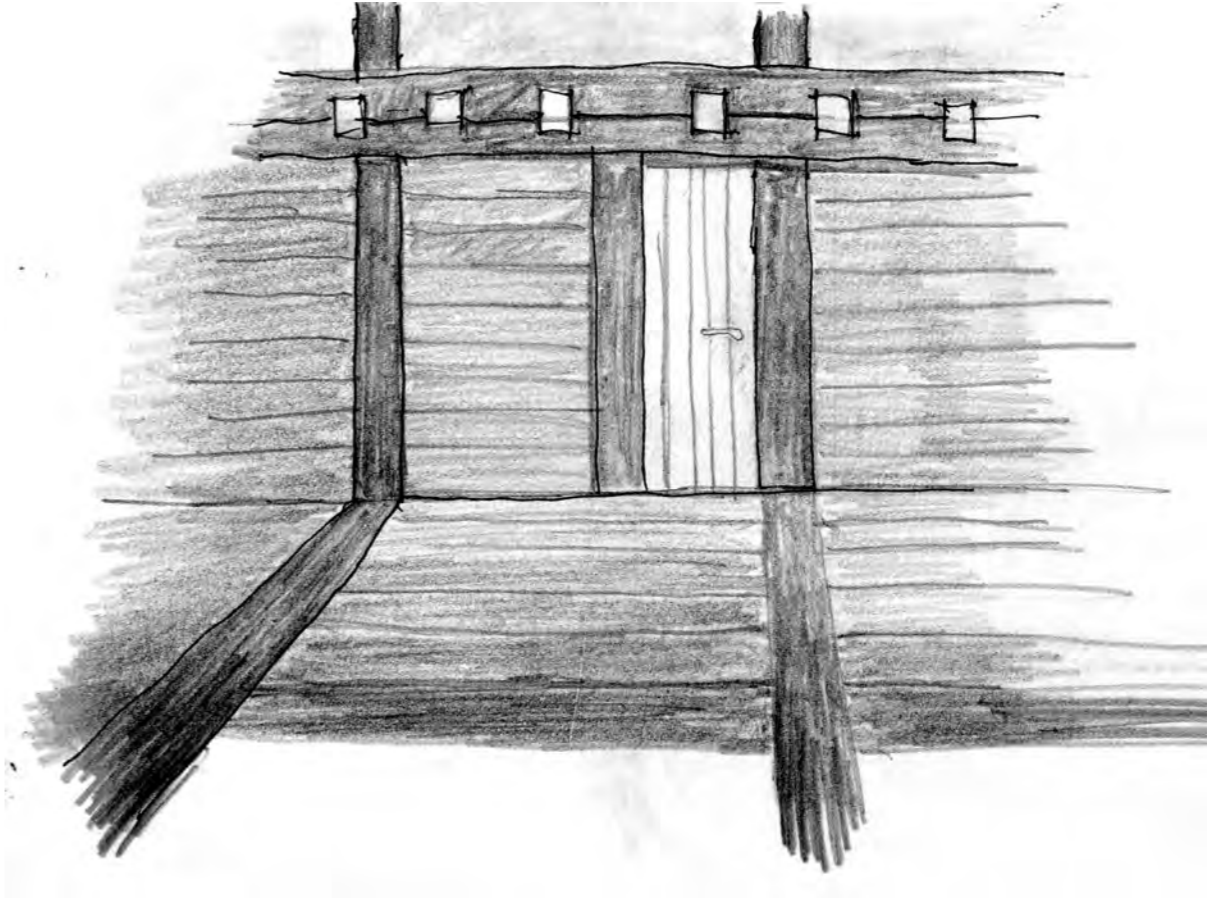


Skisser

Informasjon om båten



Informasjon om båtene i digital skjerm, innfelt i stolper



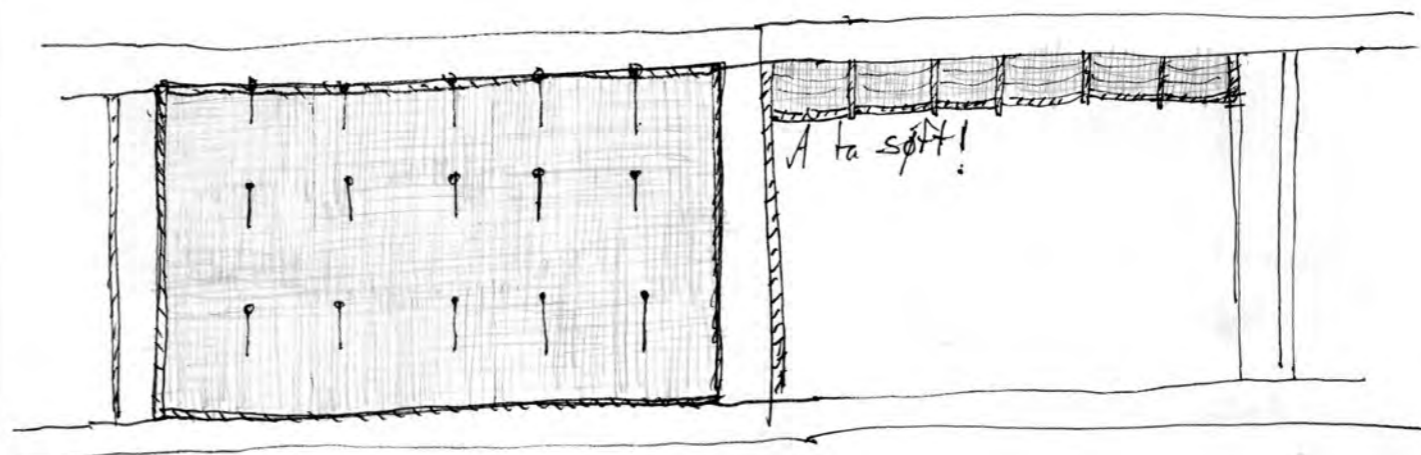
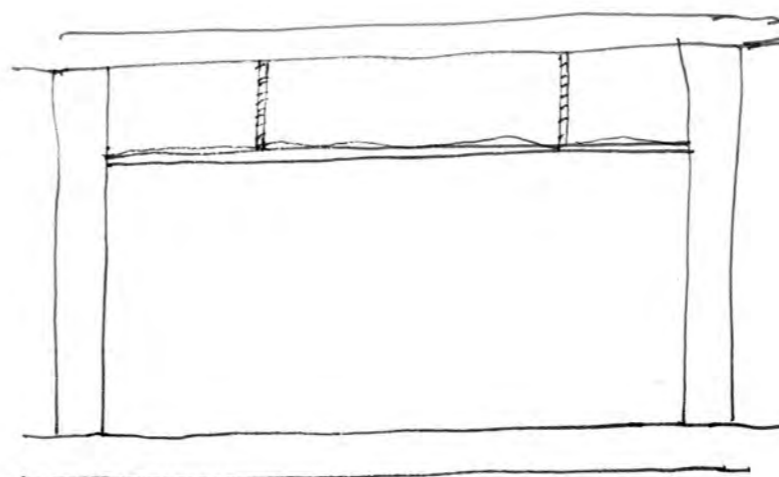
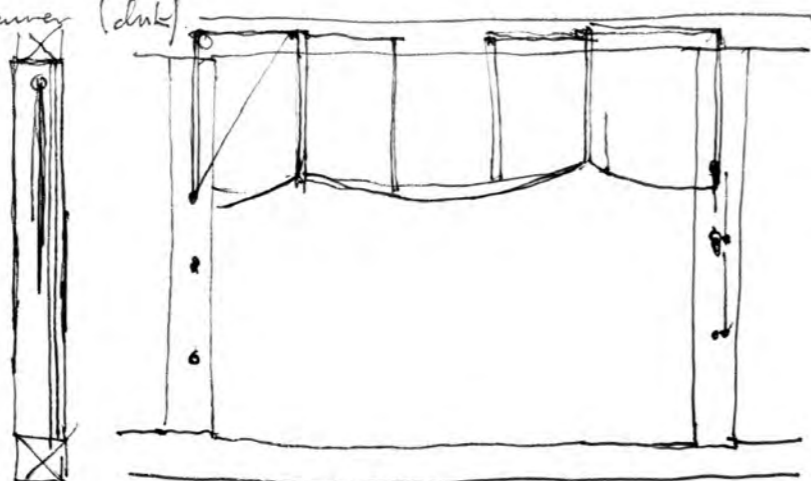
Materalitet i båtlager

Skisse, duk foran vertikale vinduer

Laggy viktigje vekt på dei fæ elementa som fins i stada for å introdusere nye element.

Element som kan innføres:

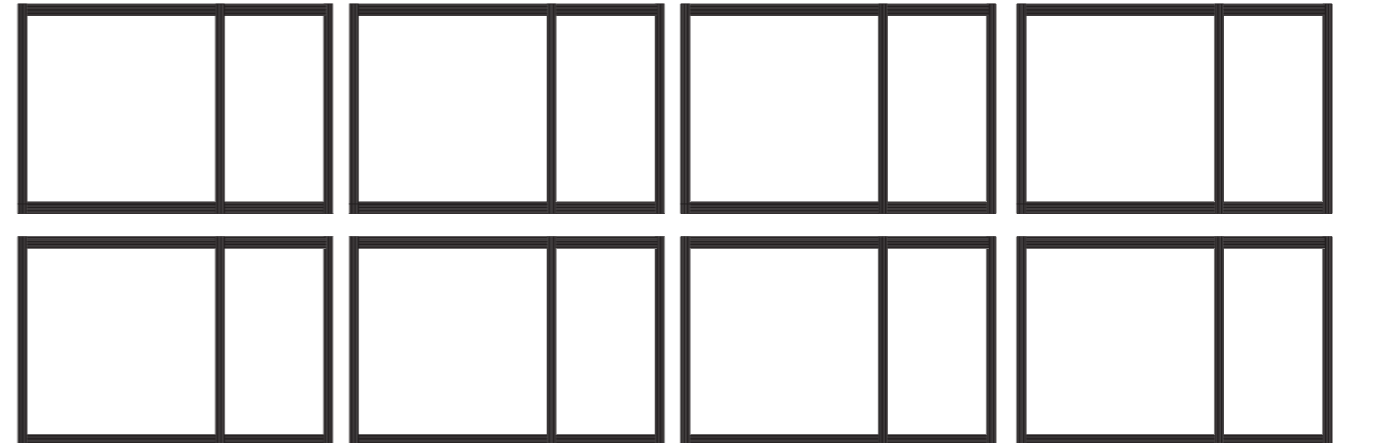
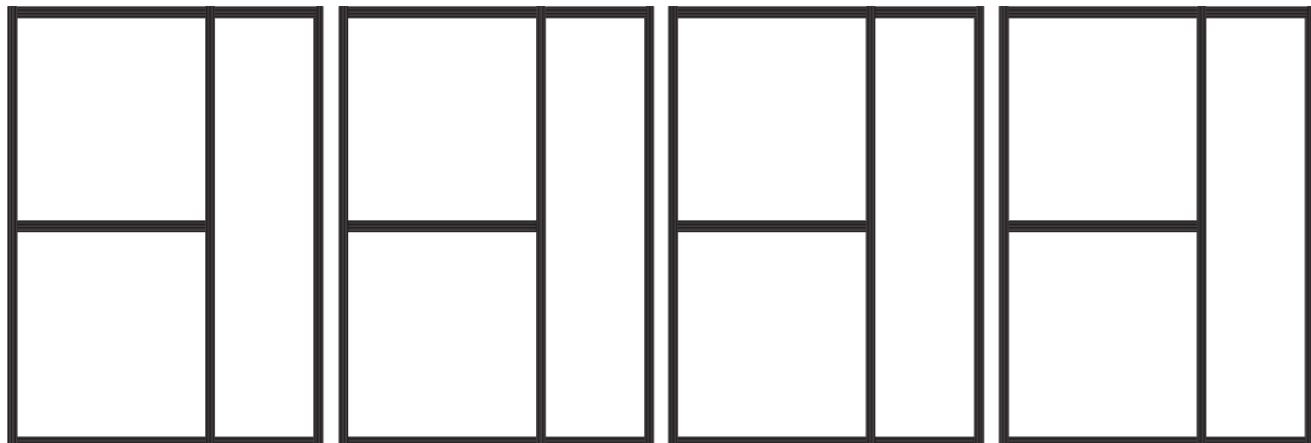
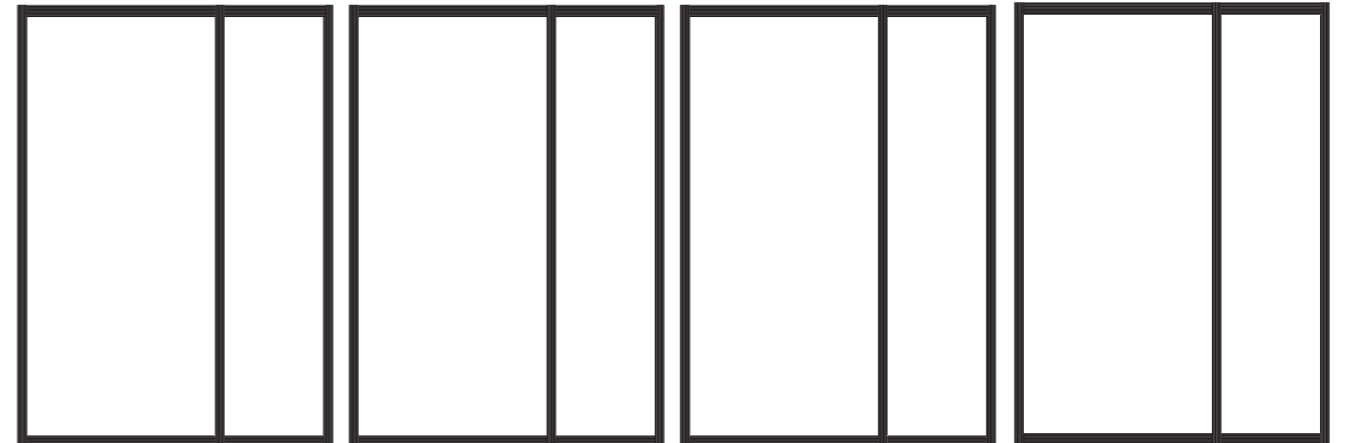
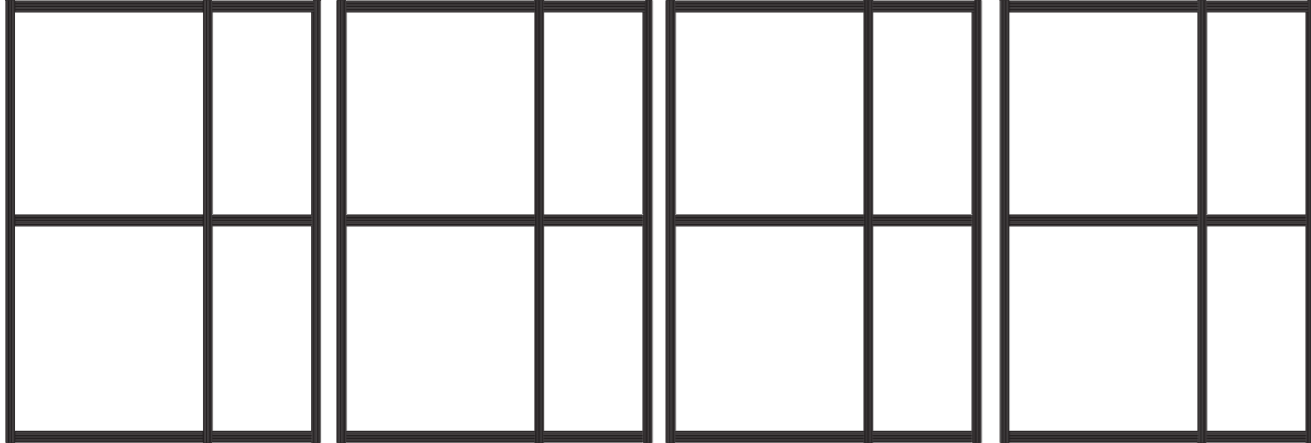
persienner (duk)

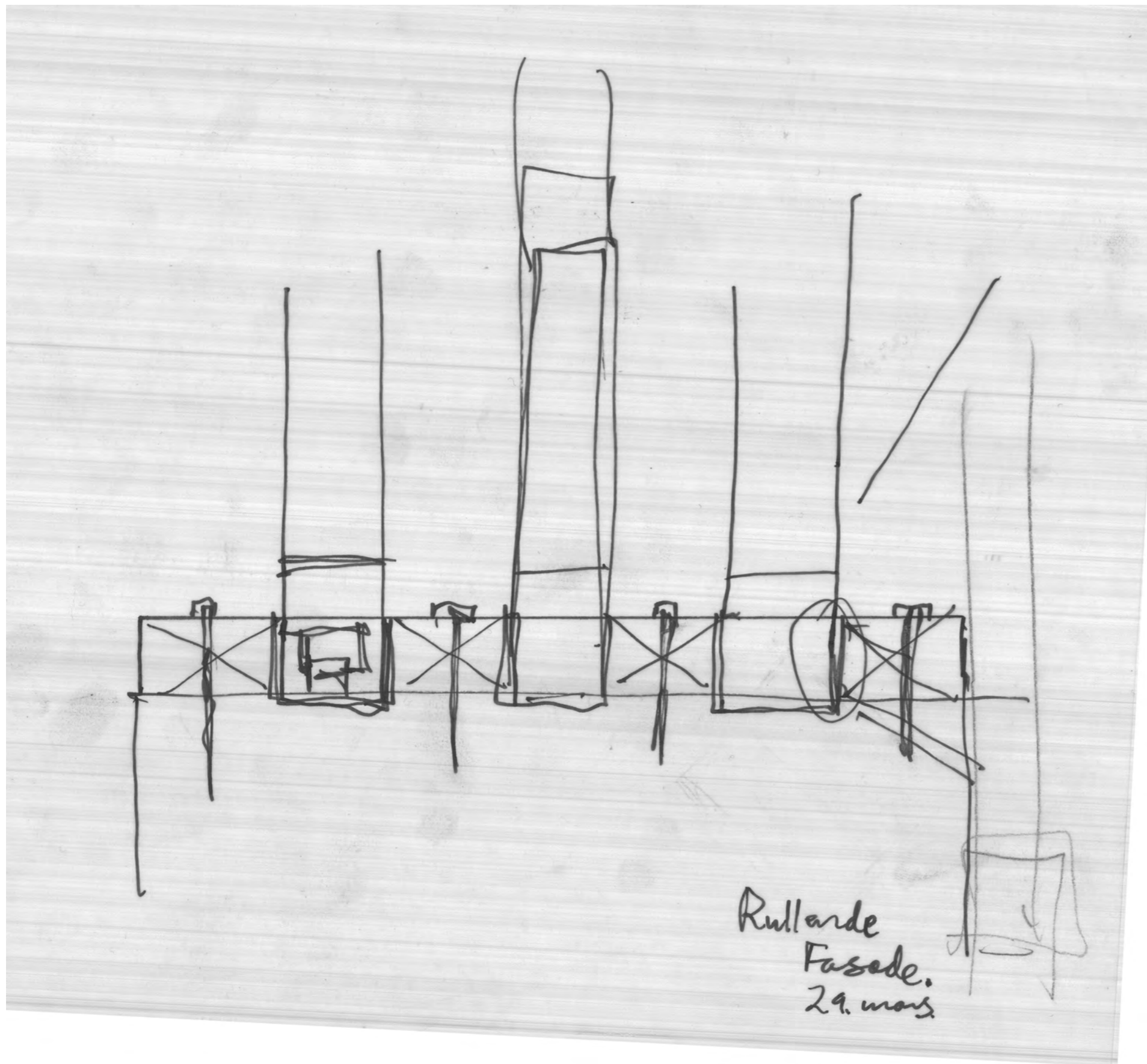


Nede

Oppe

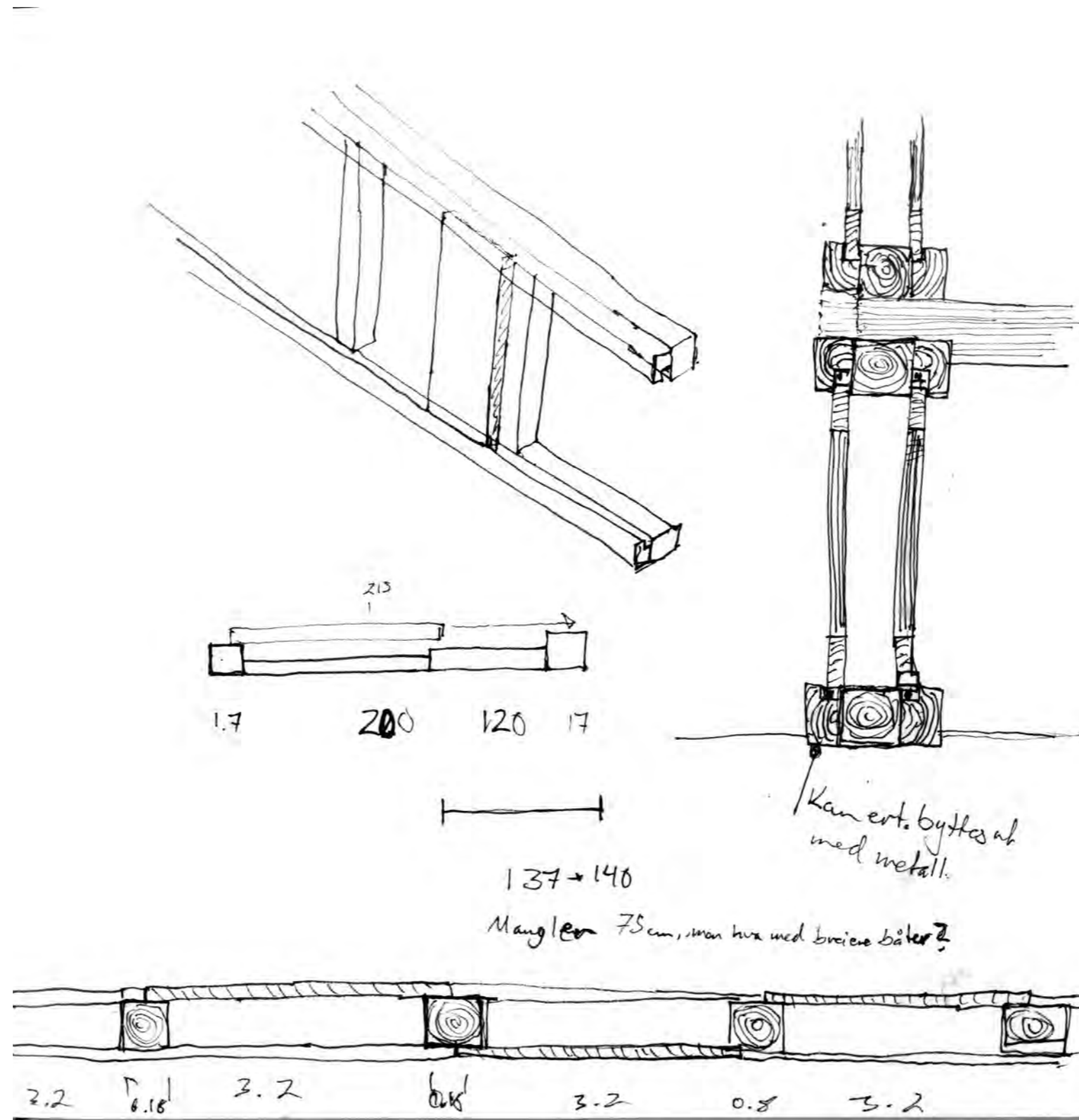
Undersøkelse, fasade sør



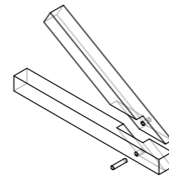
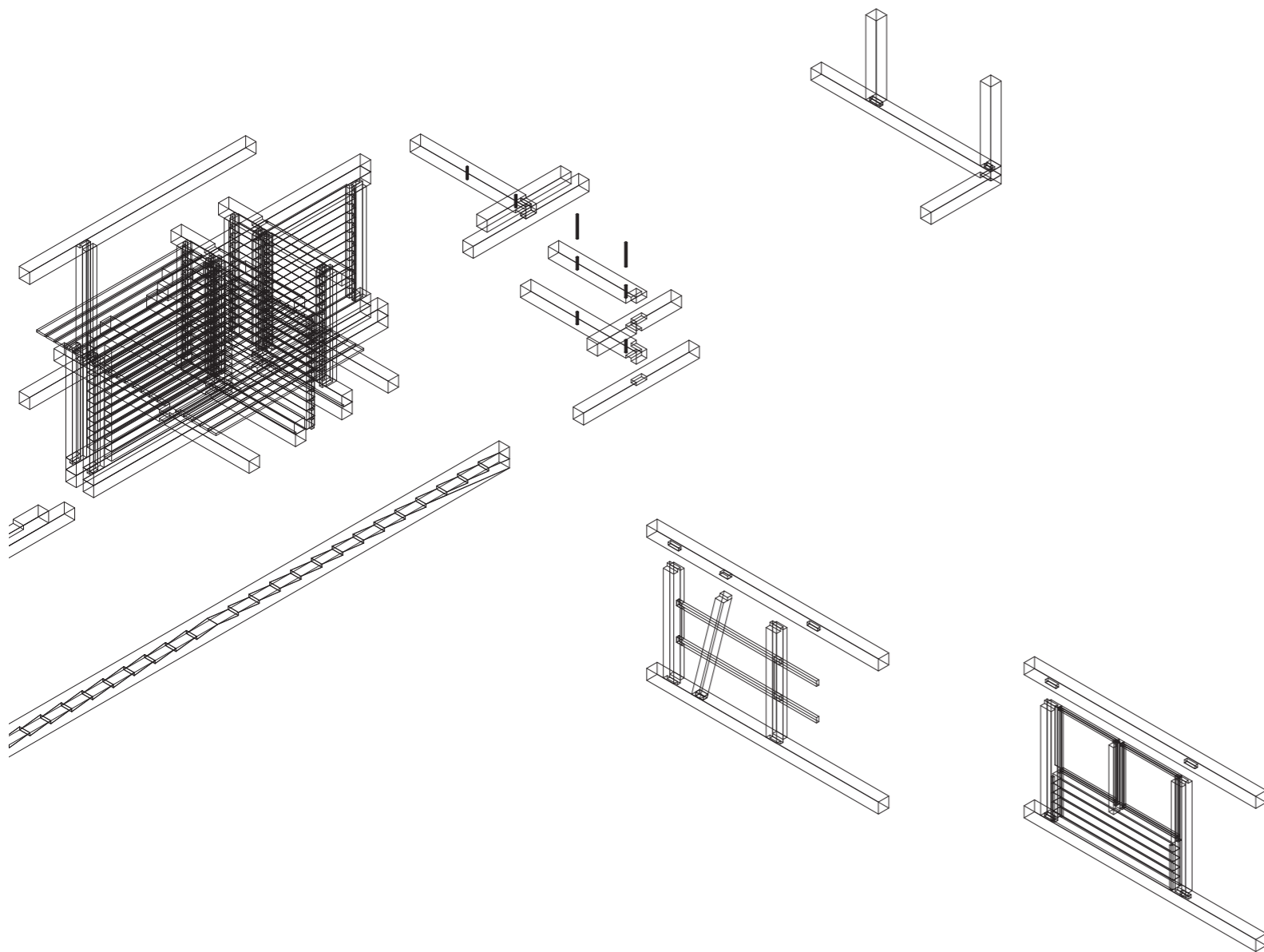


Fasade sør, detalj skyveport, skisse

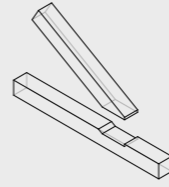
Fasade sør, detalj skyveport, skisse



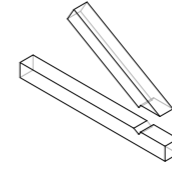
Detaljer



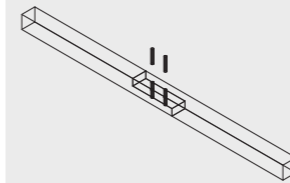
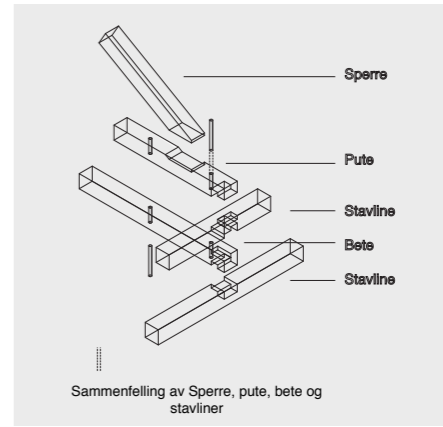
Sperresole A



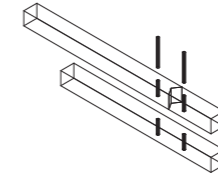
Sperresole B



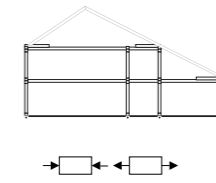
Sperresole C



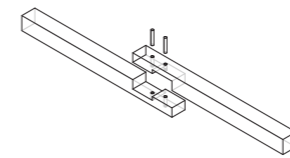
Bladskoyt



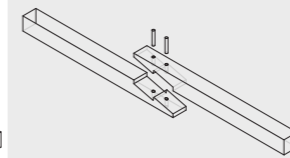
Tappskoyt
Ikke egnet i konstruksjonen



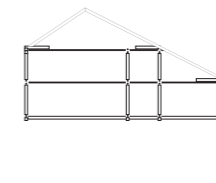
Skjot av liner som tar trykk og strekk



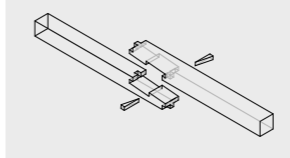
Hakebladskoyt



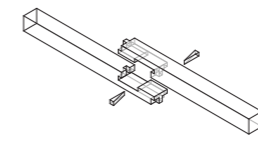
Skrå hakeskoyt



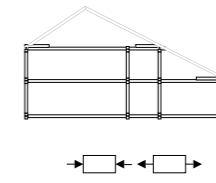
Skjot av liner som tar trykk og strekk og skjær



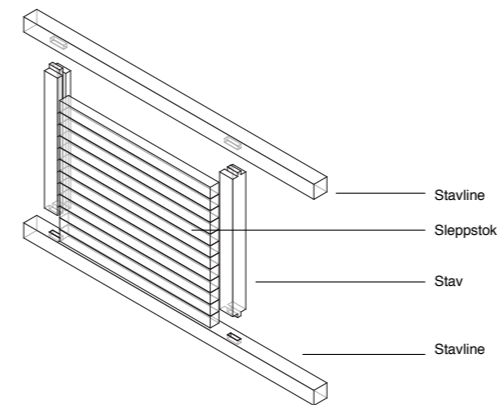
Fransk lås, skrå



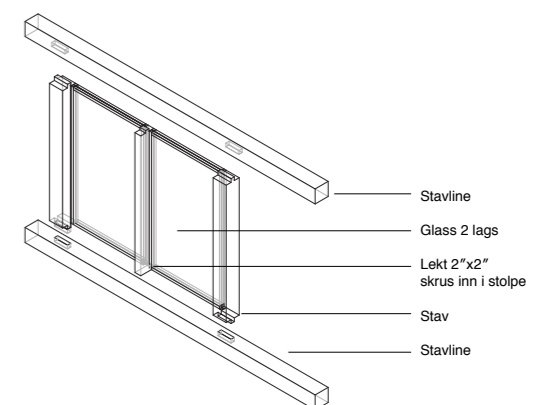
Fransk lås



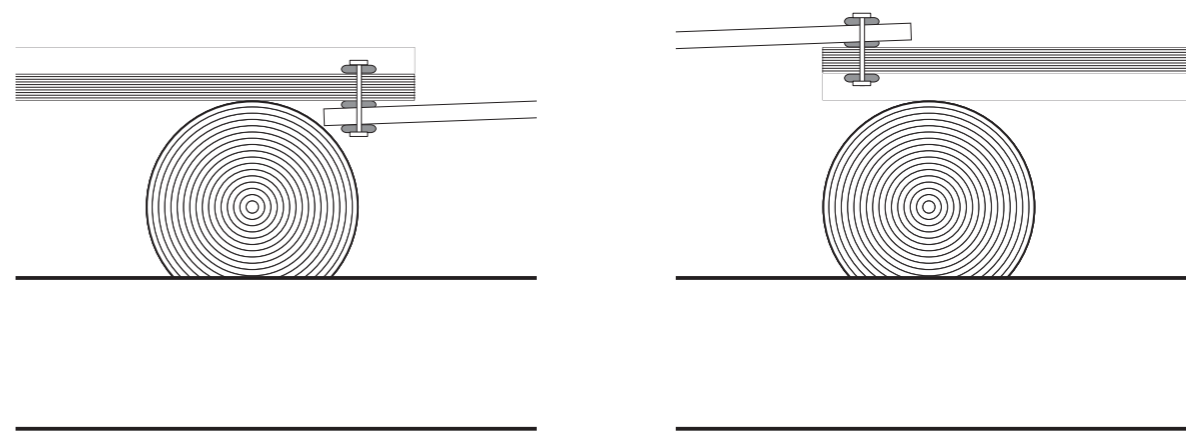
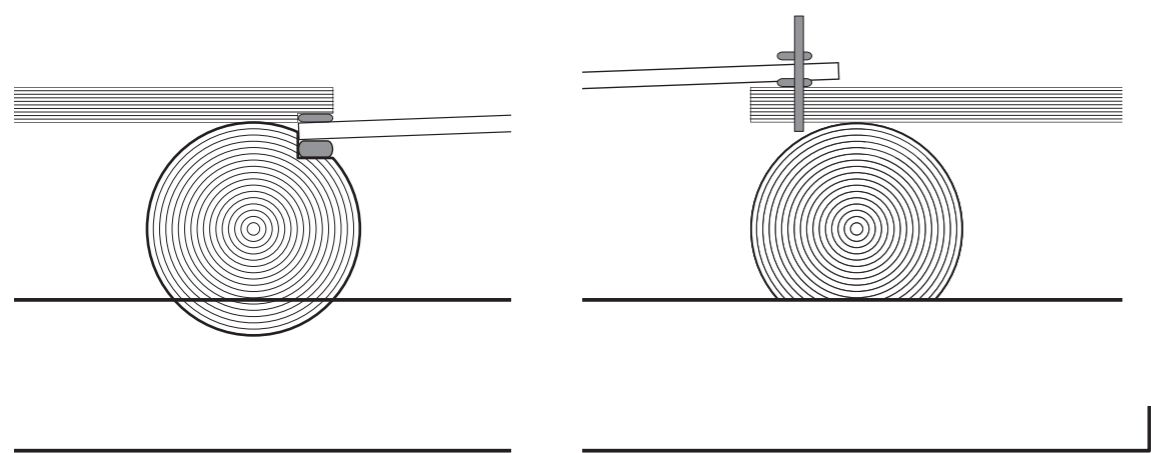
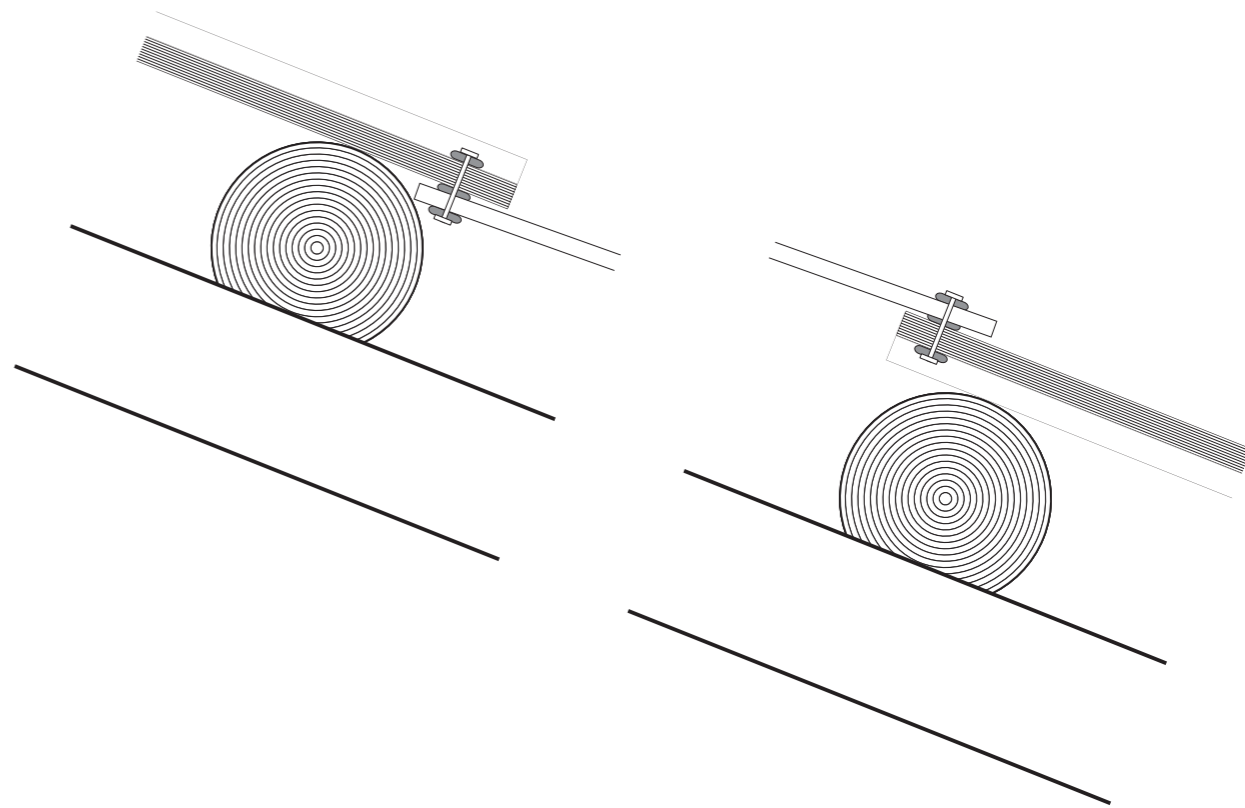
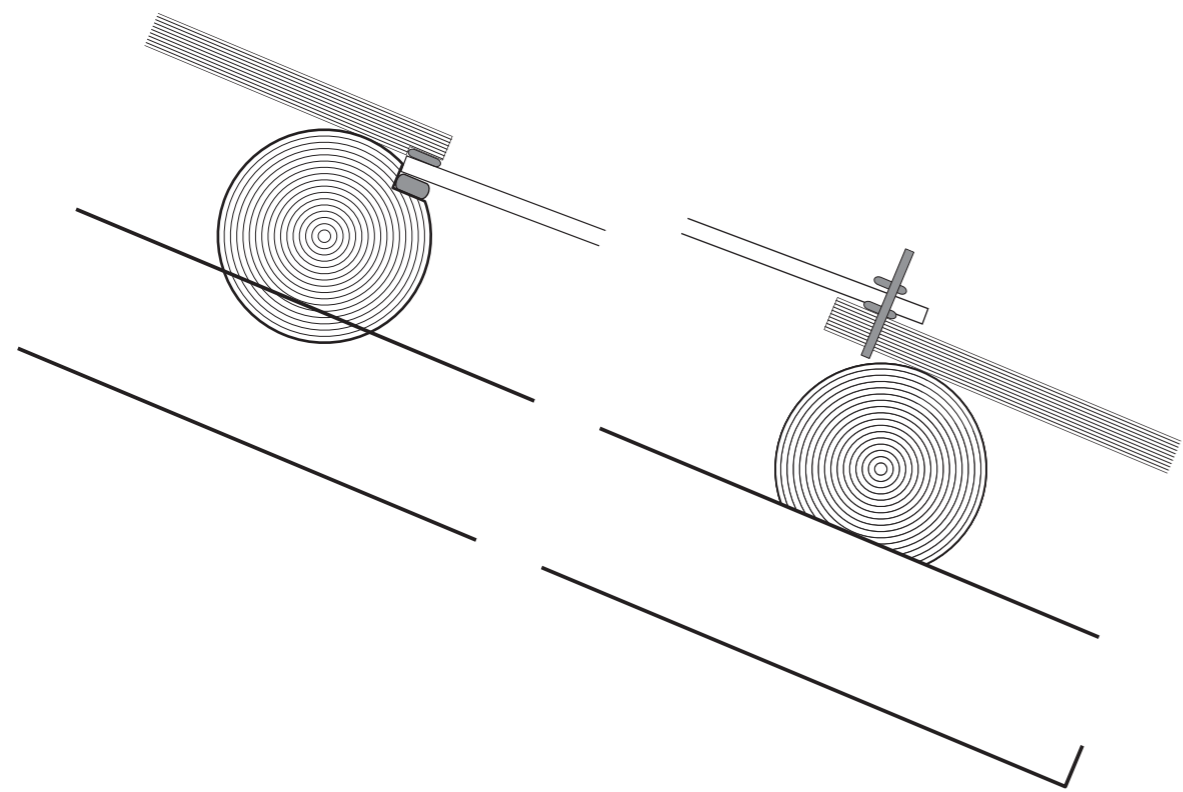
Skjot av liner som tar trykk og strekk og skjær og vridning



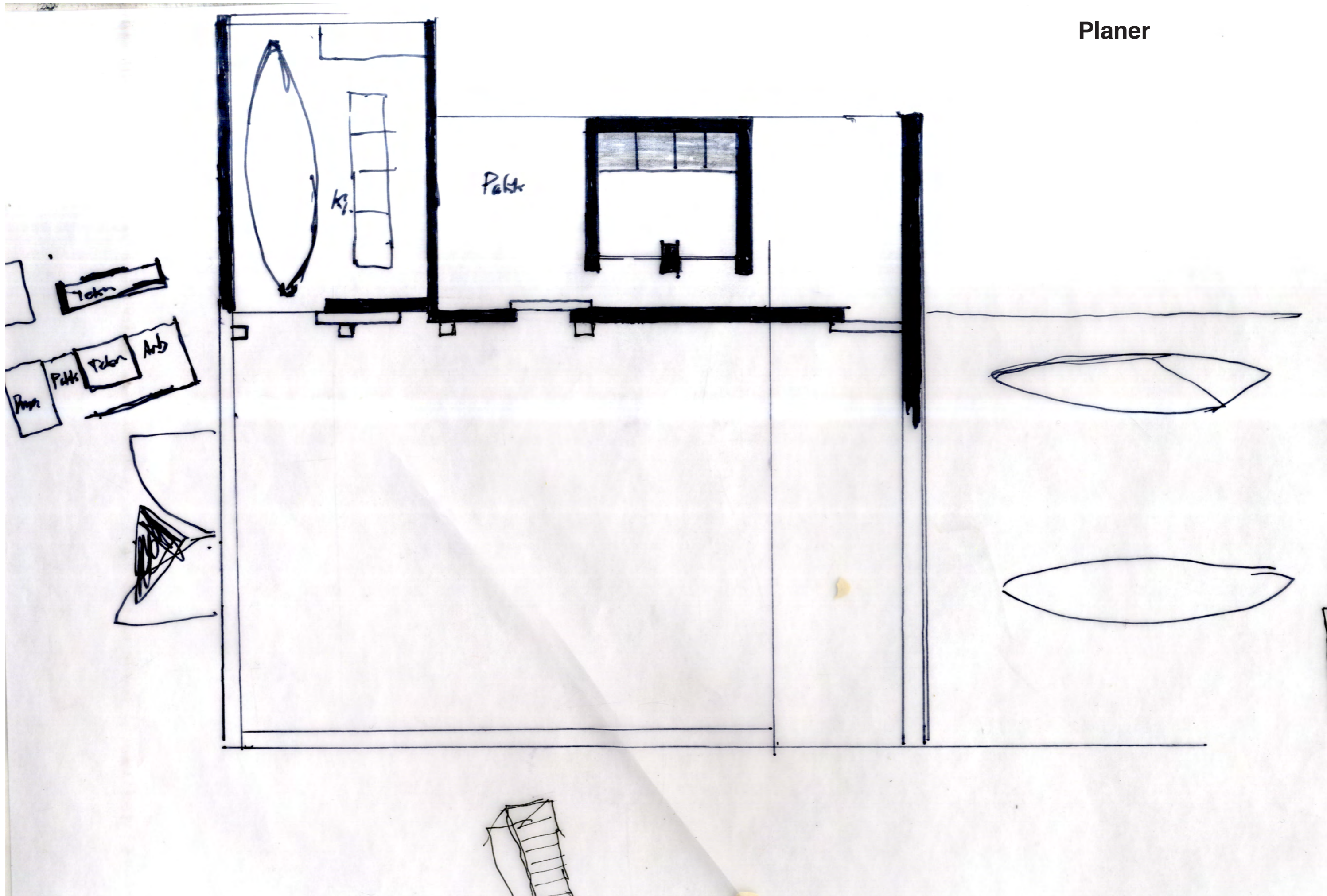
Sleppvegg

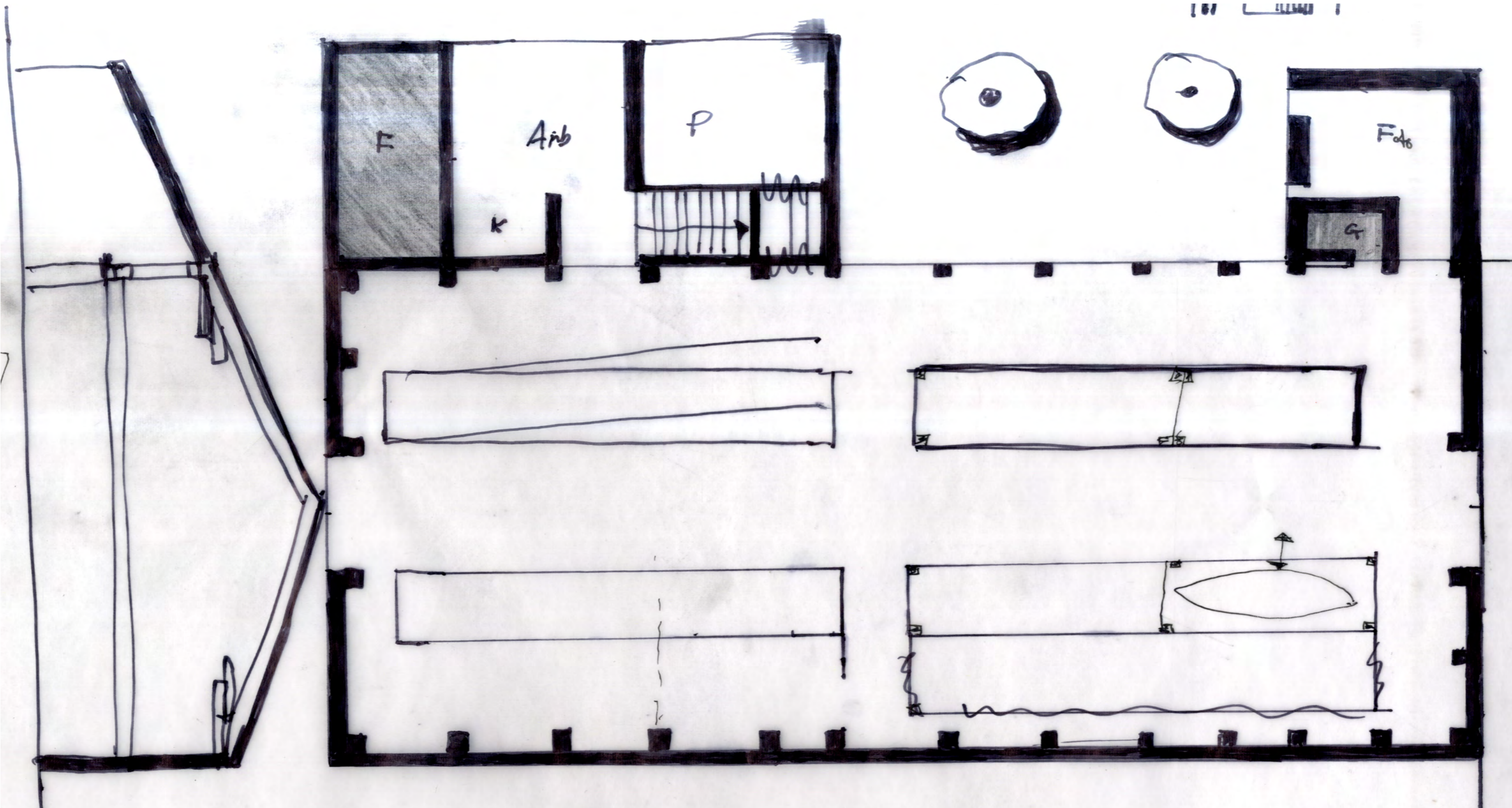


Innfesting av vindu

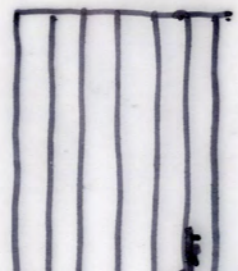


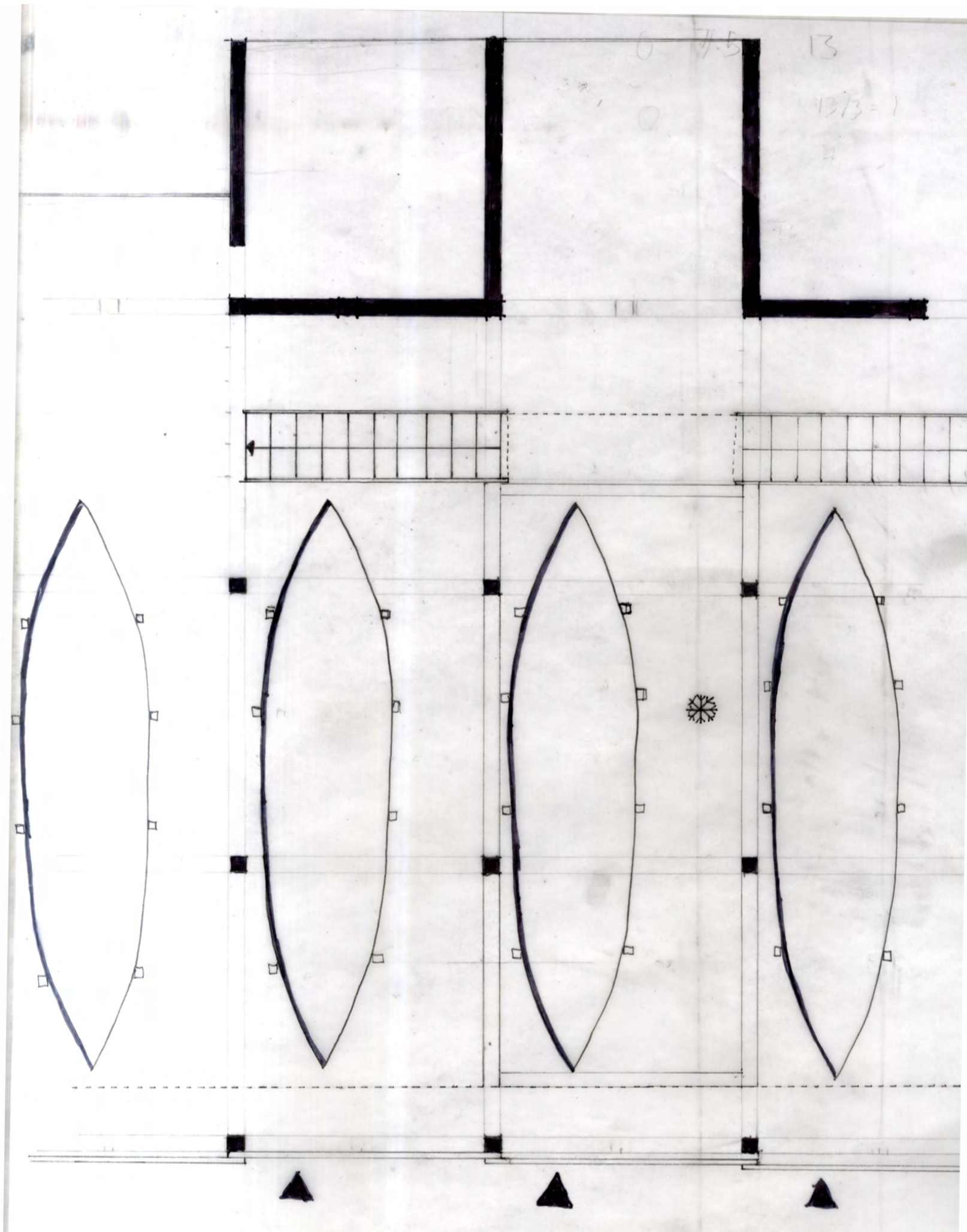
Planer

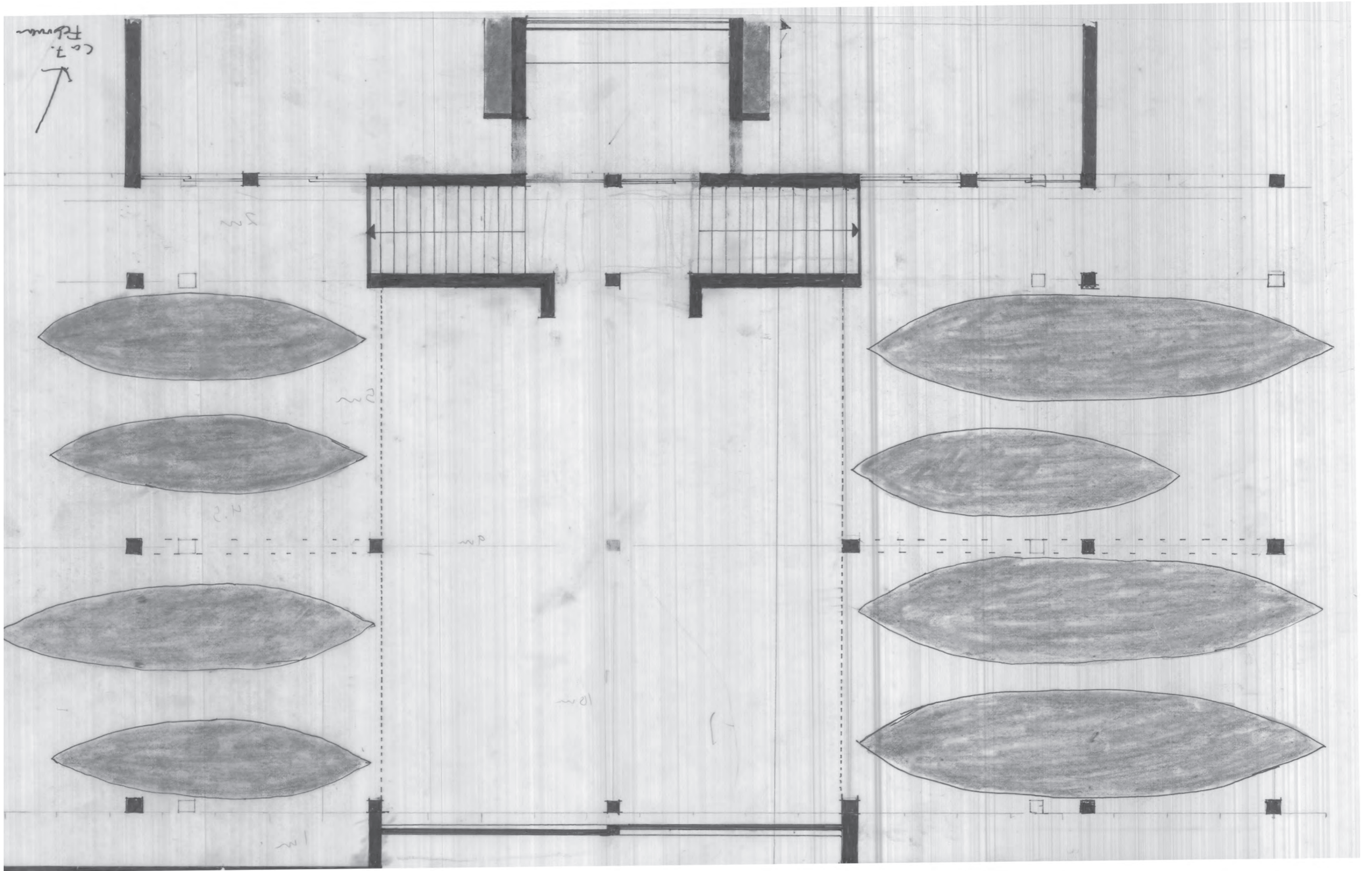


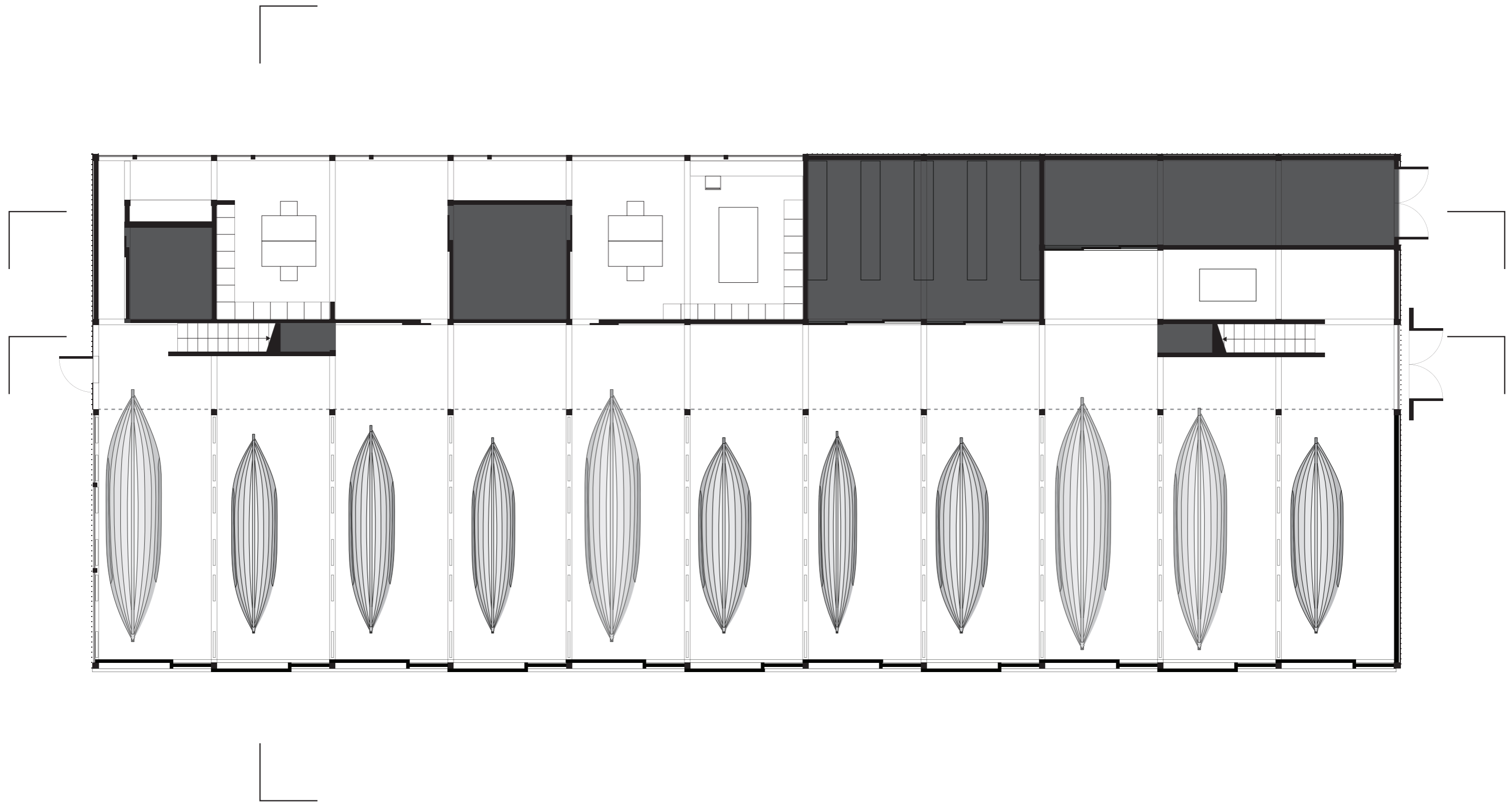


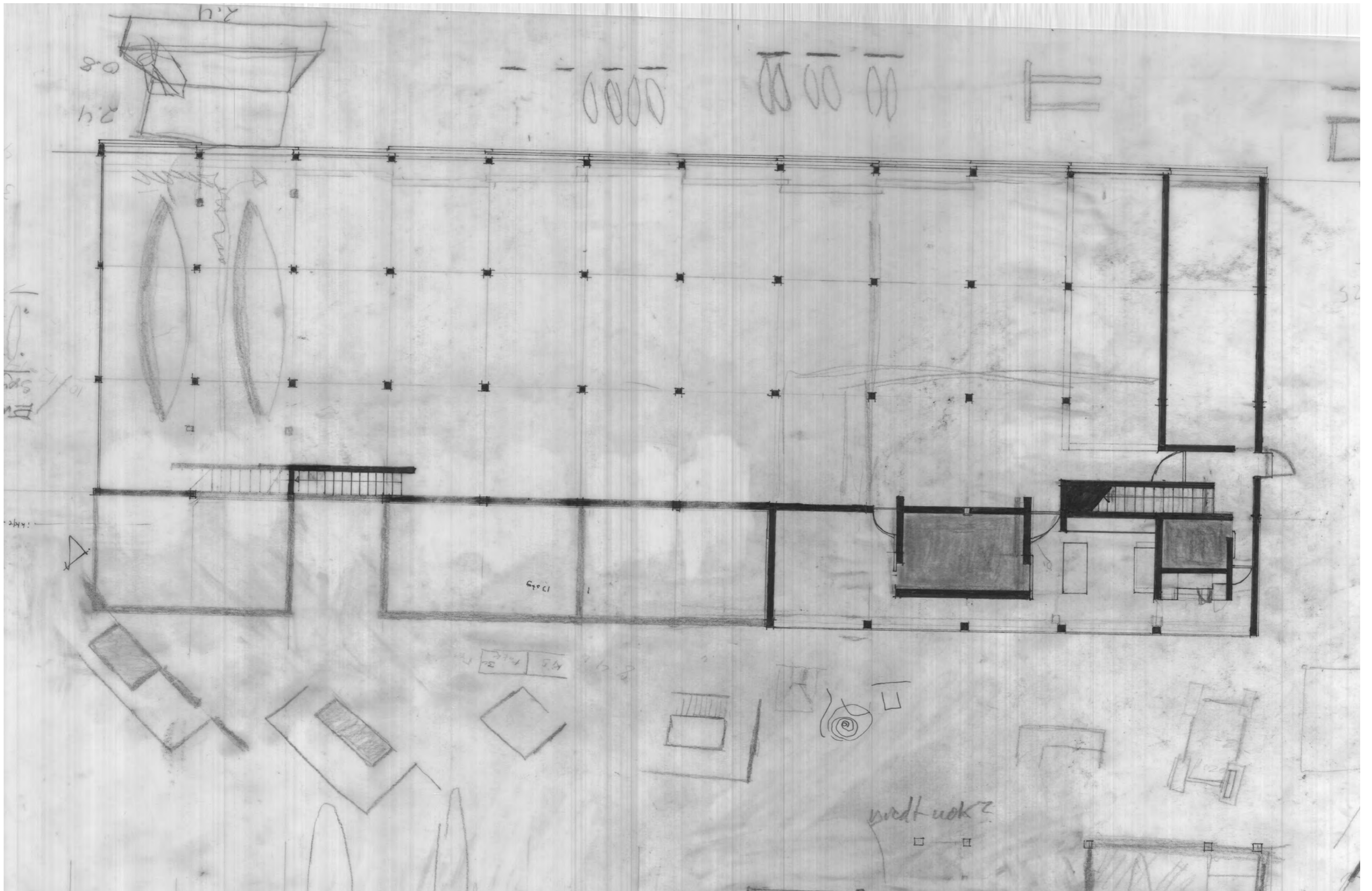
→ Distanze til Pstovom
 → Legg alle små
 rom

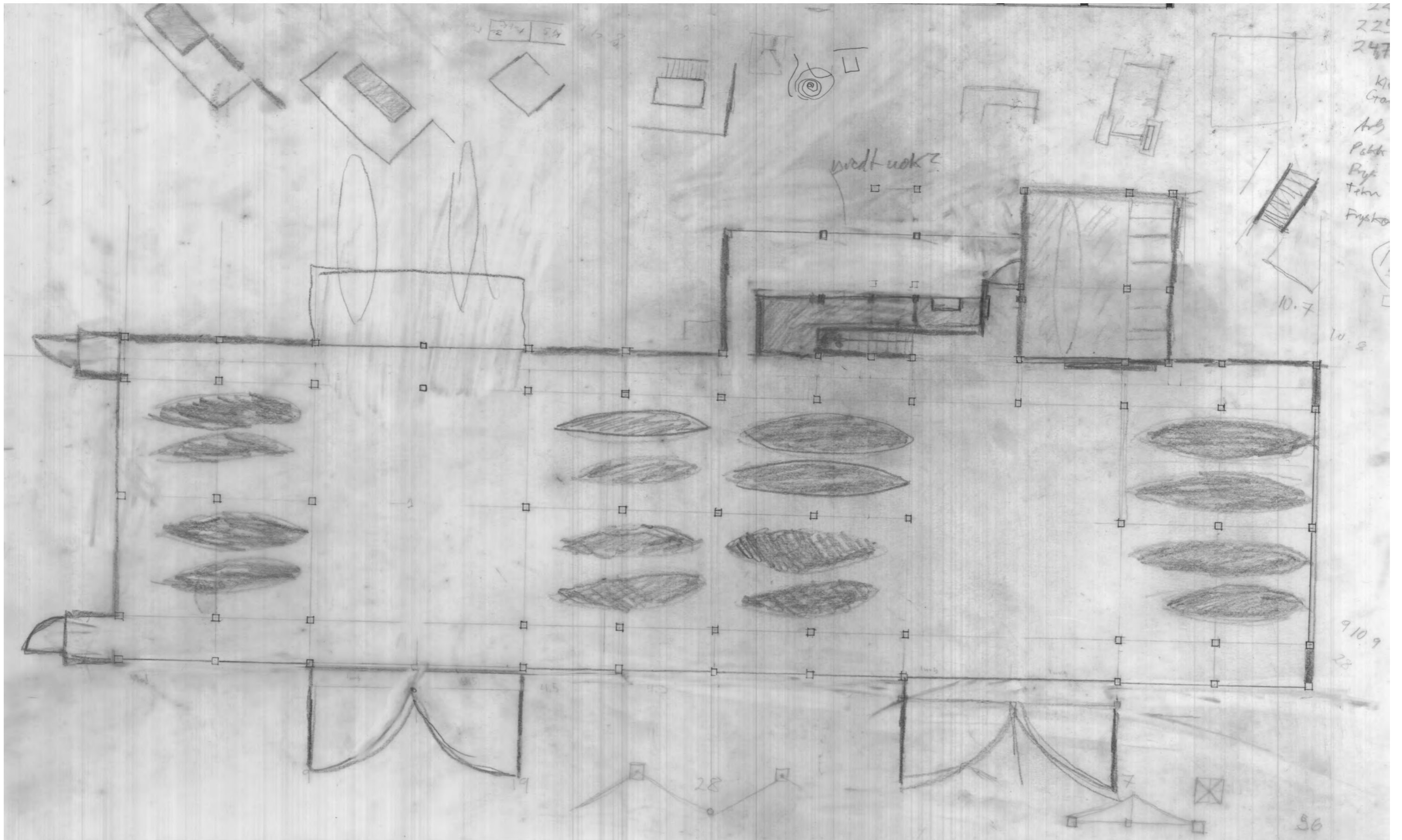


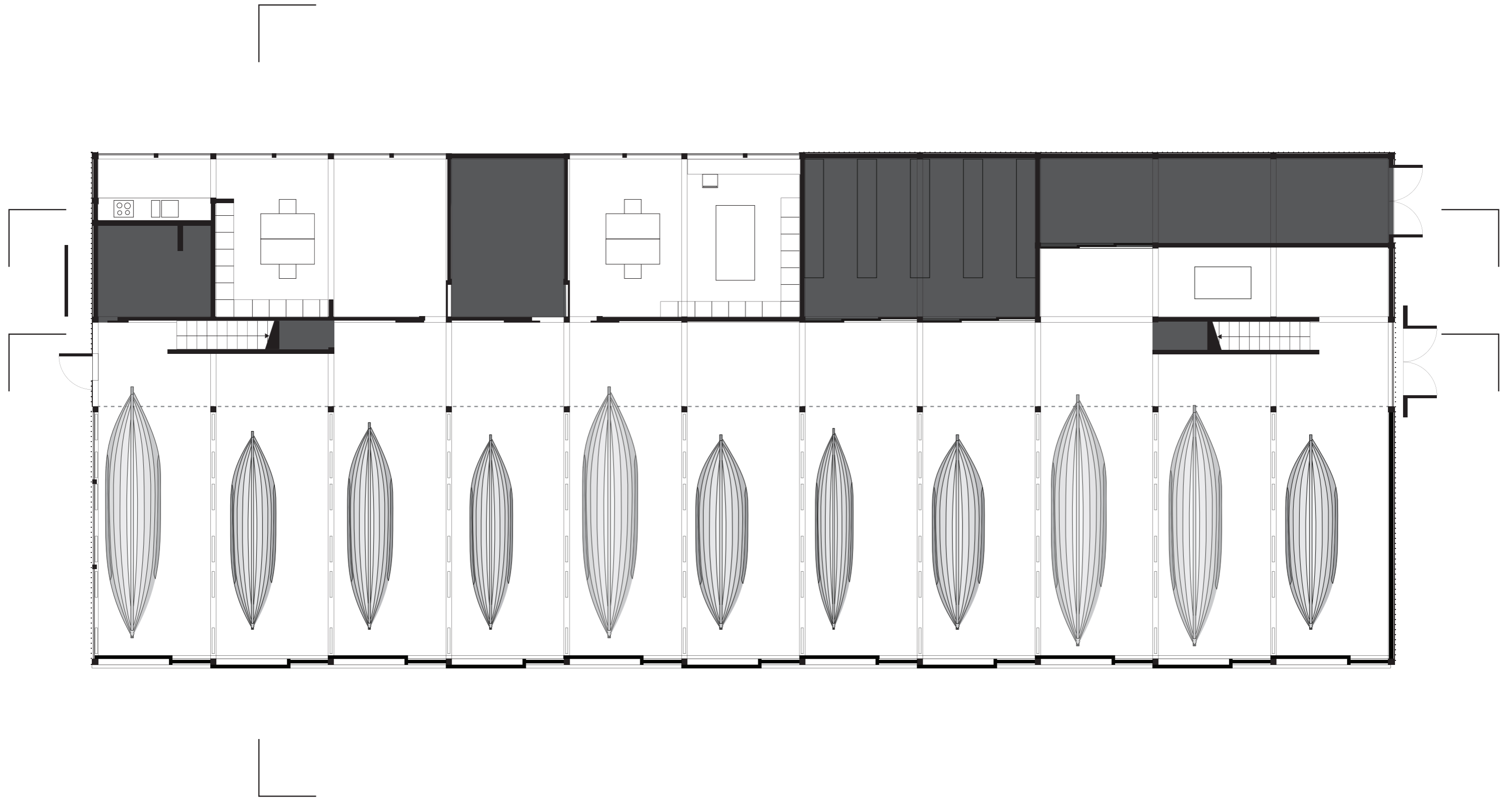




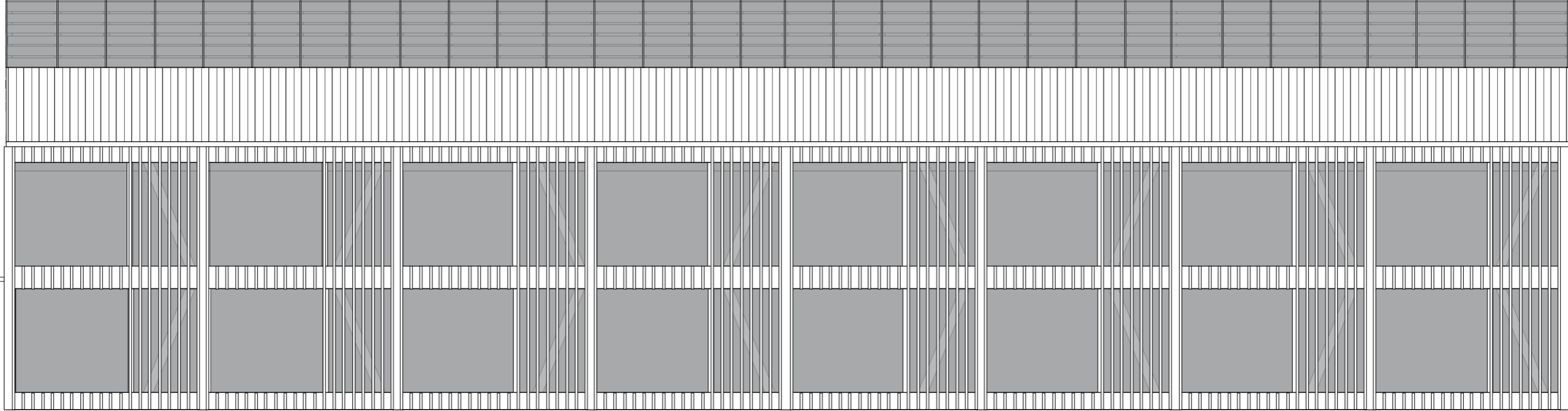
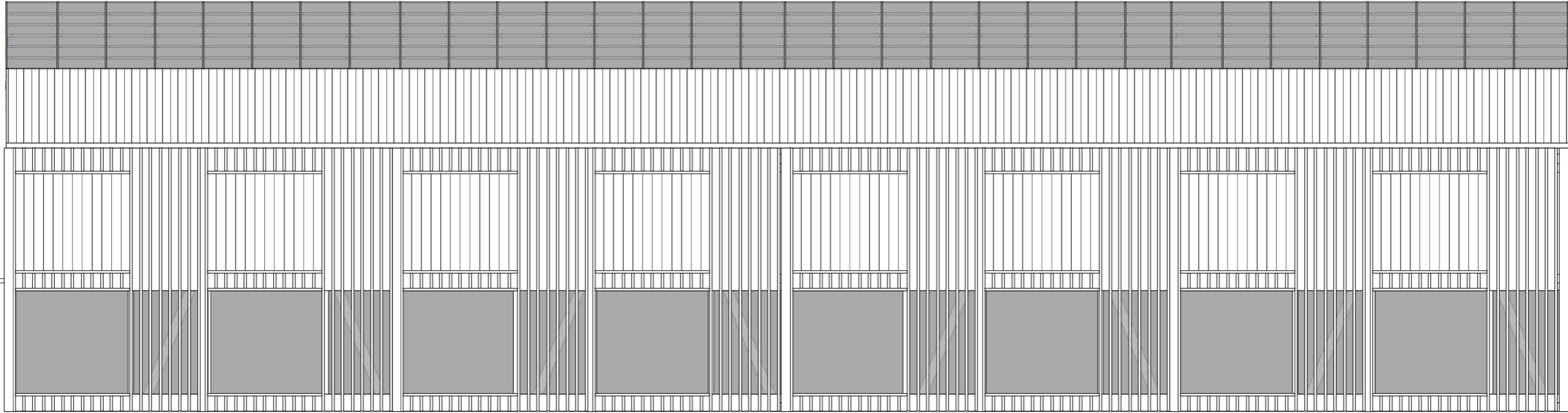




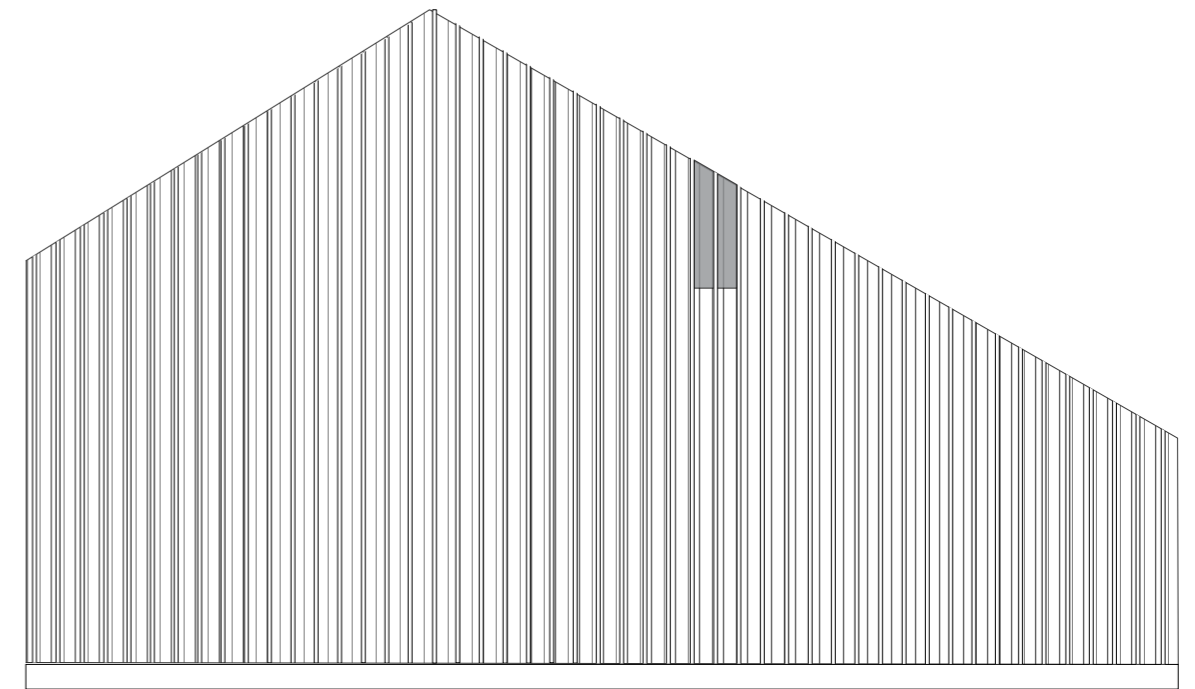
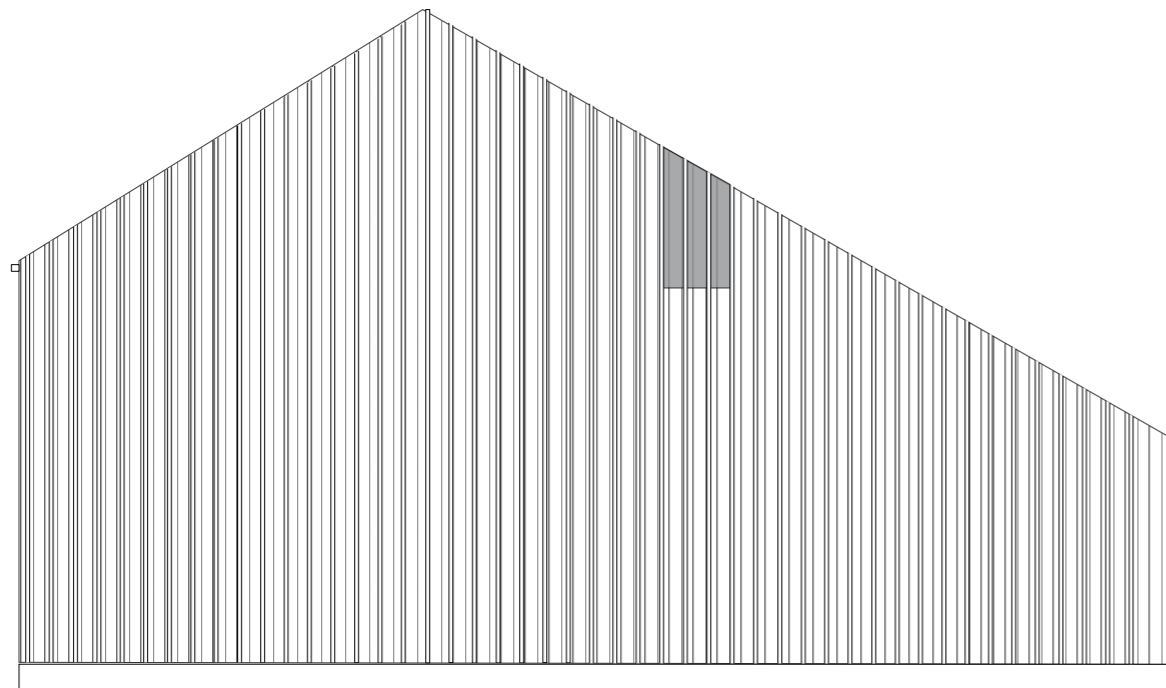
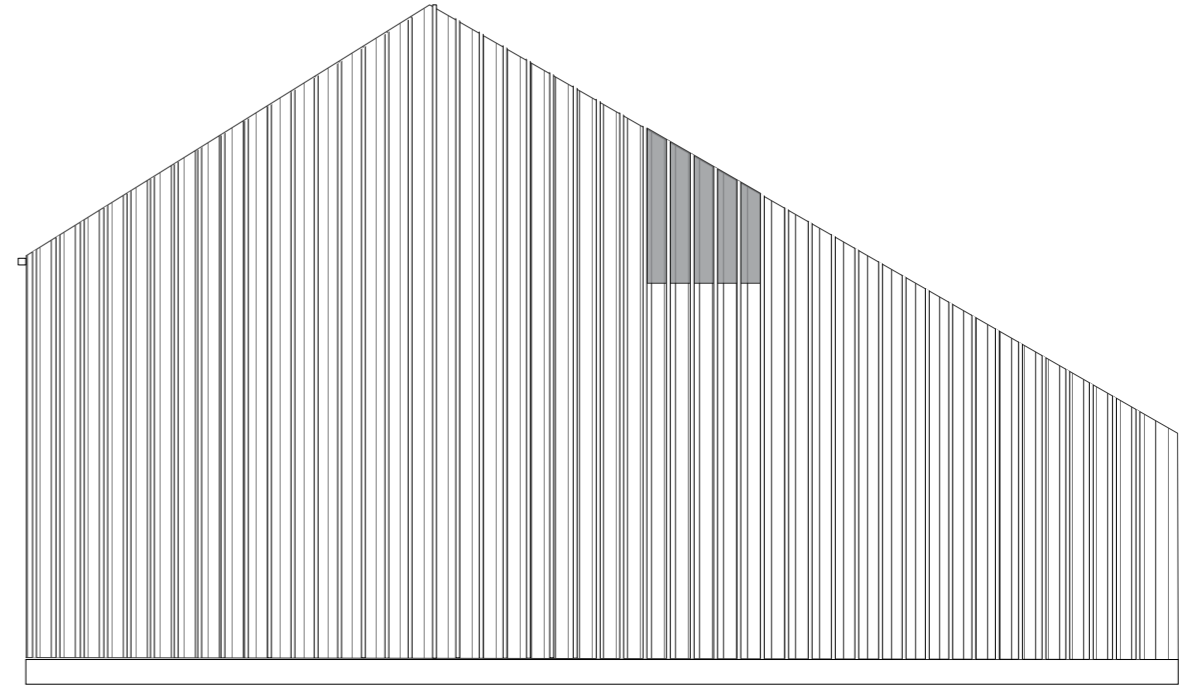
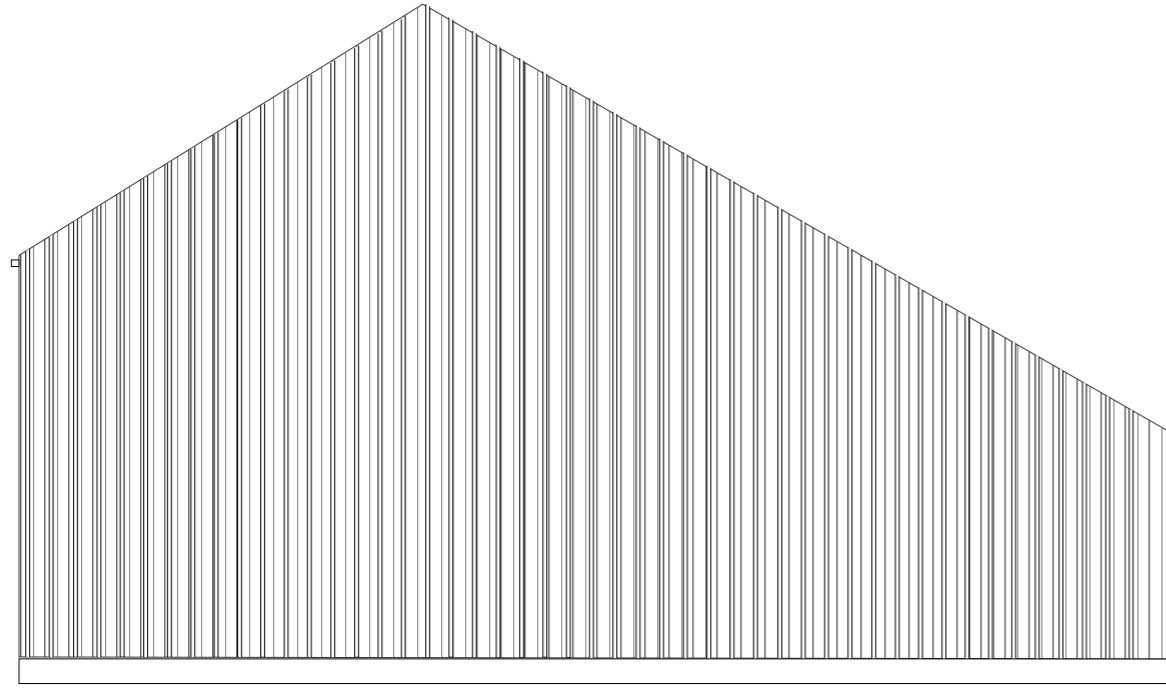




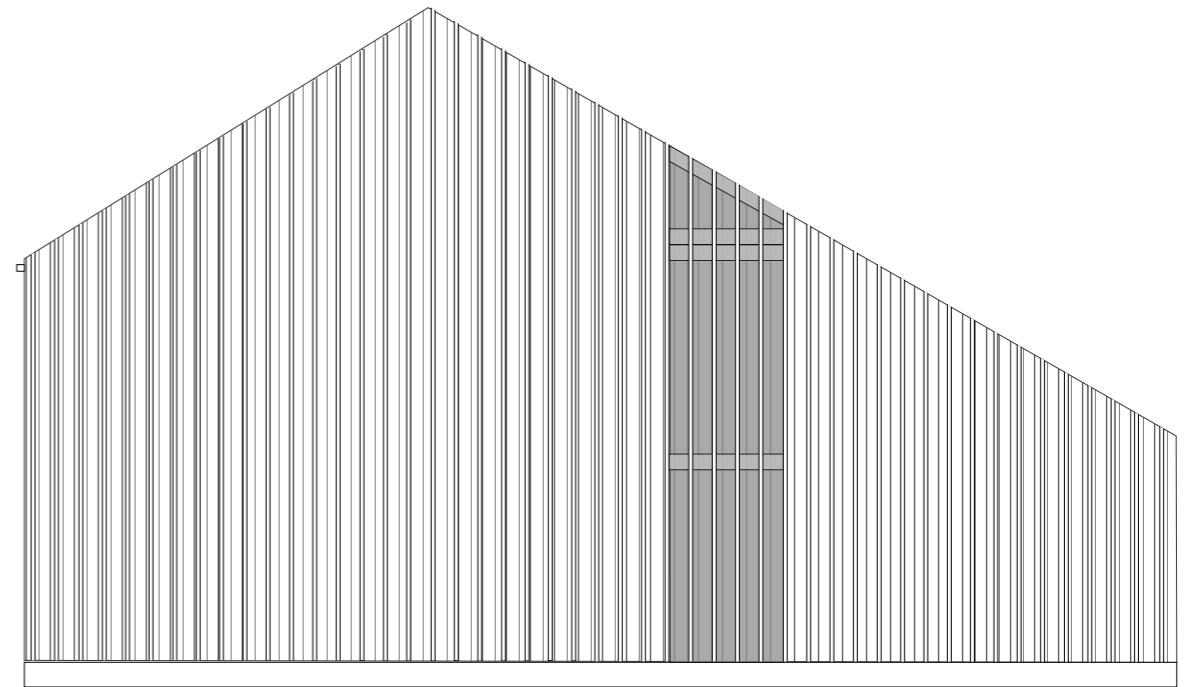
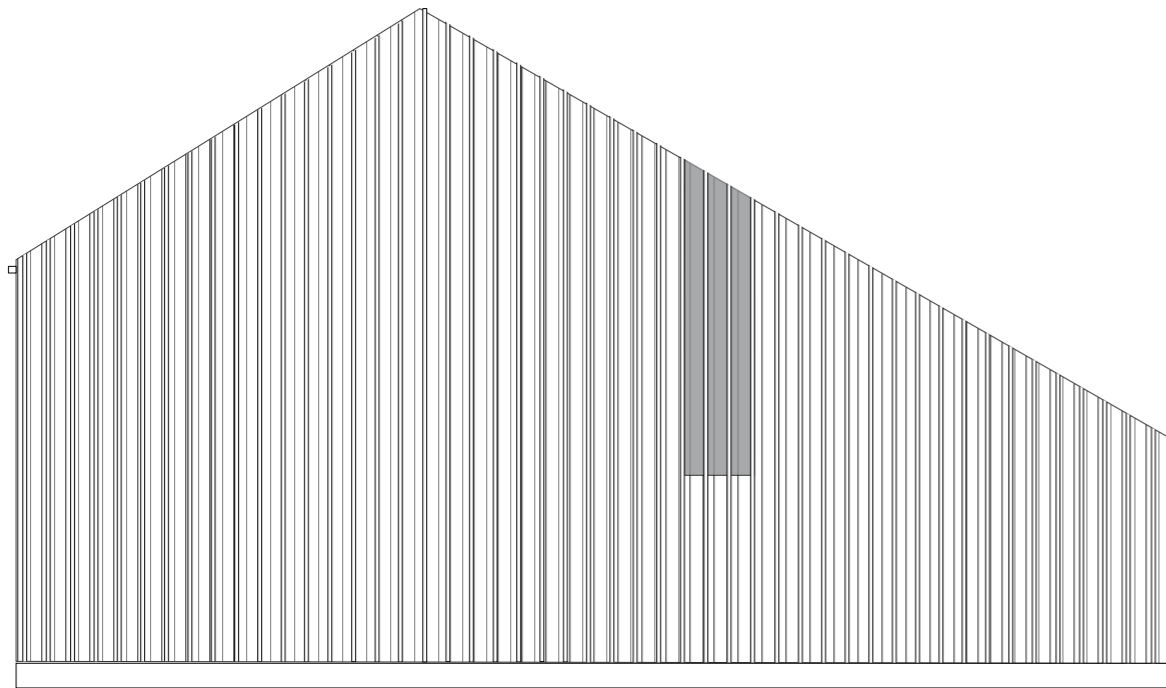
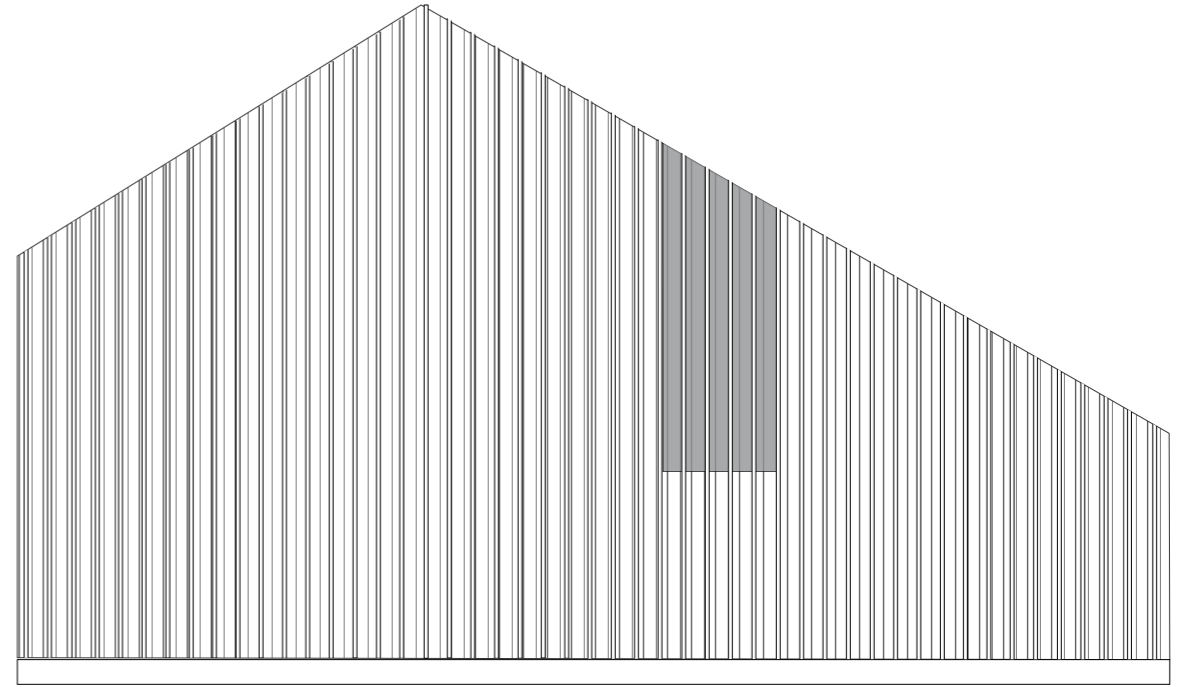
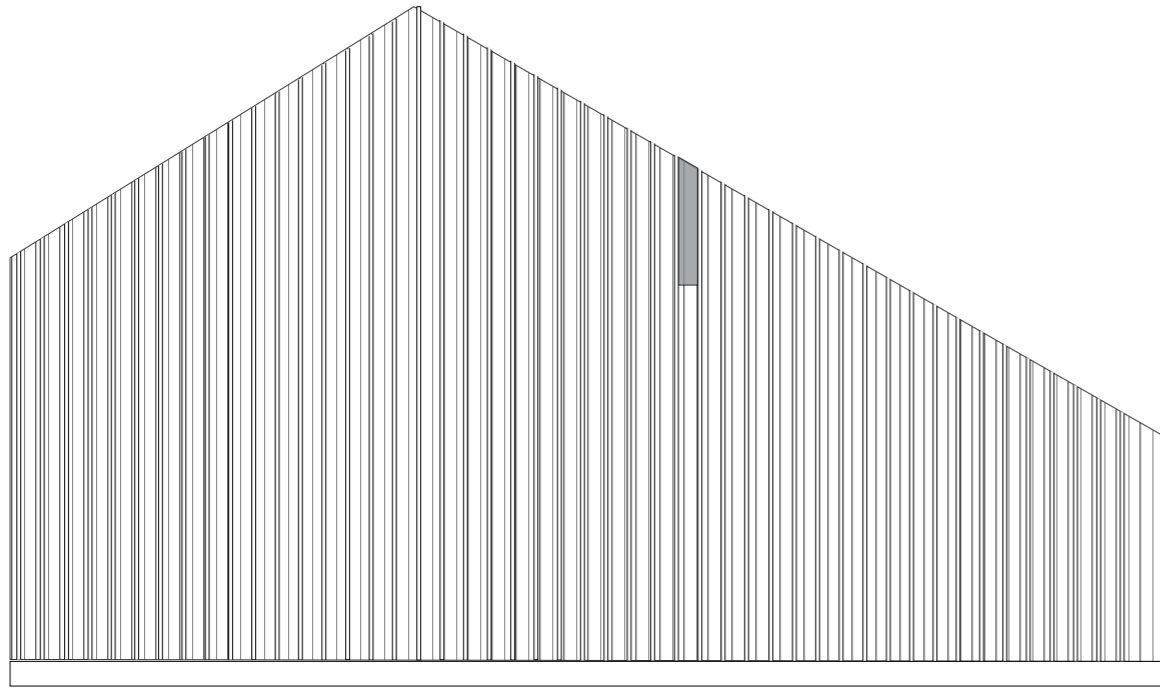
Fasader sør



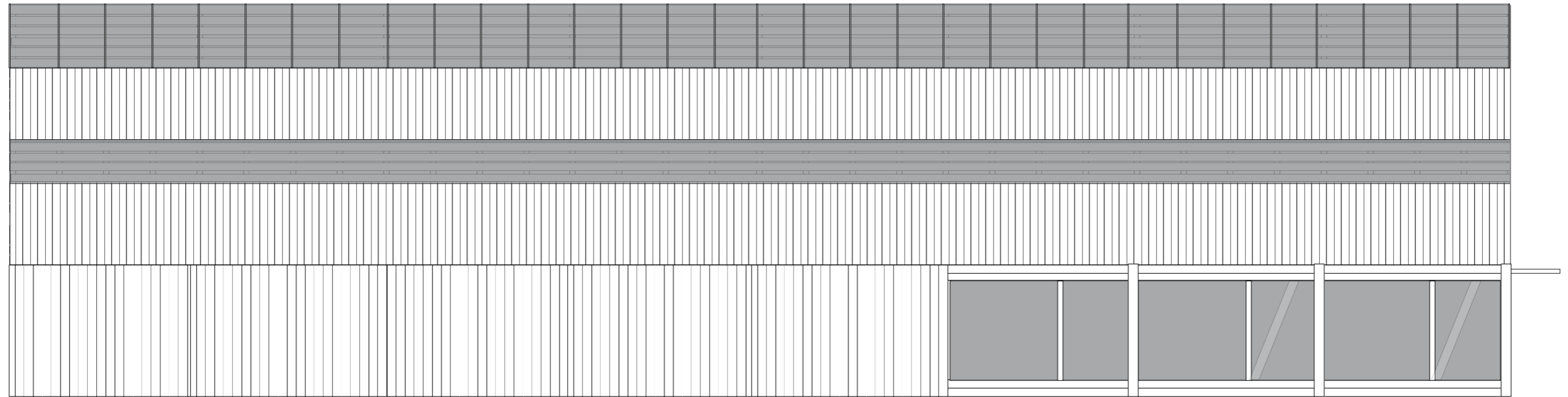
Fasader øst



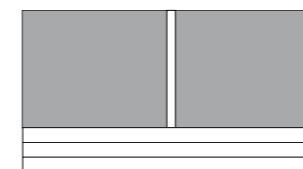
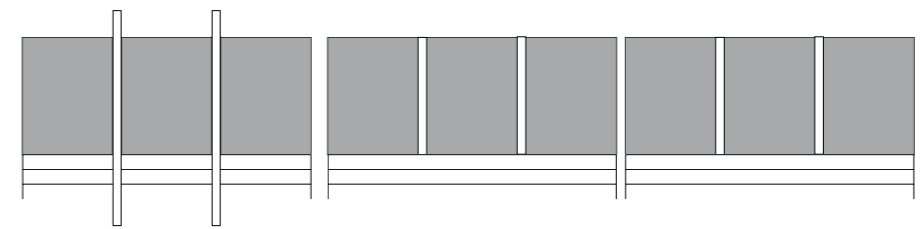
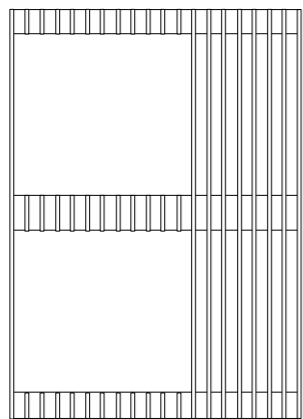
Fasader øst



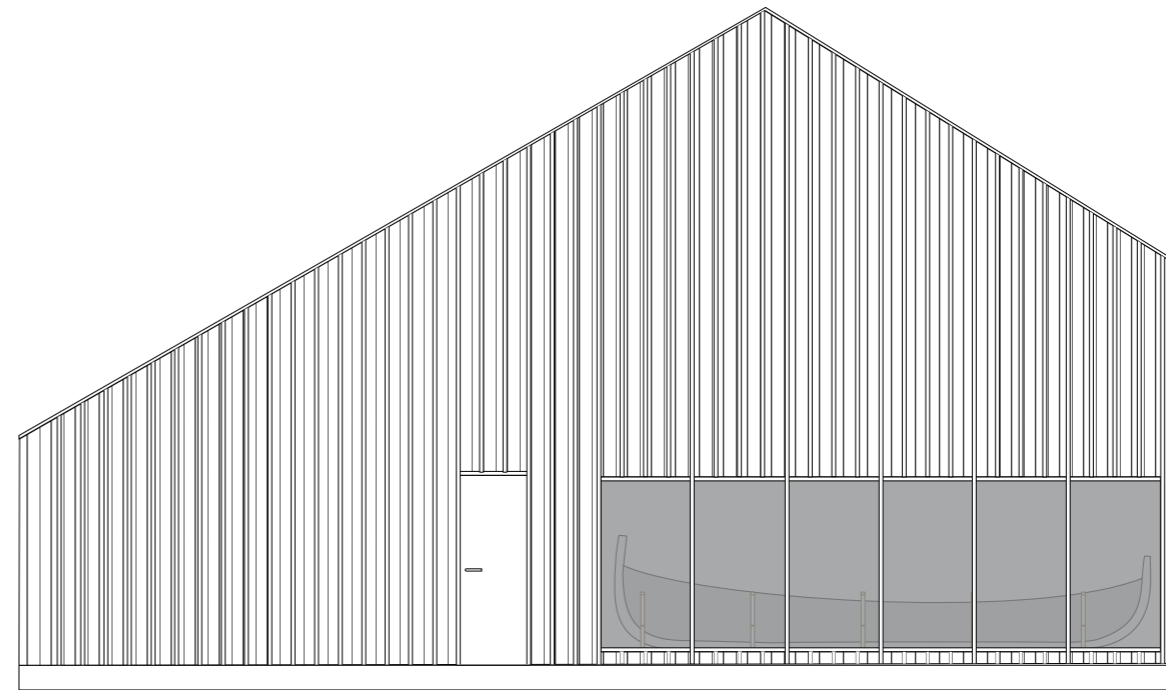
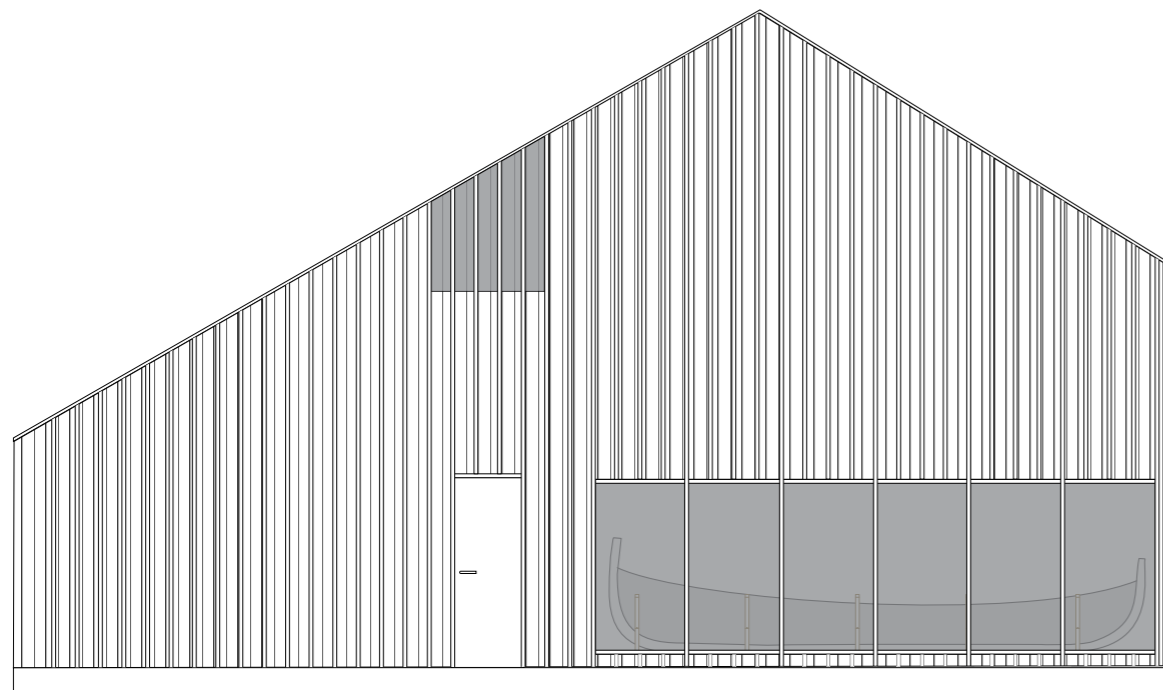
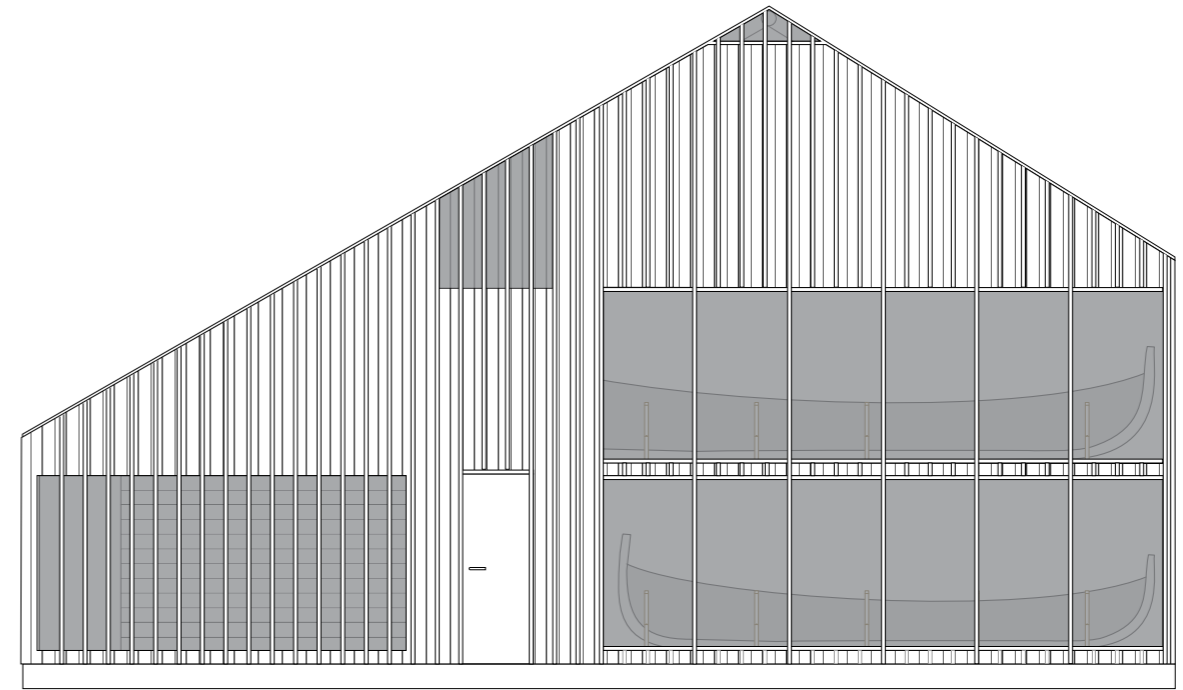
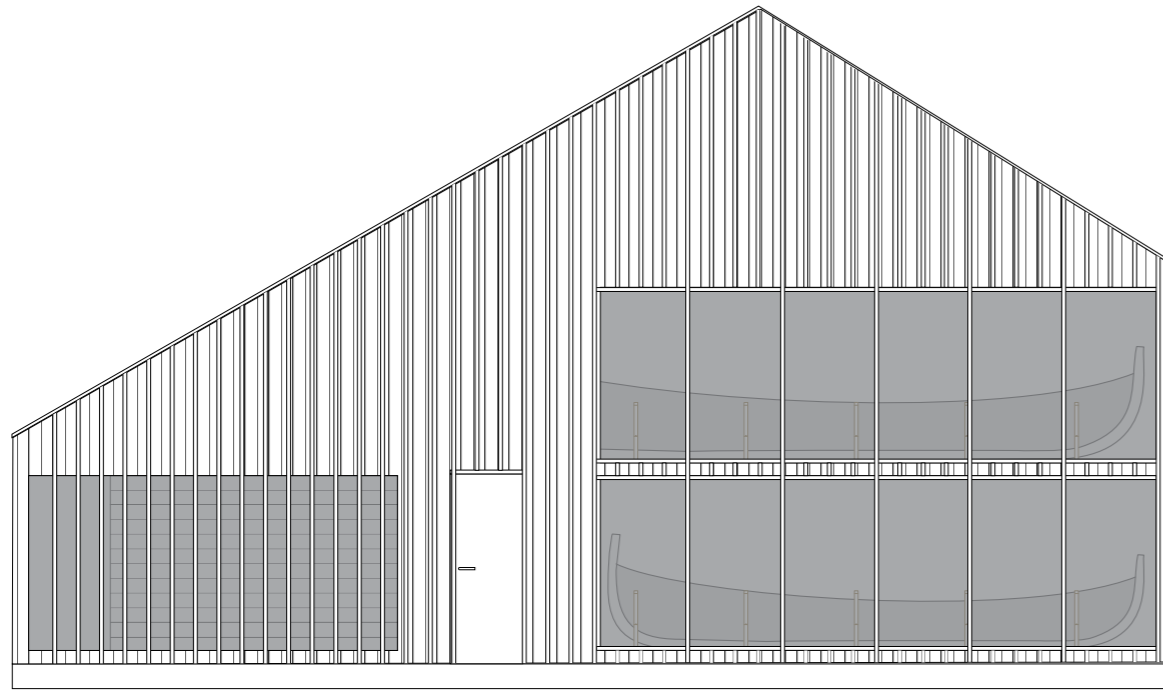
Fasader nord



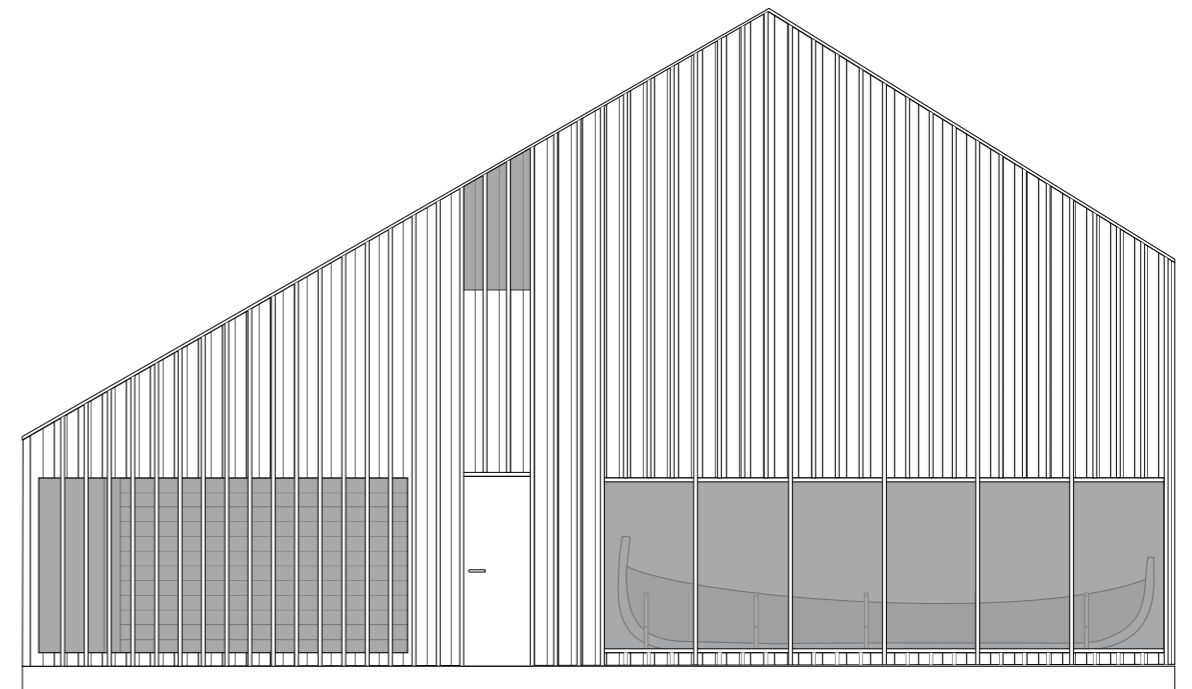
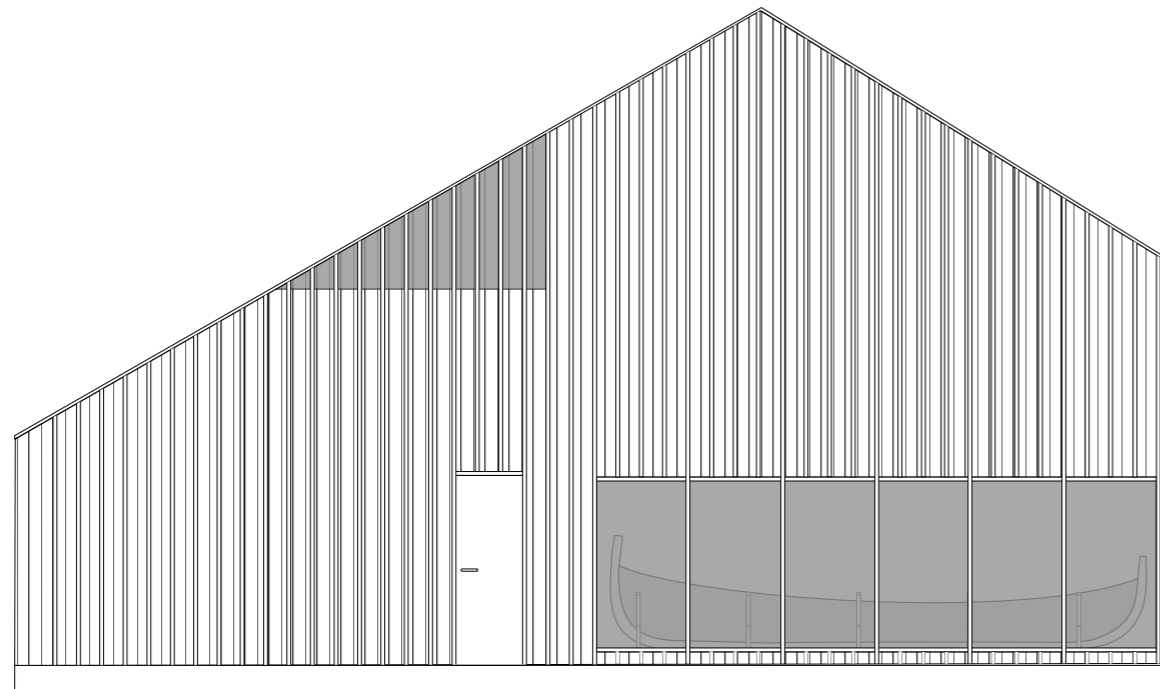
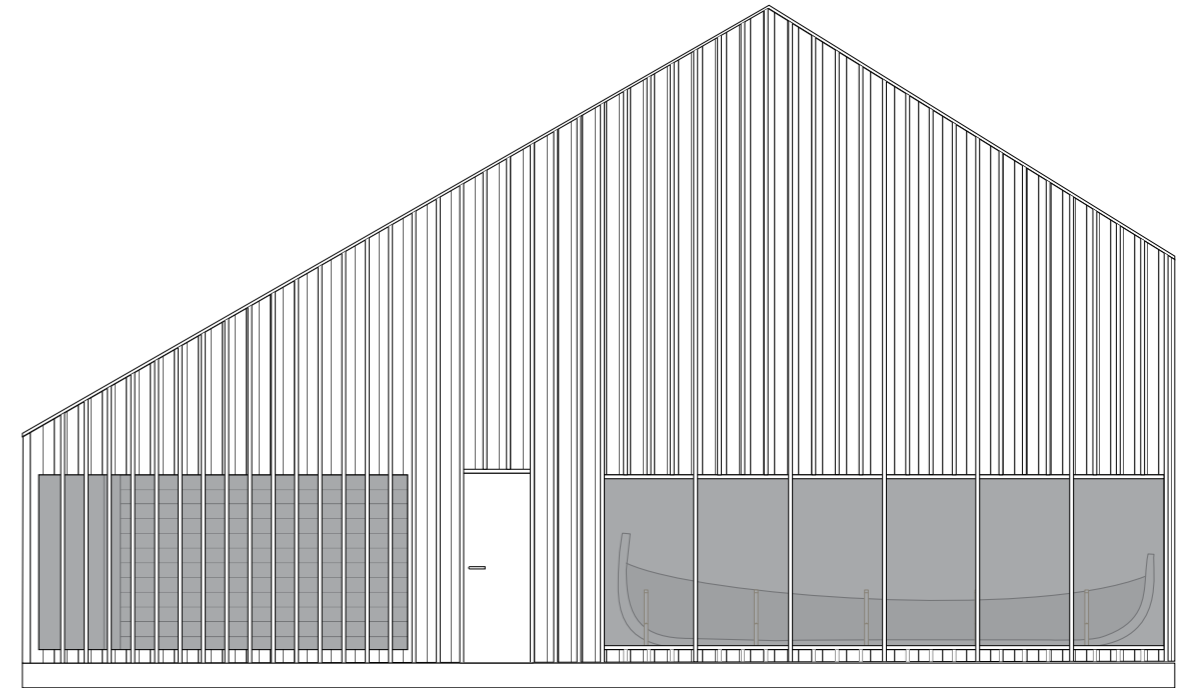
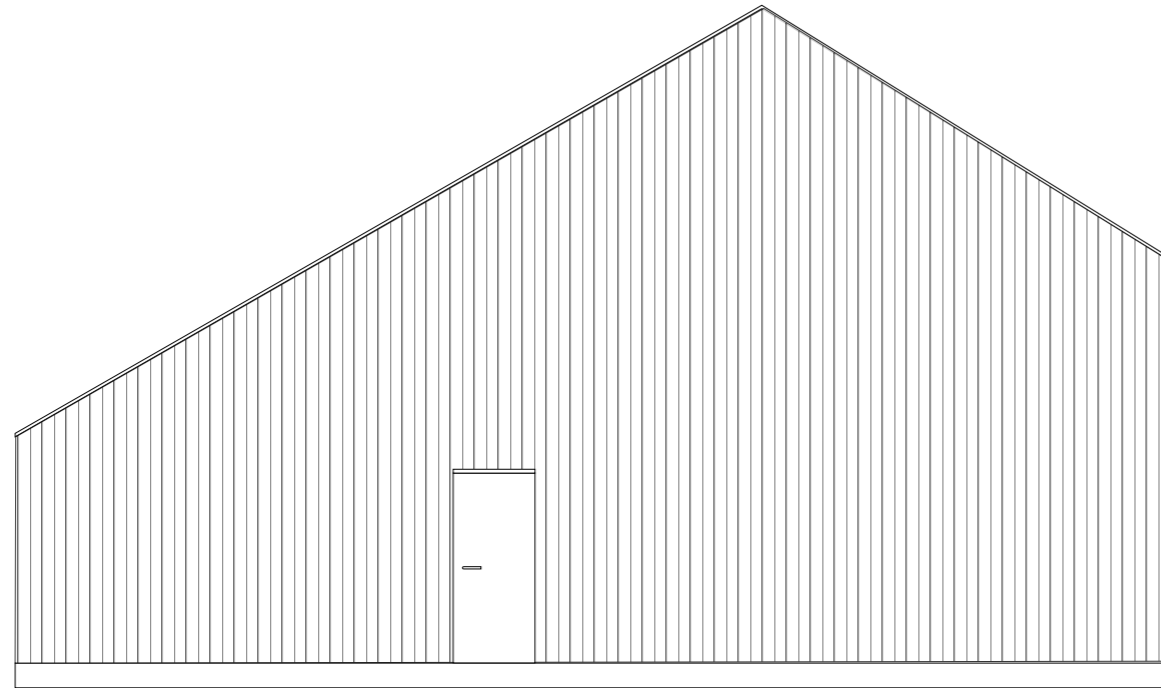
Put basic frames

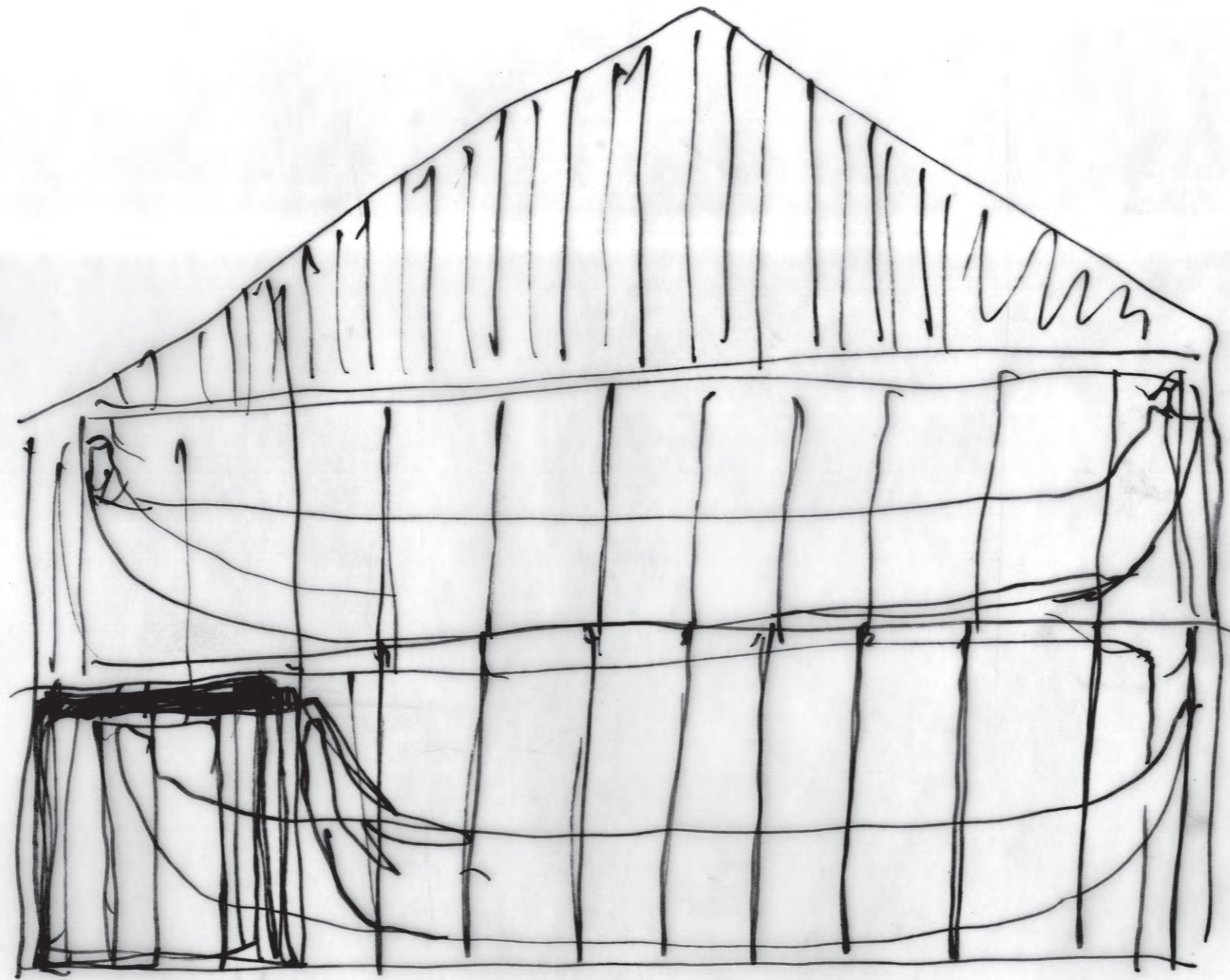


Fasader vest



Fasader vest

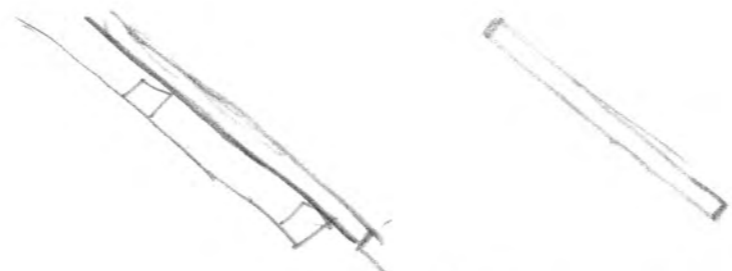




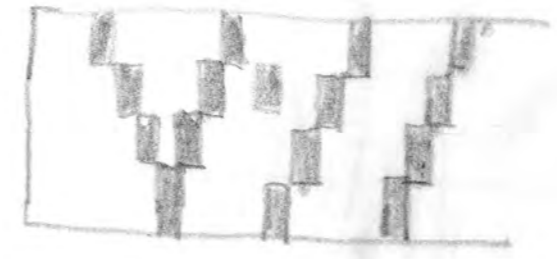
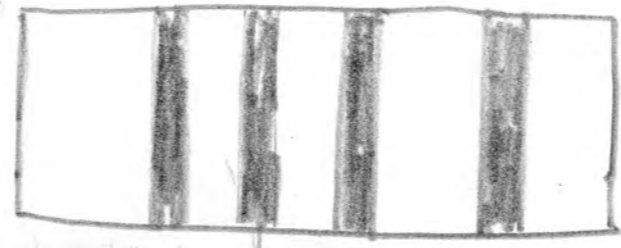
Seni
tramp

Facade øst lik dawne, bare tell

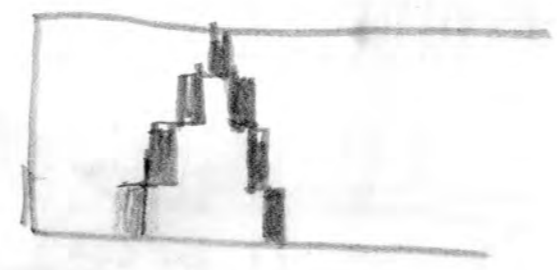
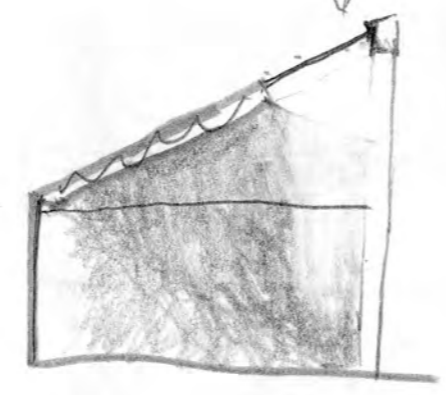
29. mars.
Facade øst.



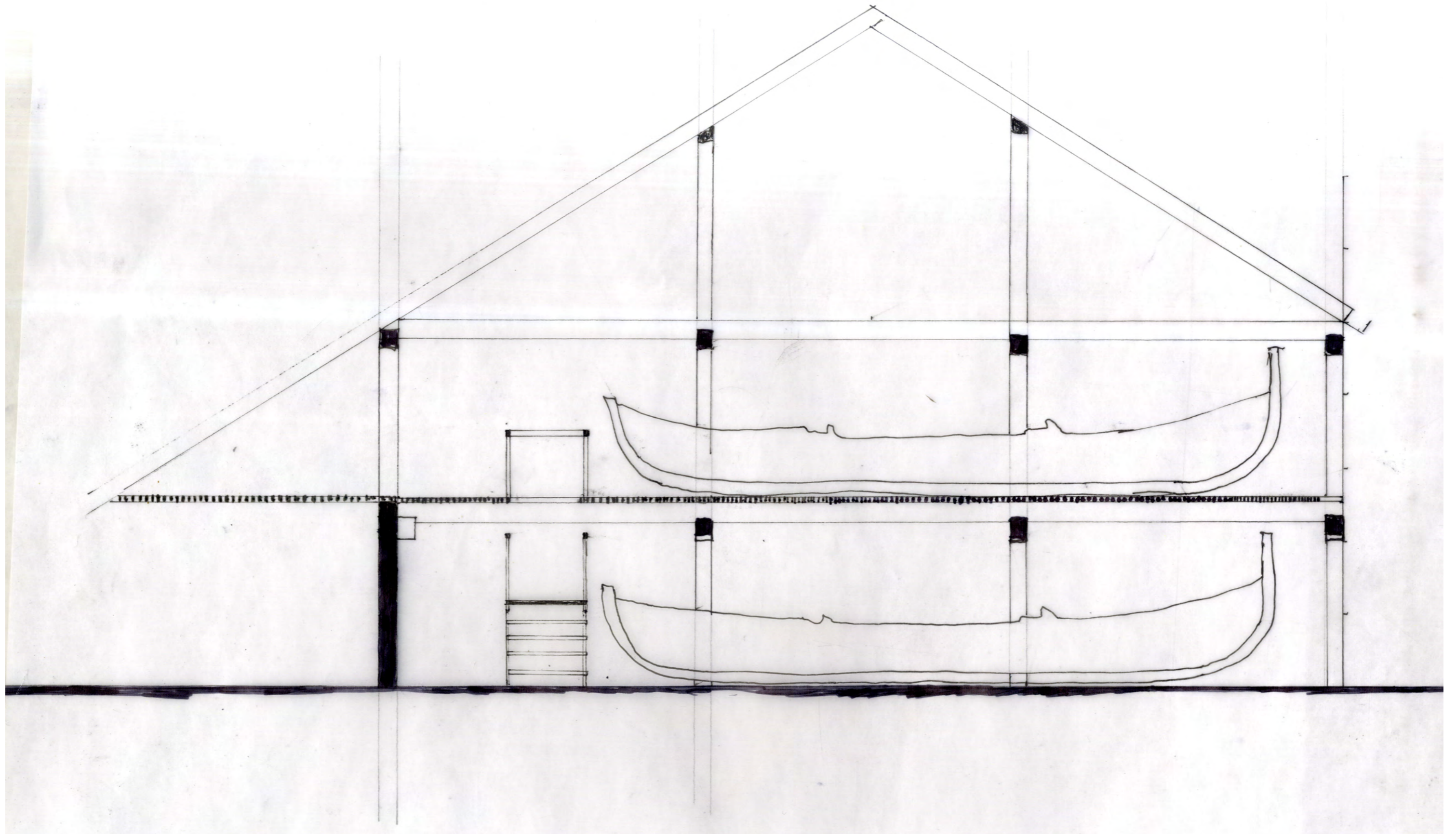
Takvindue

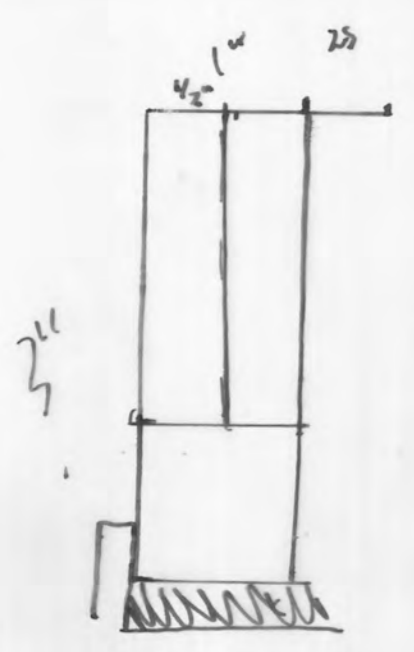


Lysvedstopp i innertilvegg

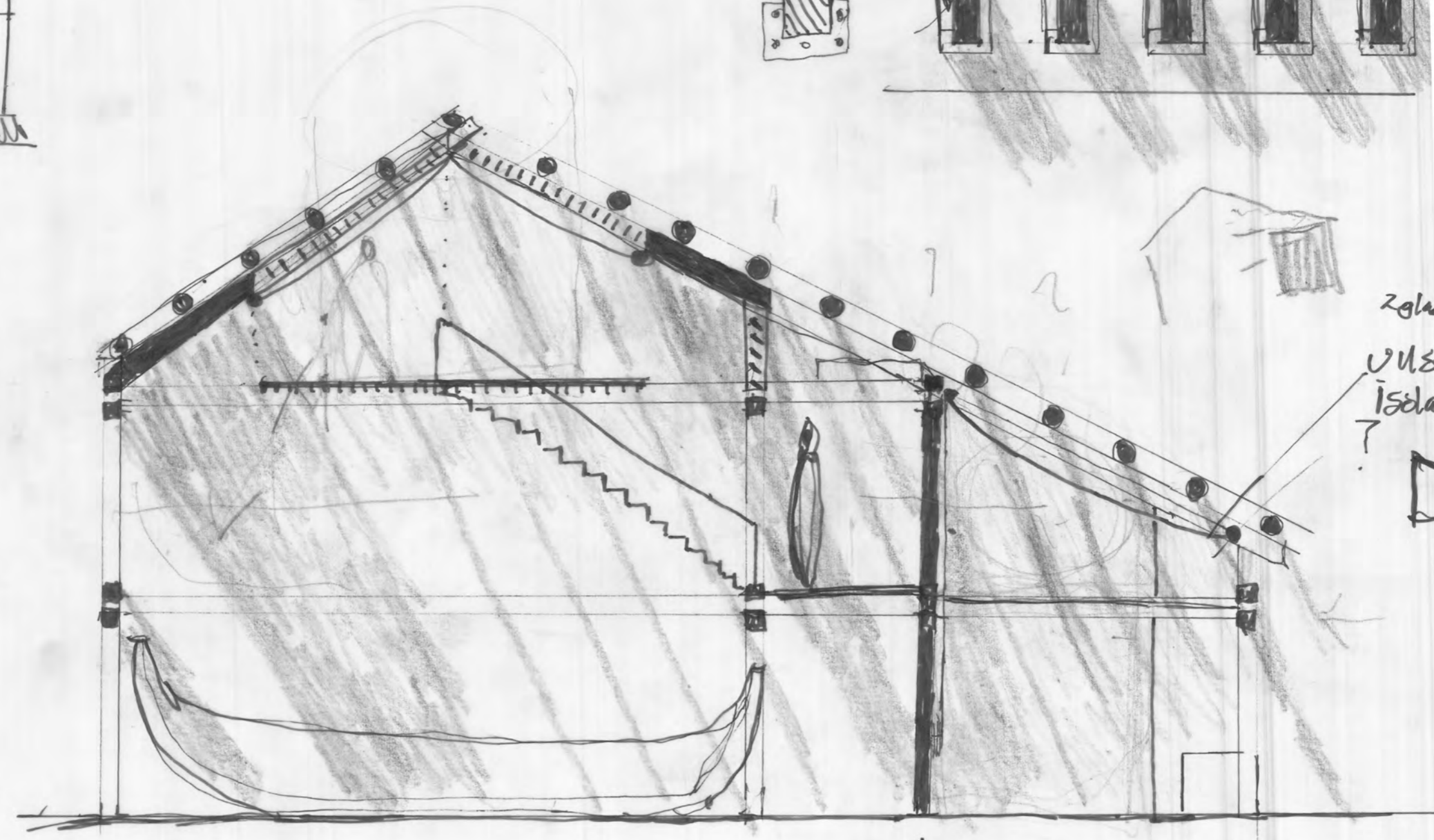
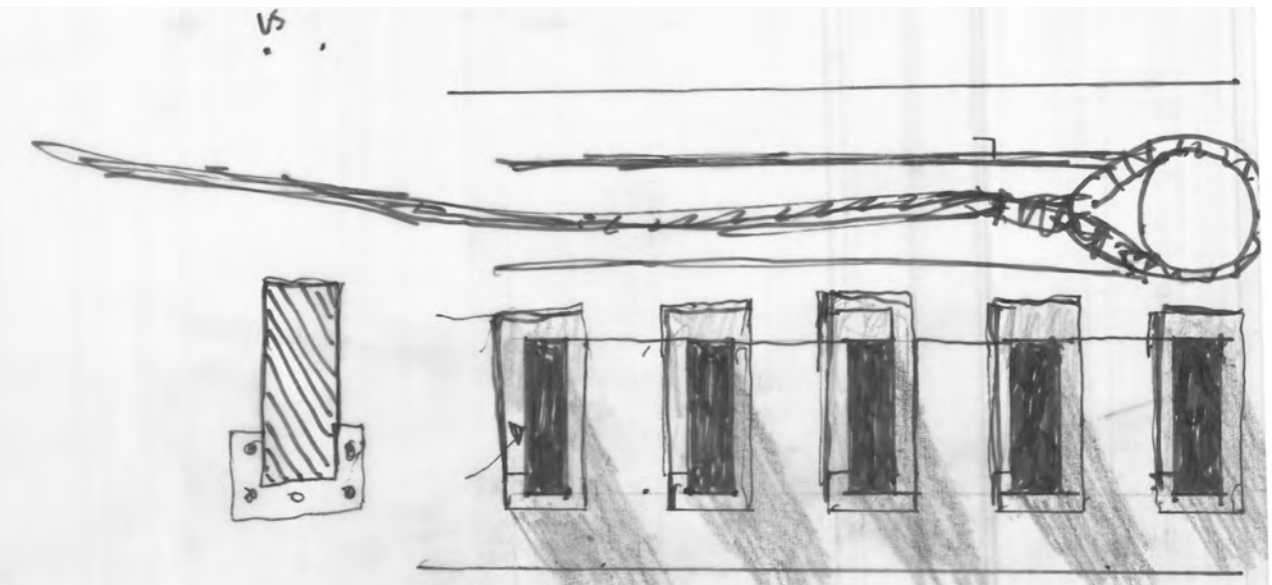


Breddesnitt



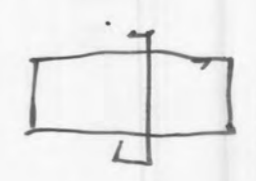


Kontakt für bwa.

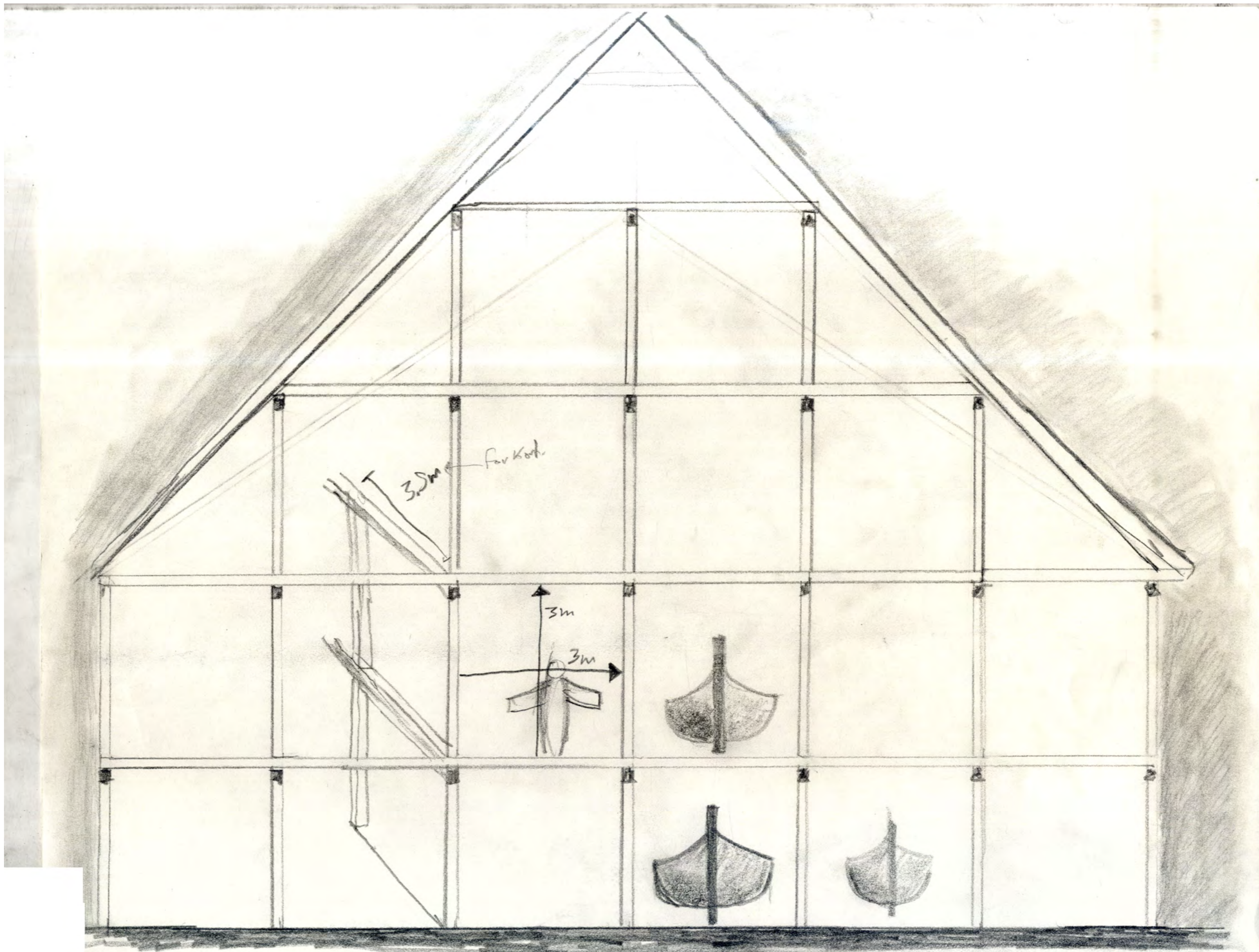


Zelle
VUS
Isola

↑
Startweg!

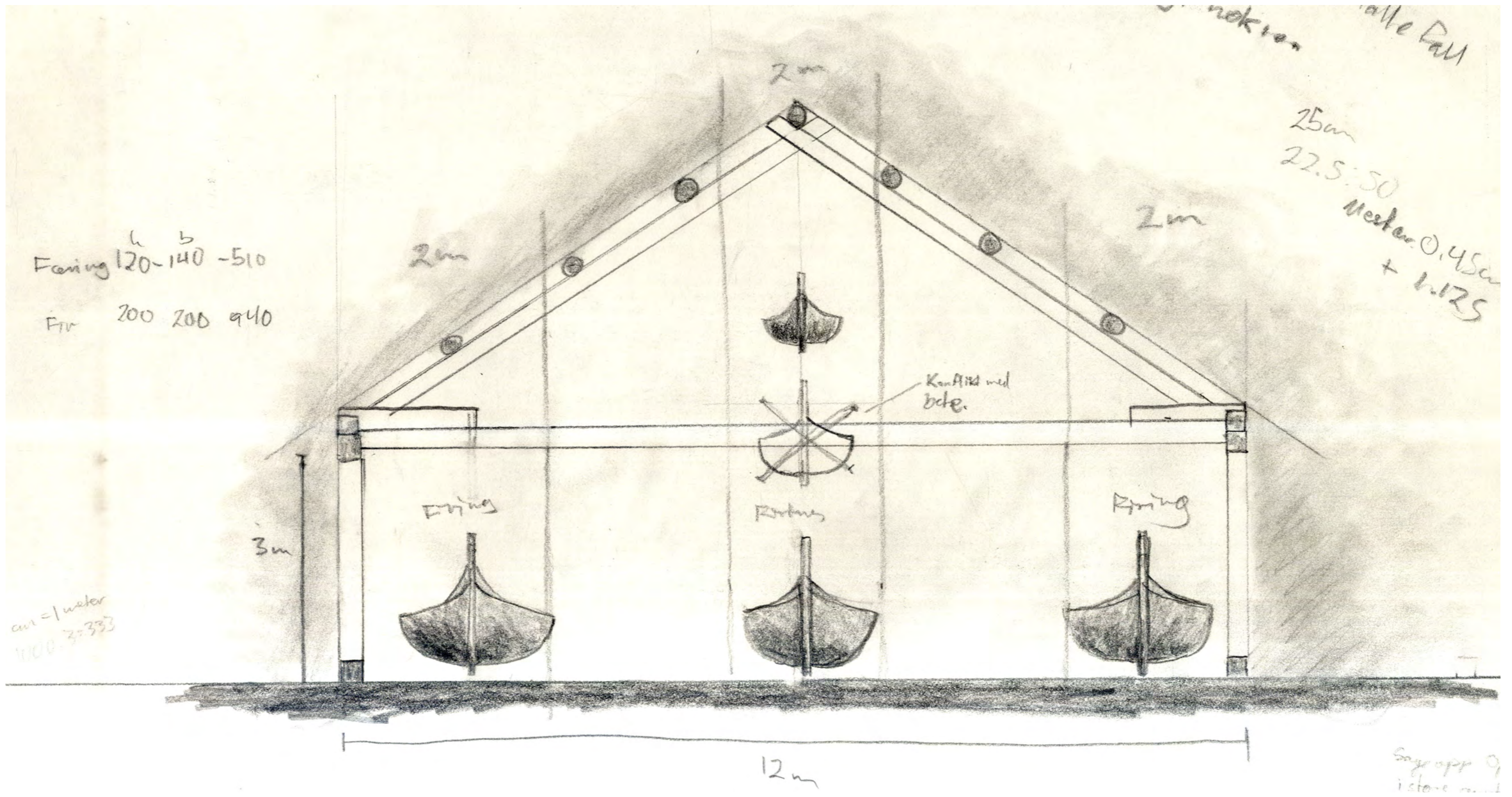


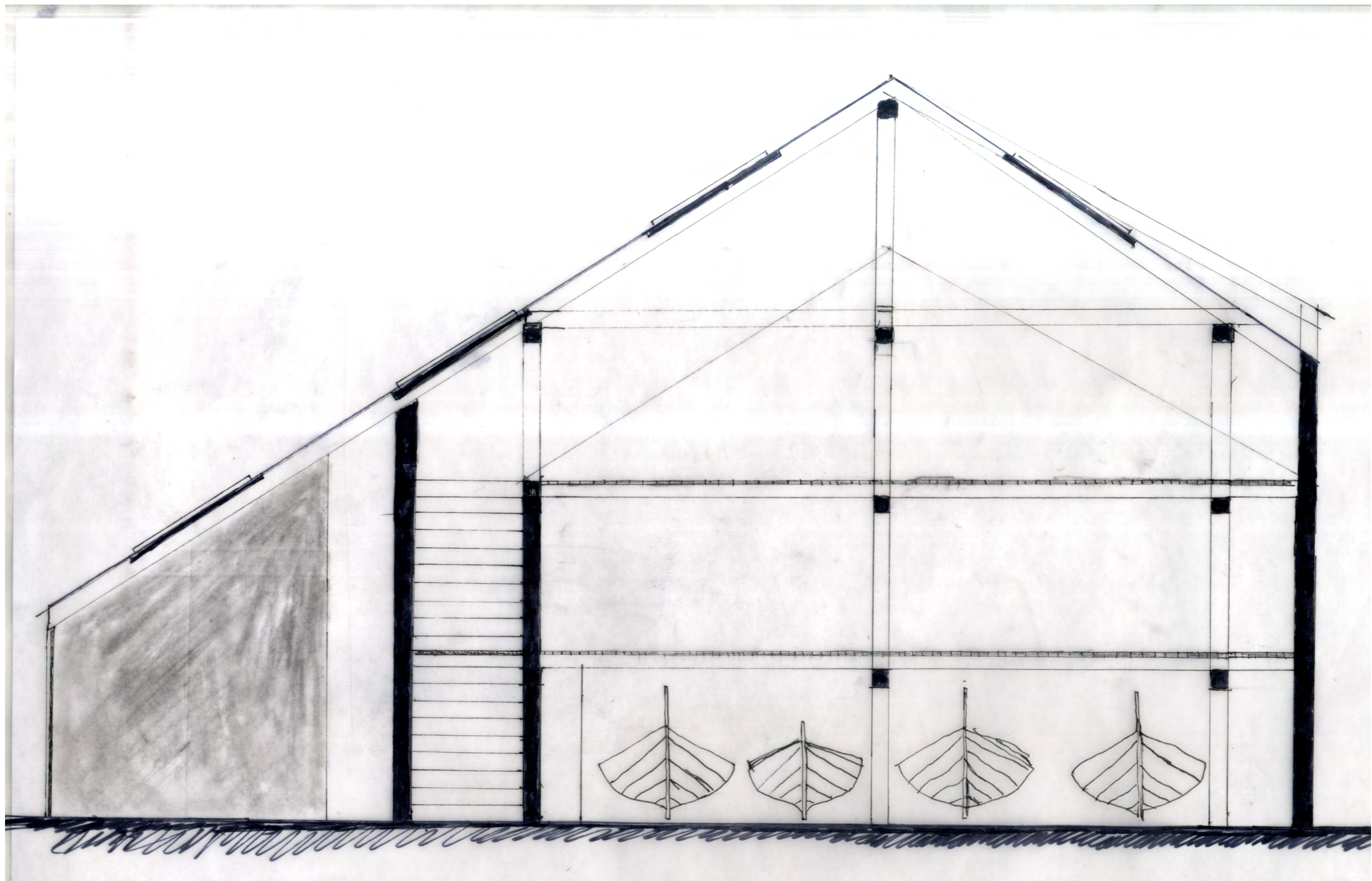
Saune
Switt & 1:50
29.

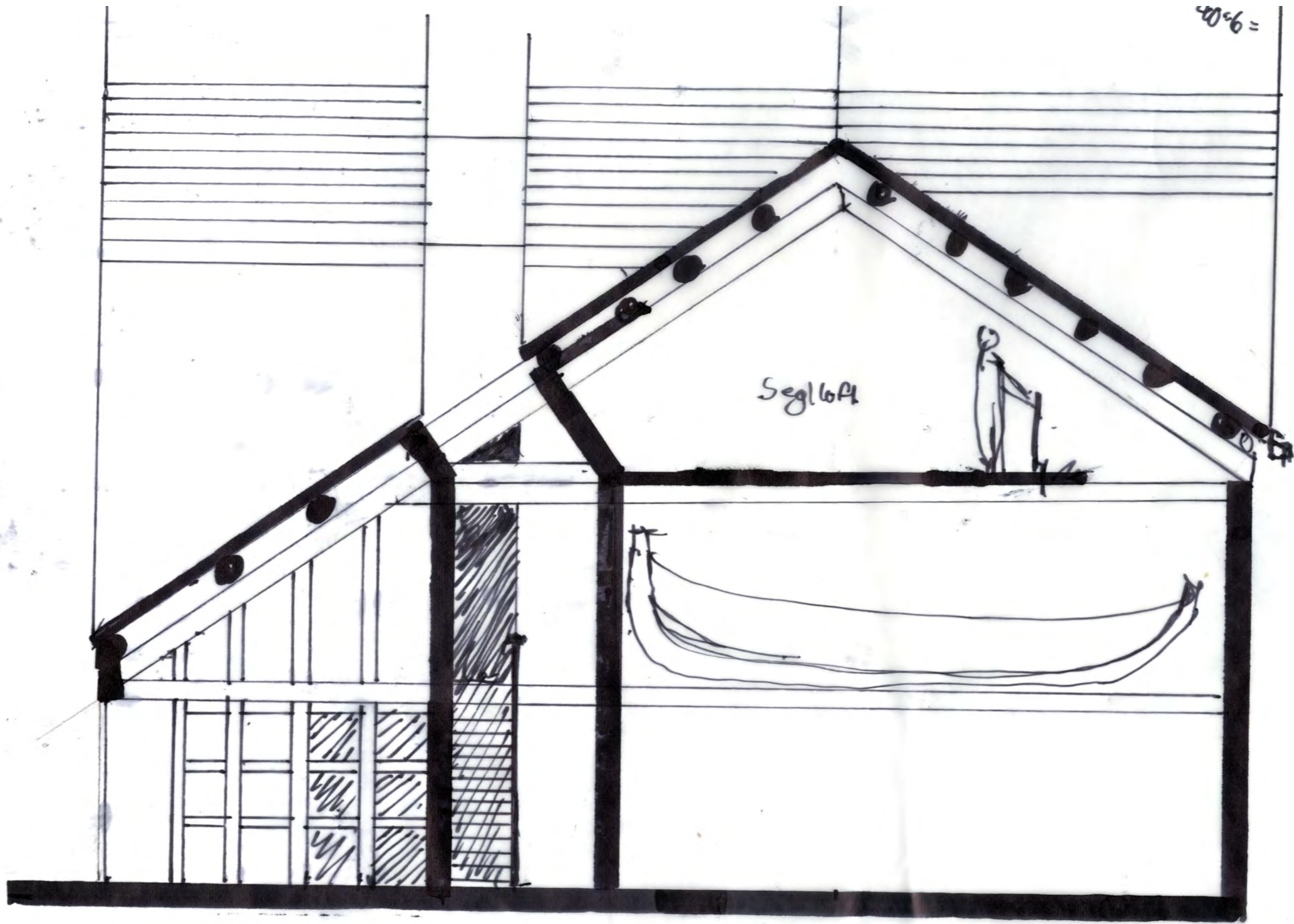


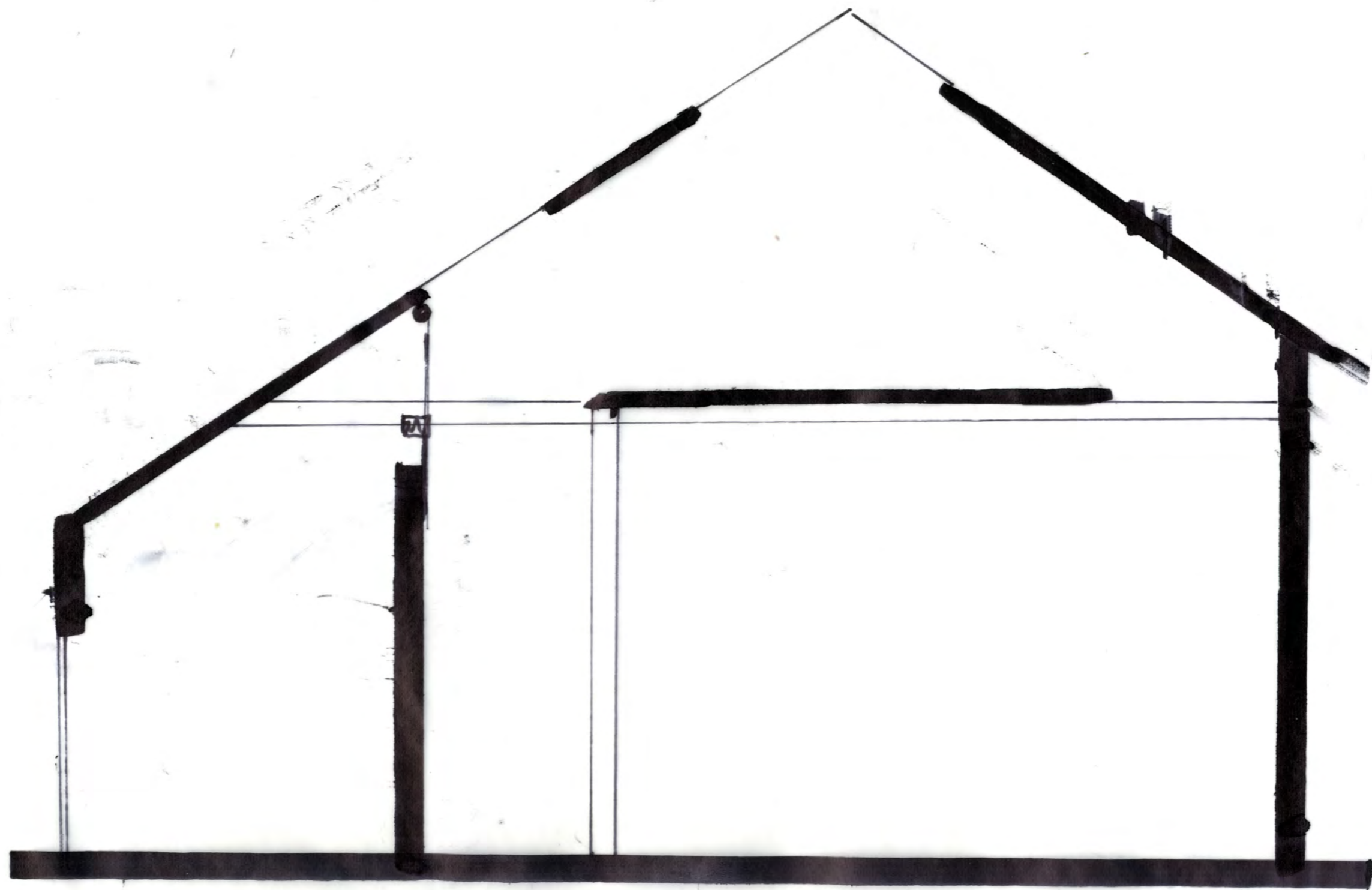
filpasse ein firing 9m lang Zuberi

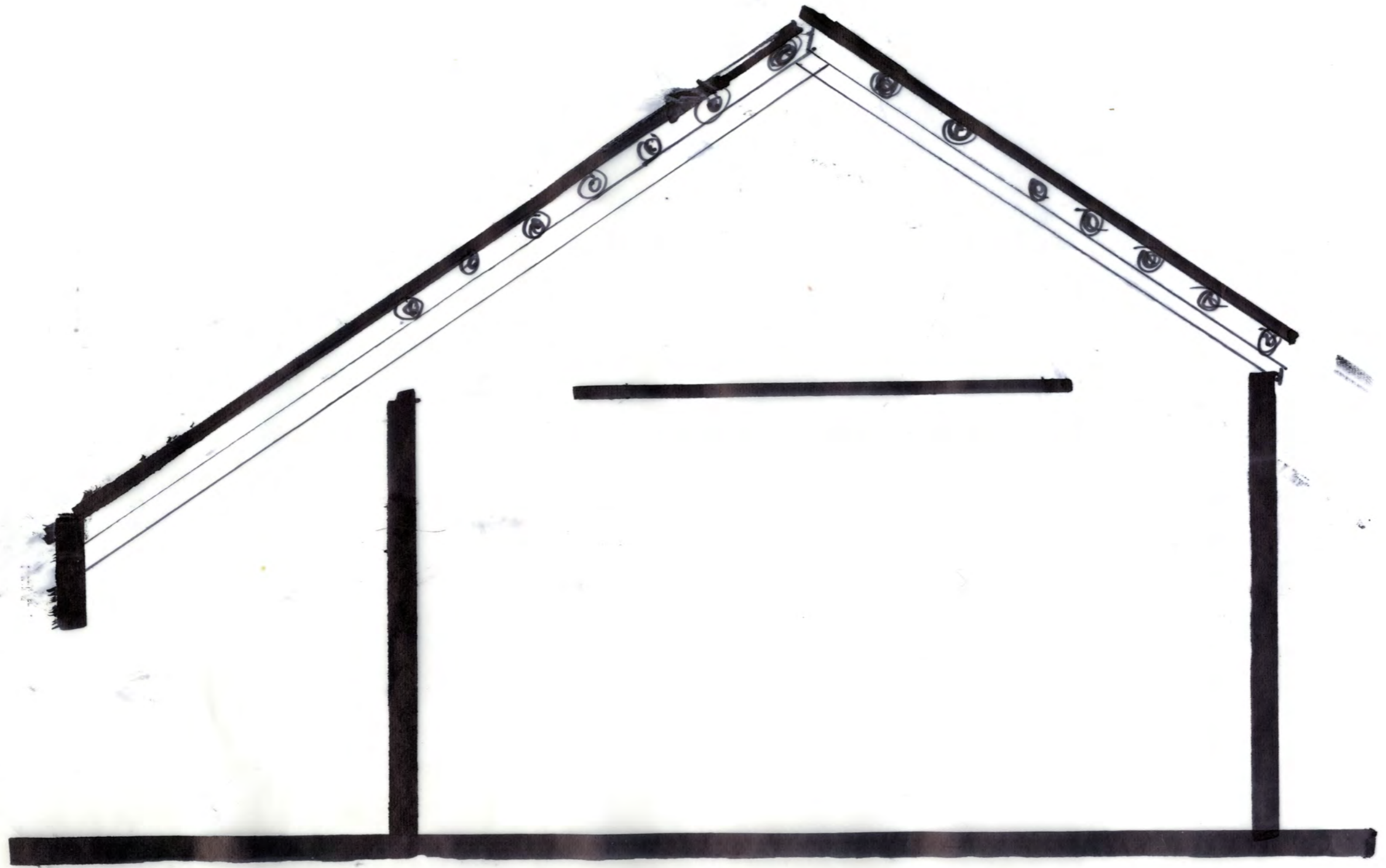
Vel del 1

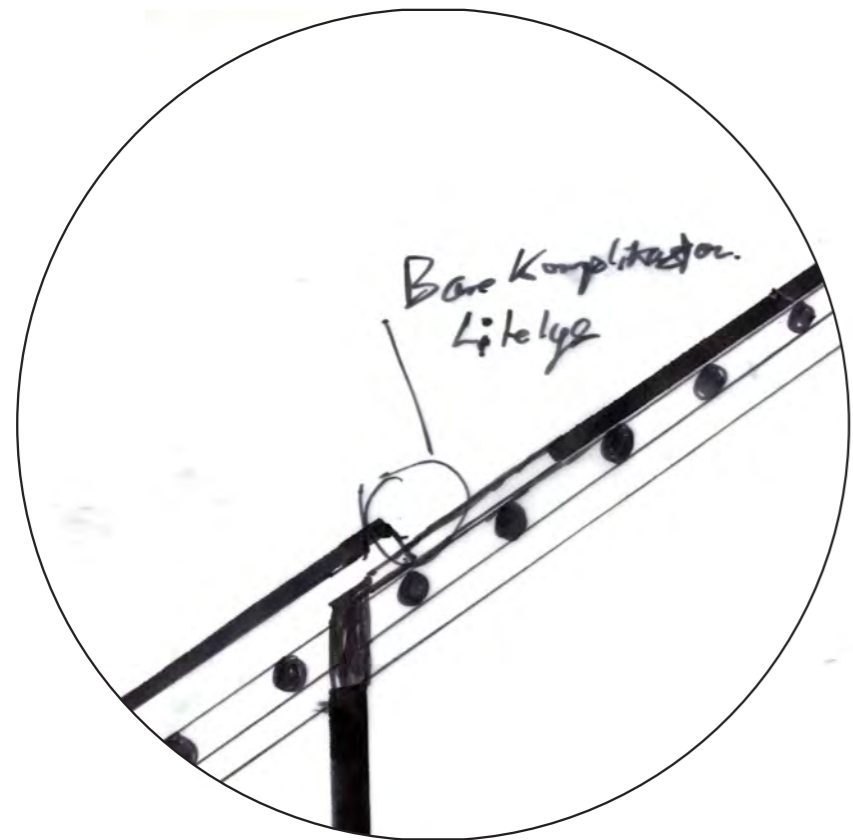






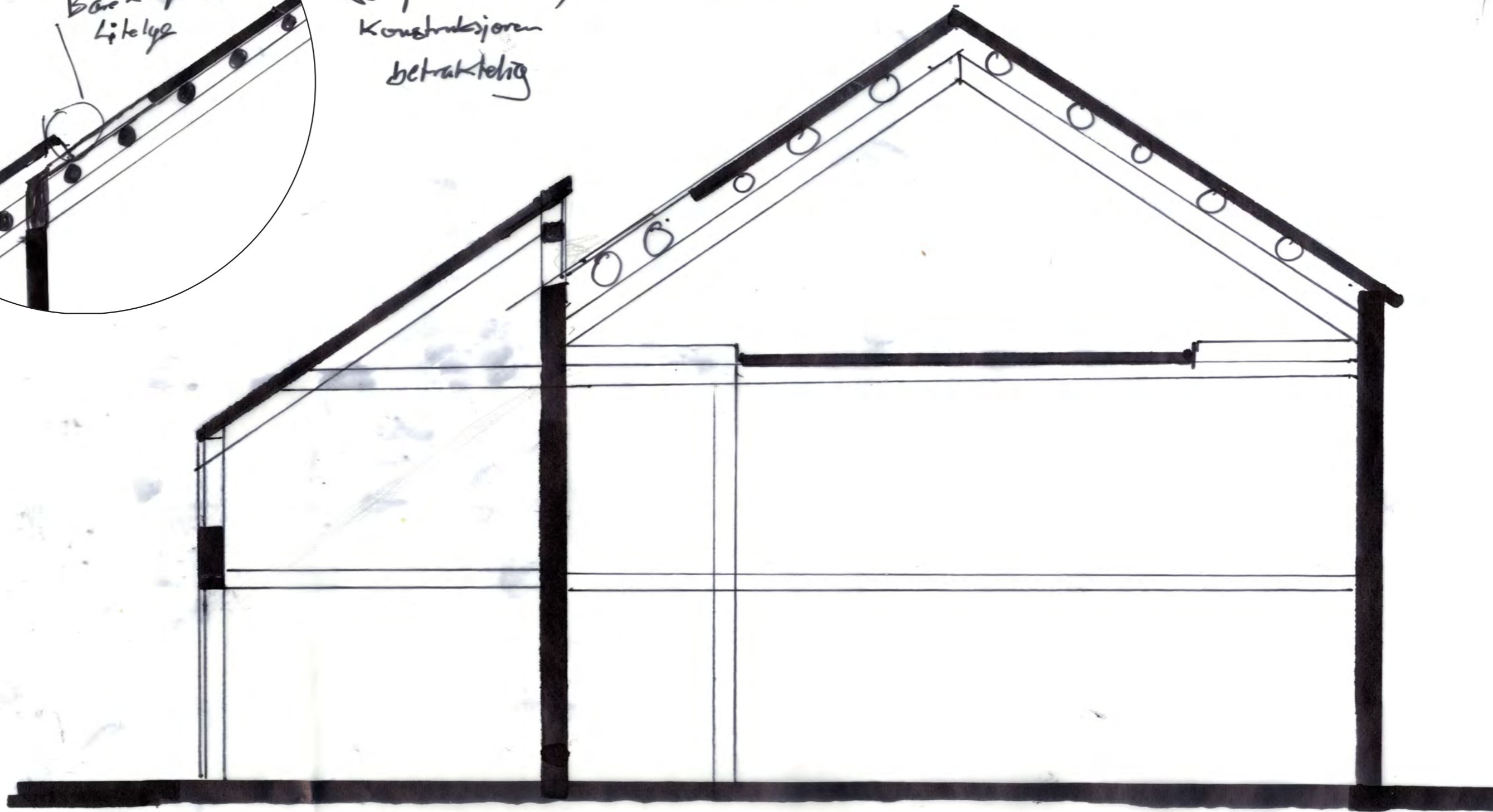


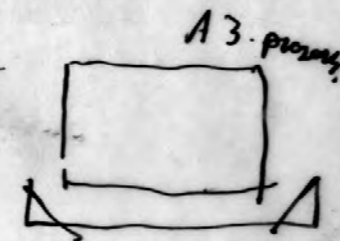
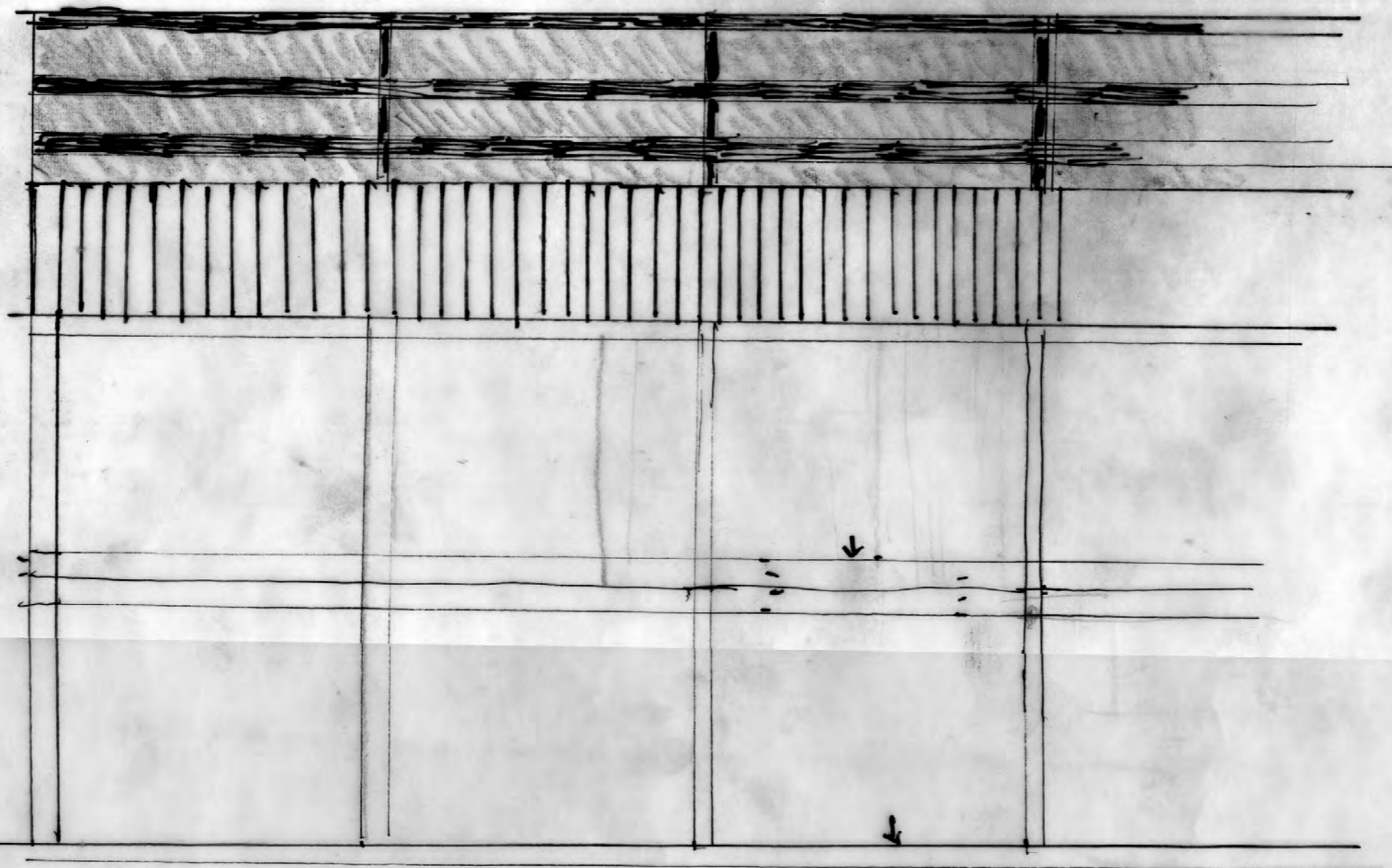
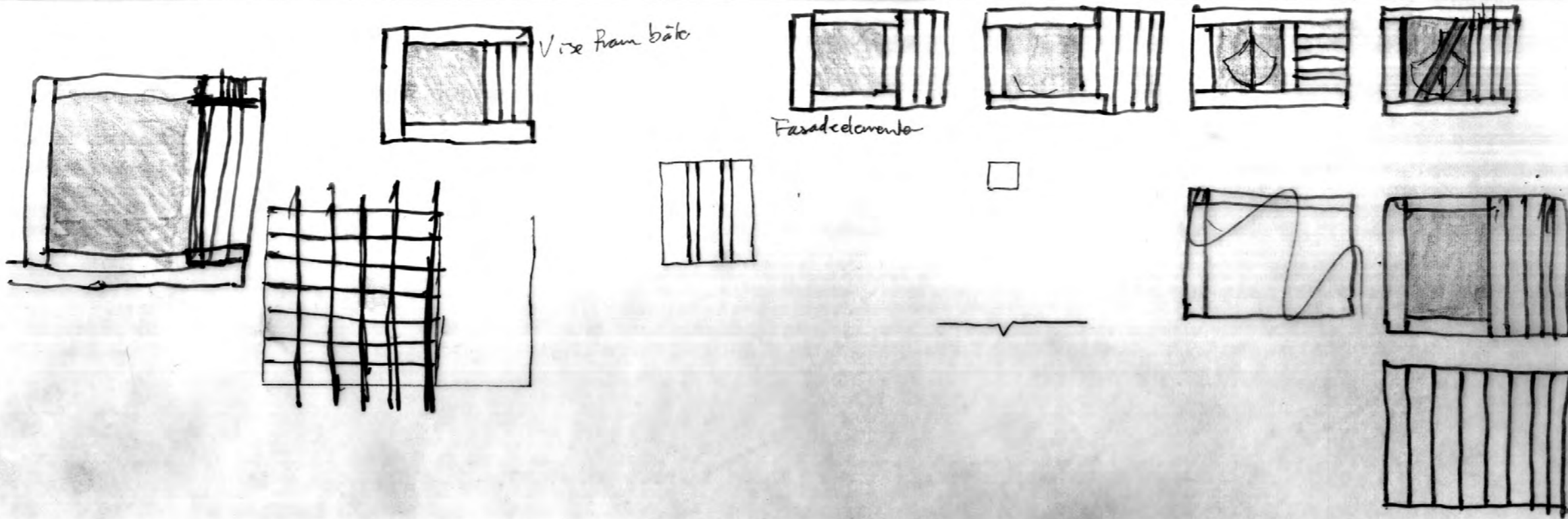




Komplisere
Konstruksjonen
betraktelig

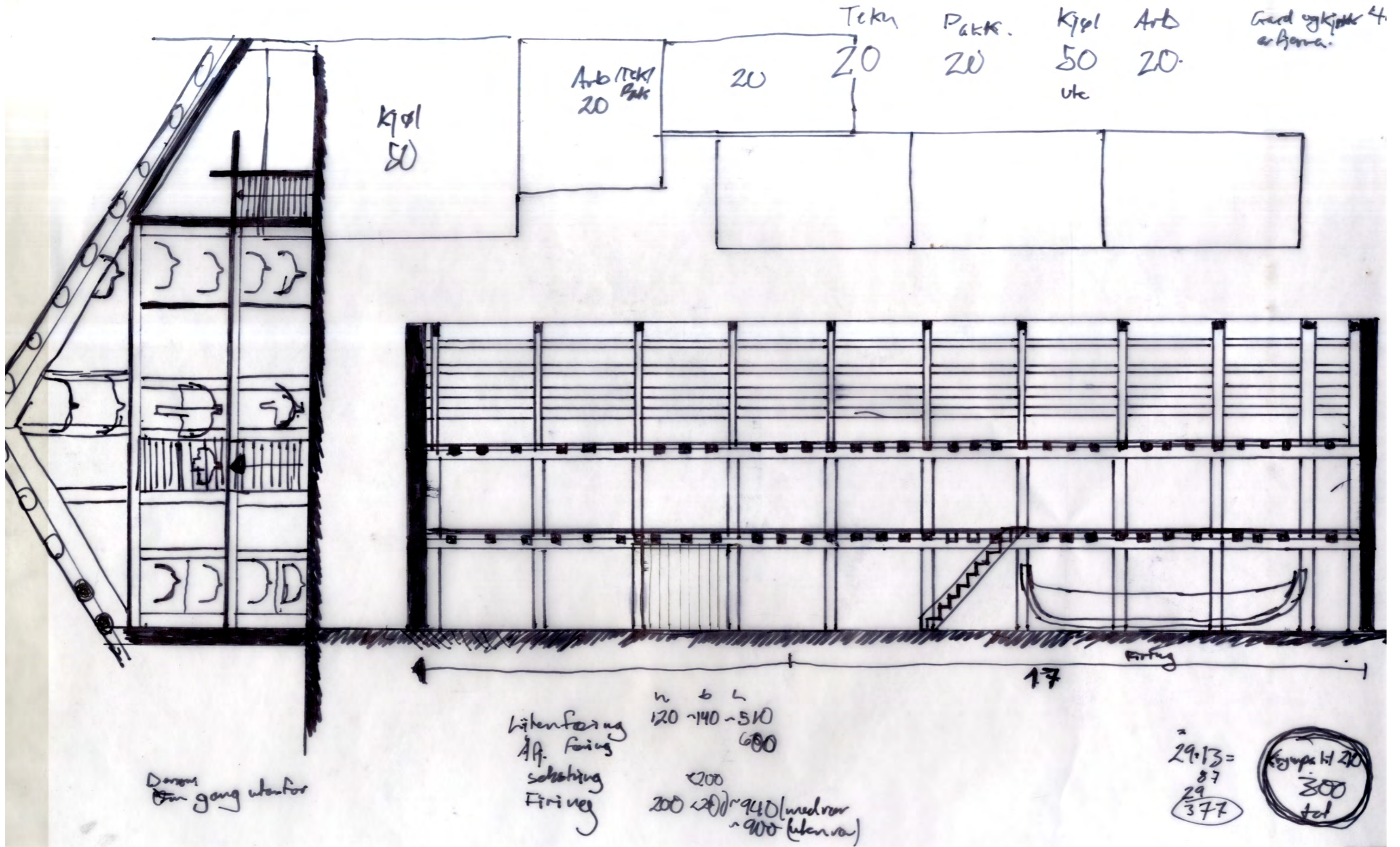
Løfte ved
høyre side!

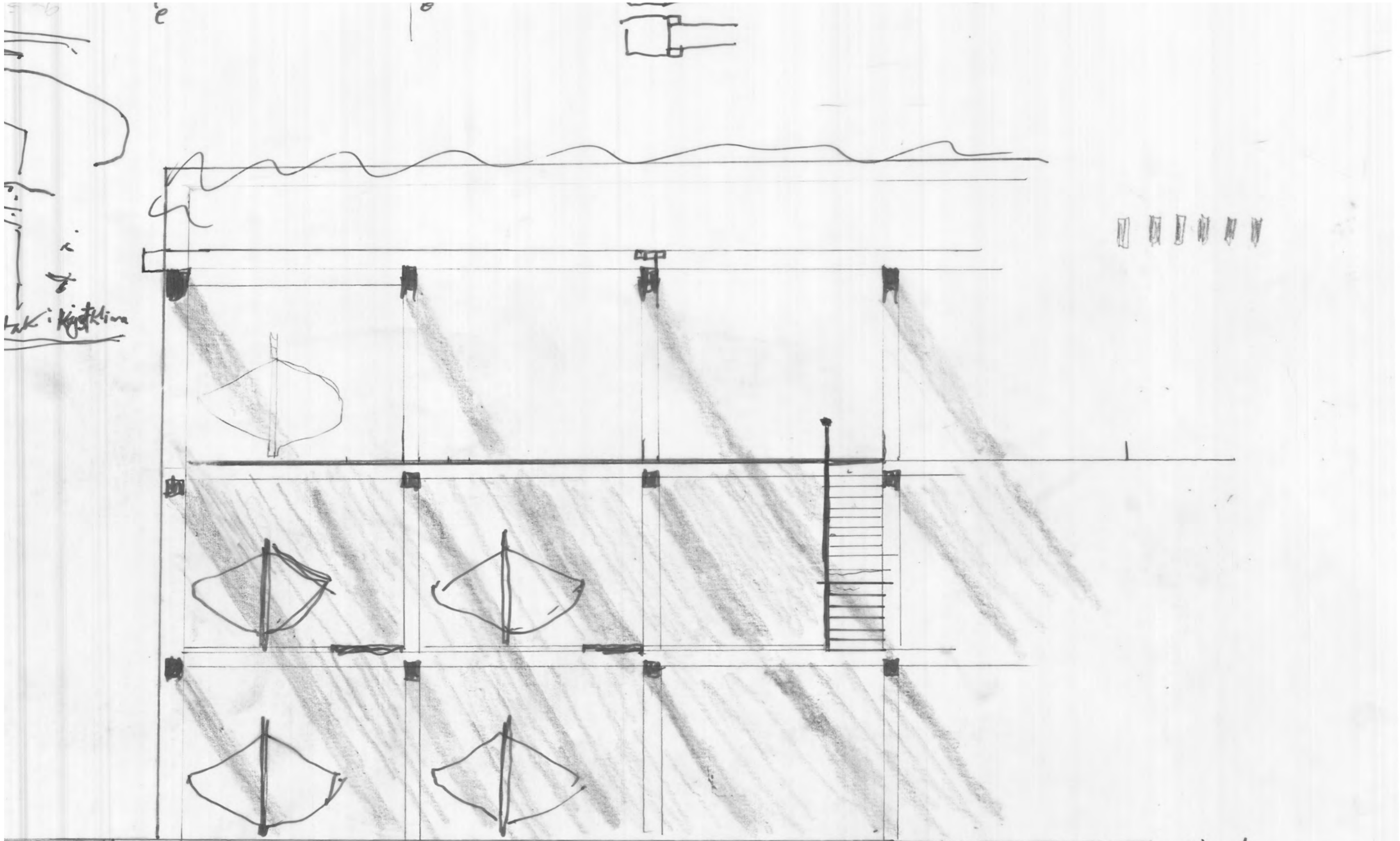




Langsnitt

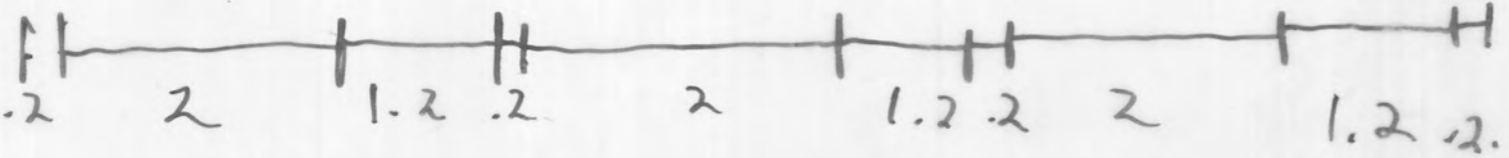
1:50
 Fasad og
 29. mars





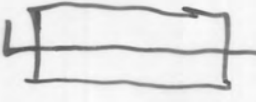
tak i kjøtline

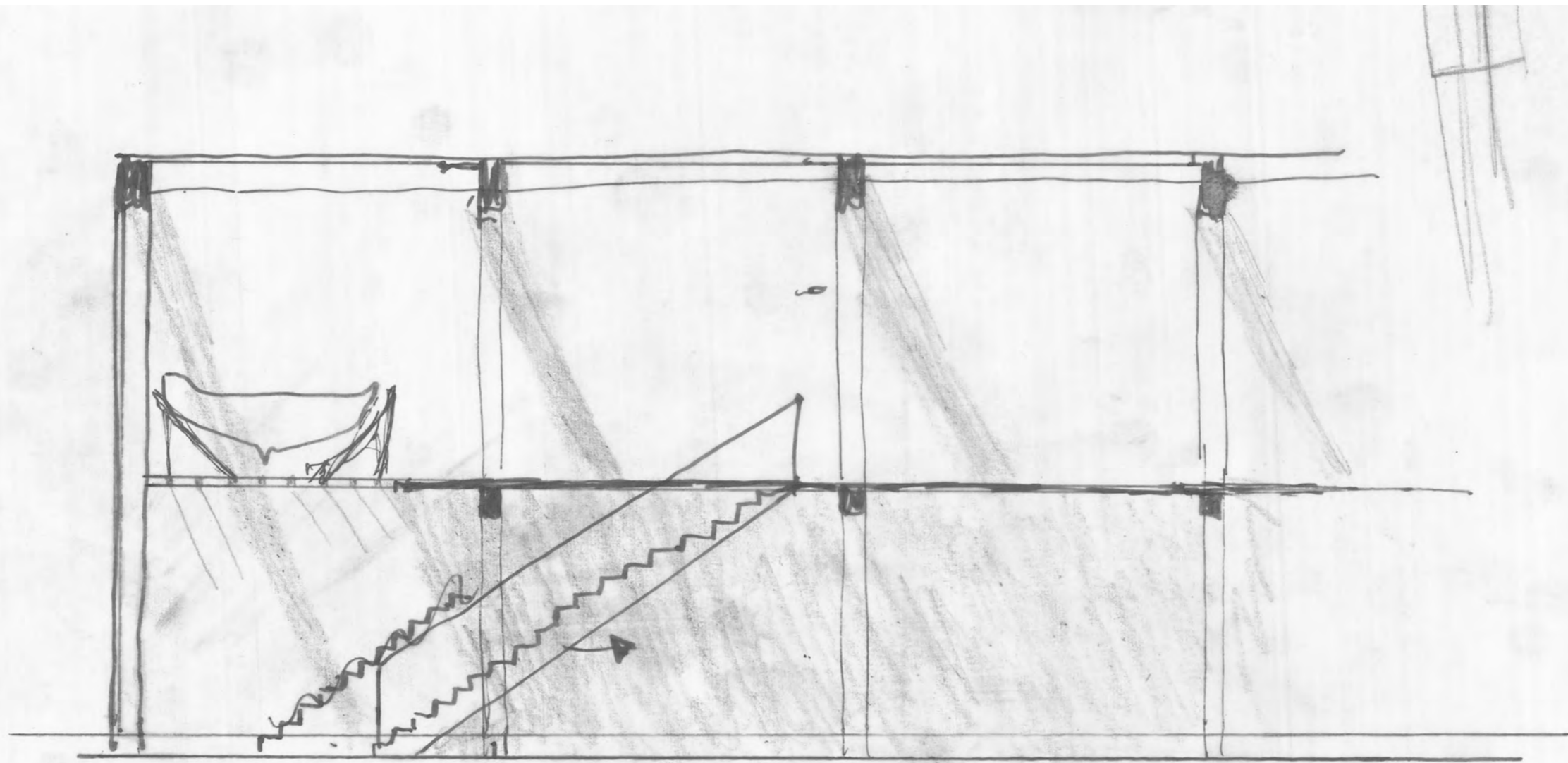
1:50



A

skisse A
1:50
29. mars

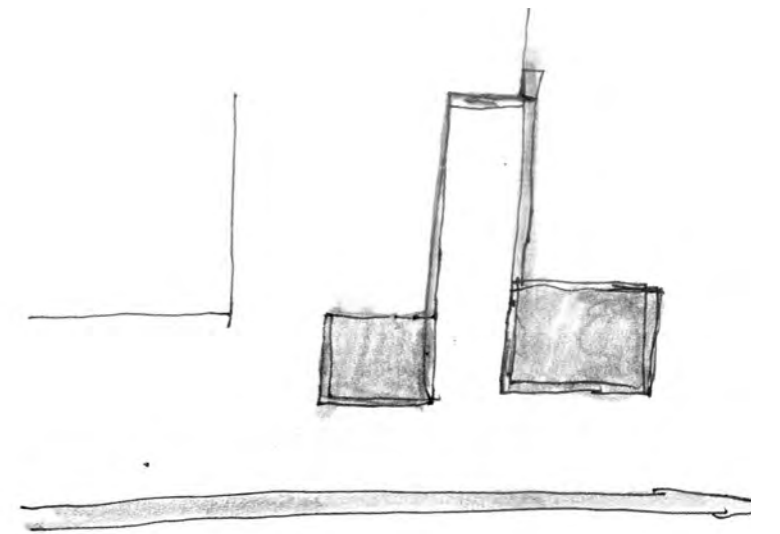
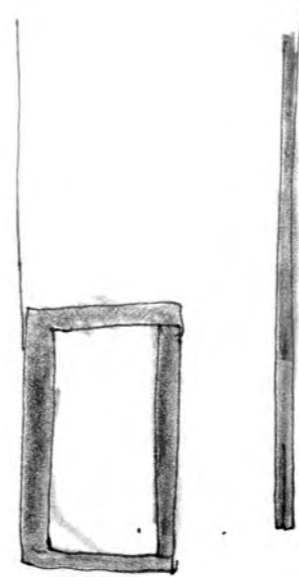
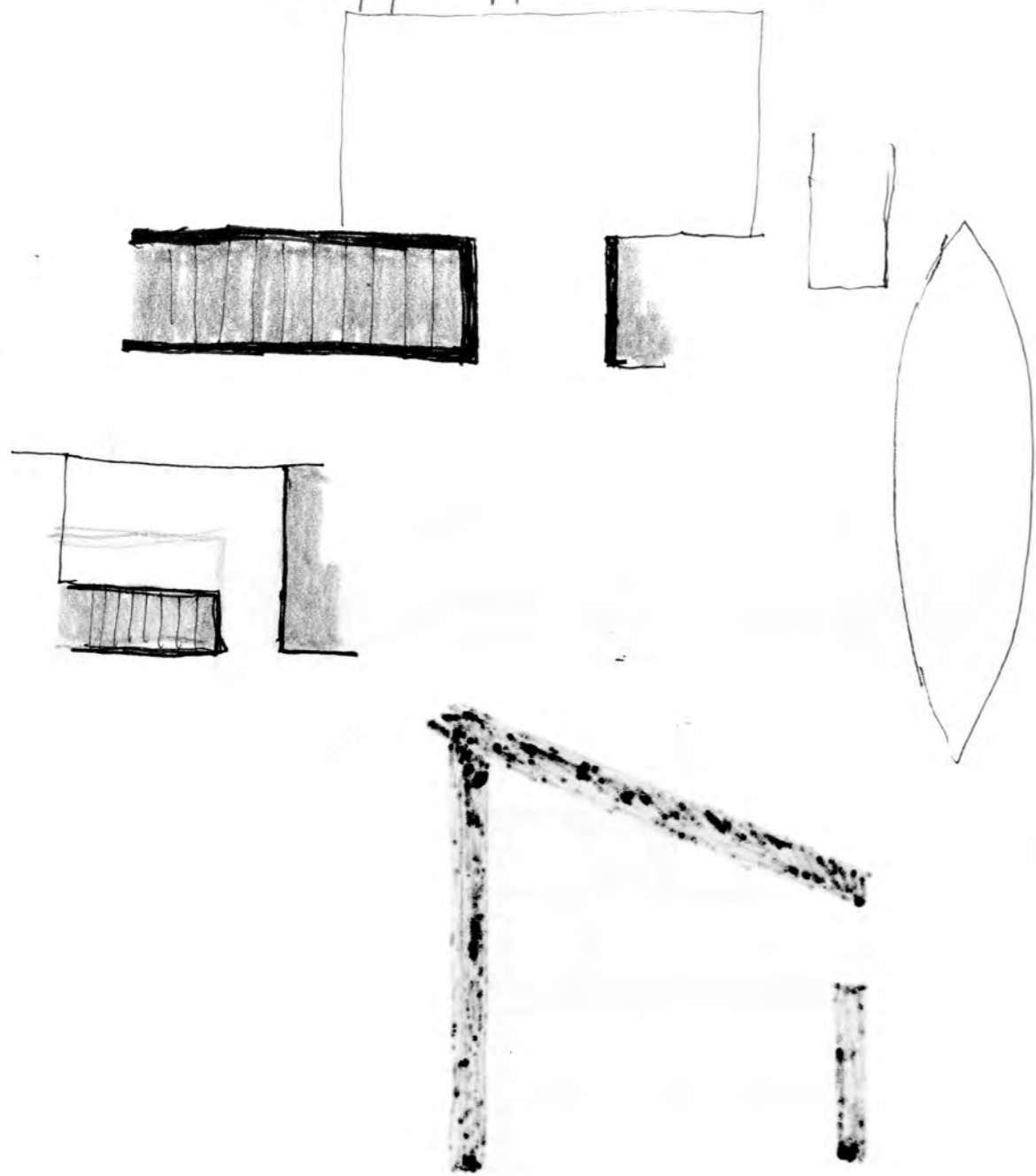




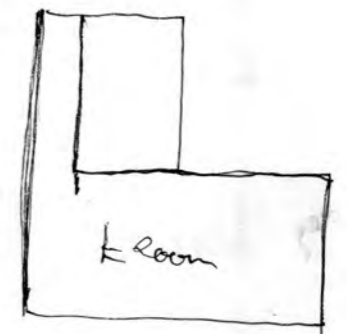
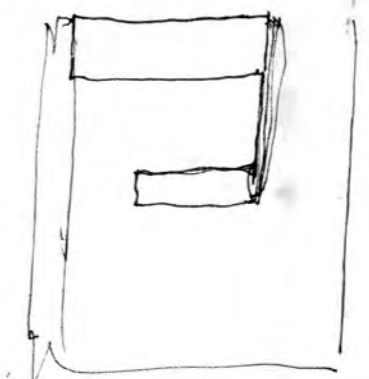
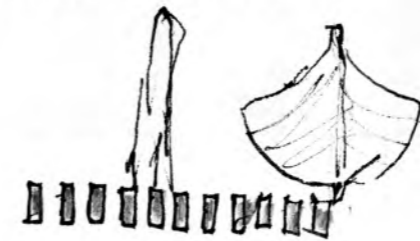
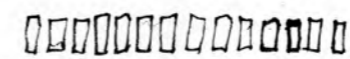
B

Section B
29-mars 1:50

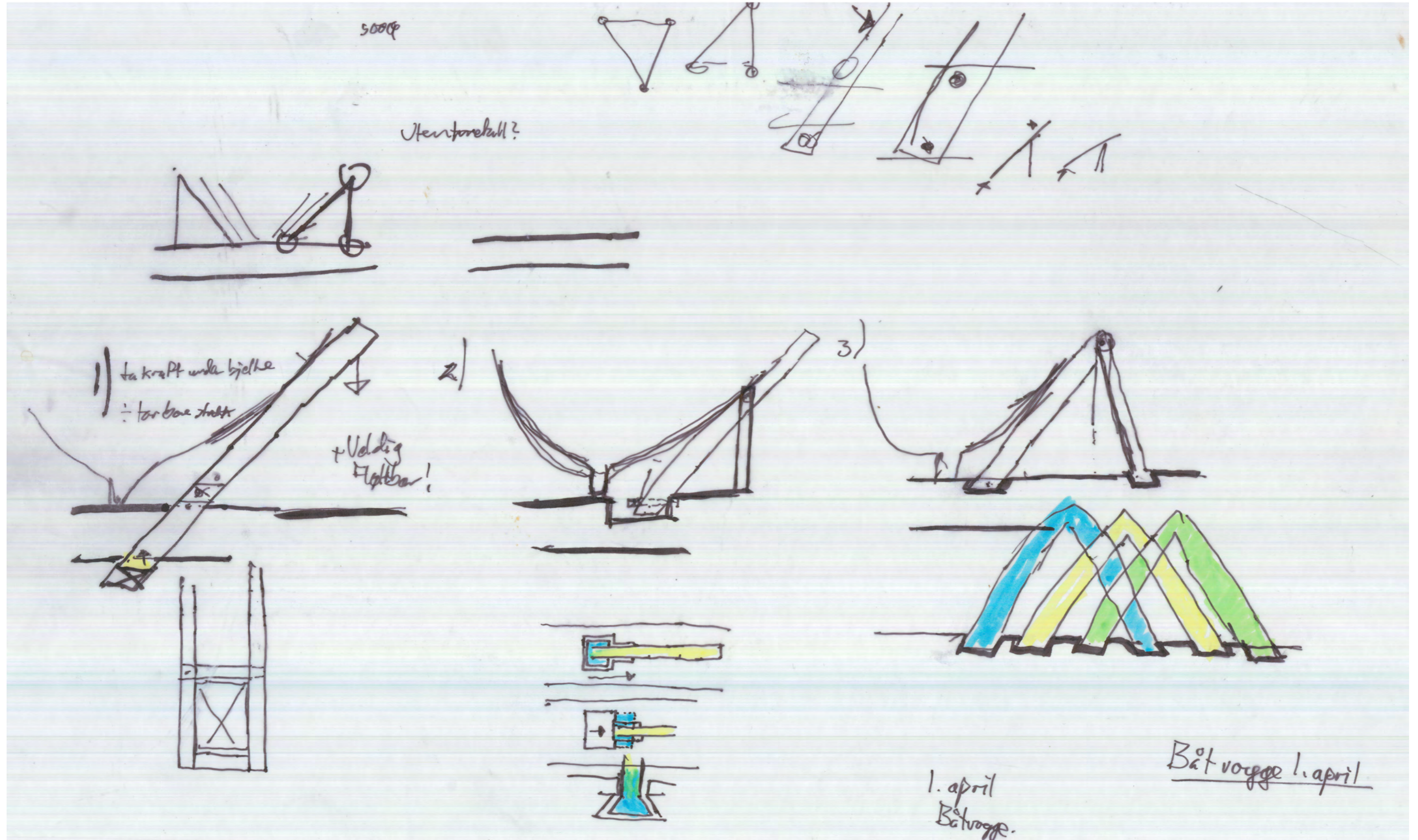
Trapp opphe båtdekk



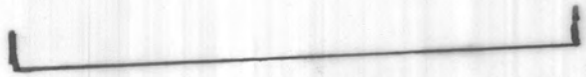
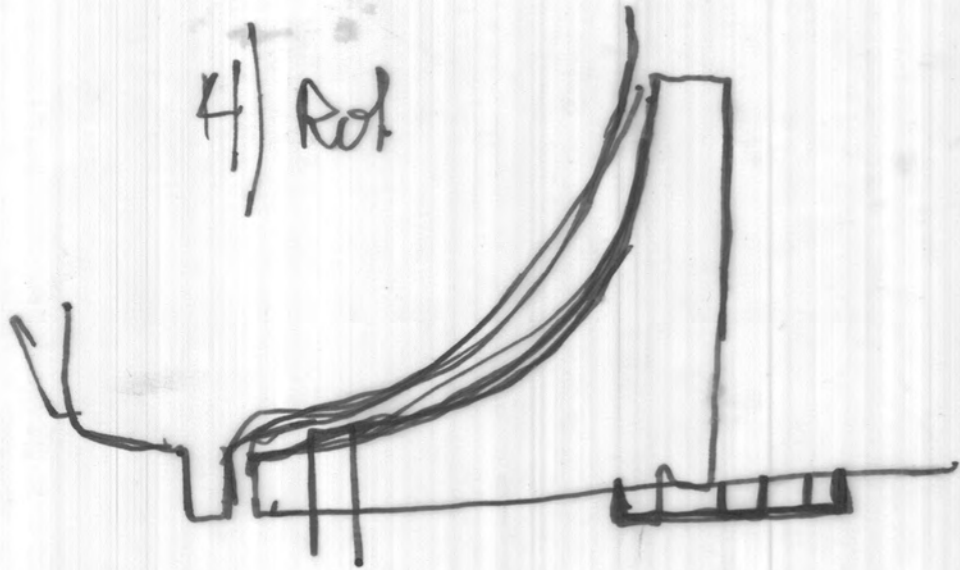
Gå mellom båter



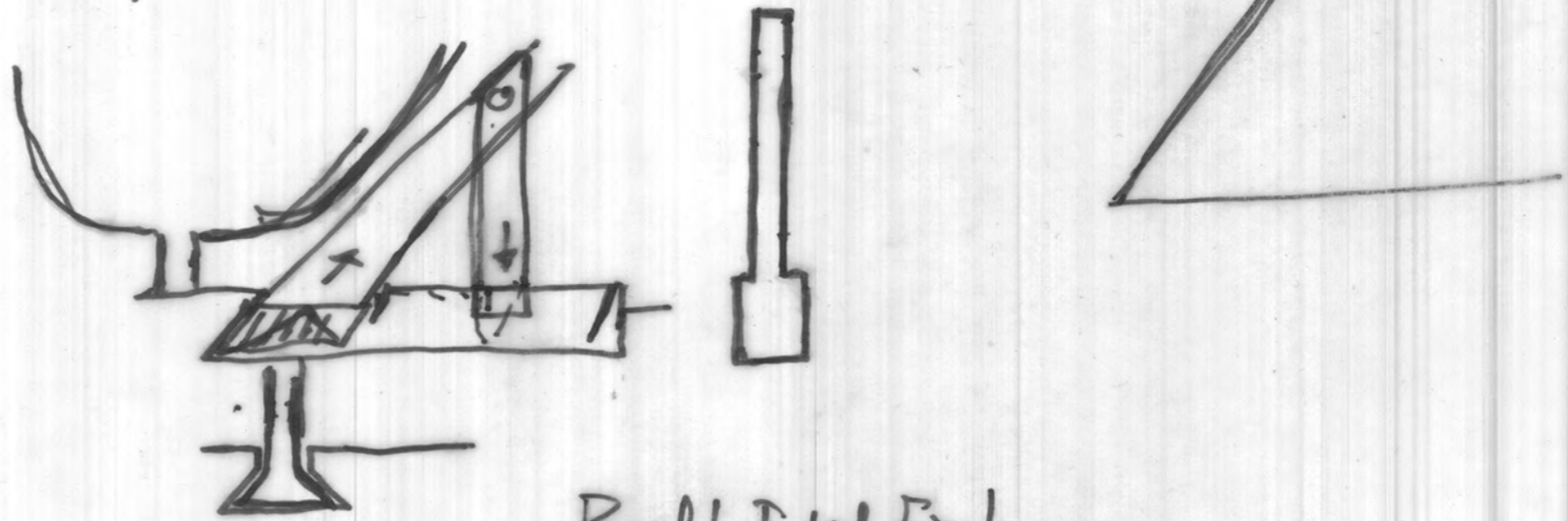
Båtvogger



4) Rot

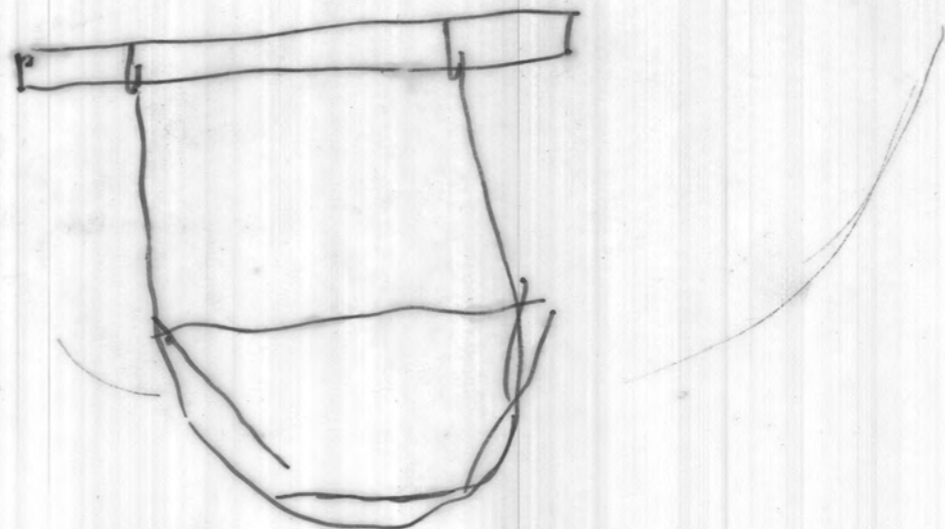


5) Nedfelling Flyttbar



Best! Enkel. Fin!
Flyttbar - Kan tas ut.

6)





Utvelging av stokk med riktig omkrins og lengde



Stokken være mest mulig kvistfri for å lette arbeidet



Med et lite kakk settes stokken fast i enden, ellers kan den bevege seg under saging



Ferdig saga stokker

Saging av materiale til detaljmodell, Budalen

Materialer ble sponset av Allskog





Første stokk rulles på

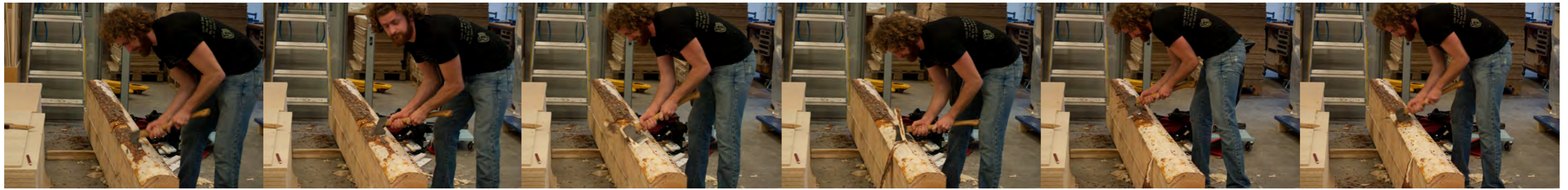


Tre sider er saga

Flere stokker på saga

Kapping i småbiter til modell





Barking

Bygging av 1:1 modeller



Høvling

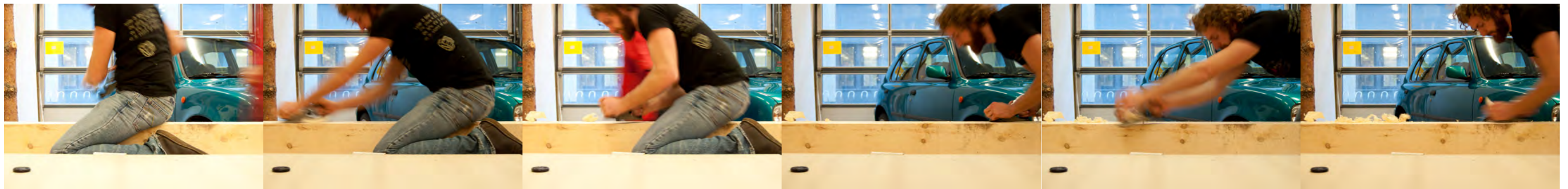
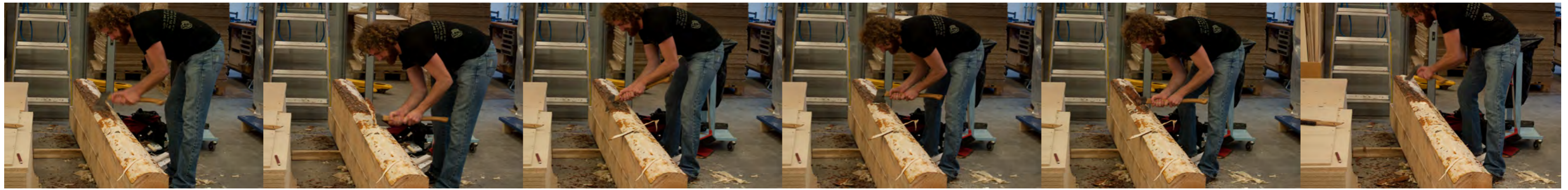
Starter framme...

Fransk lås

oppmerking

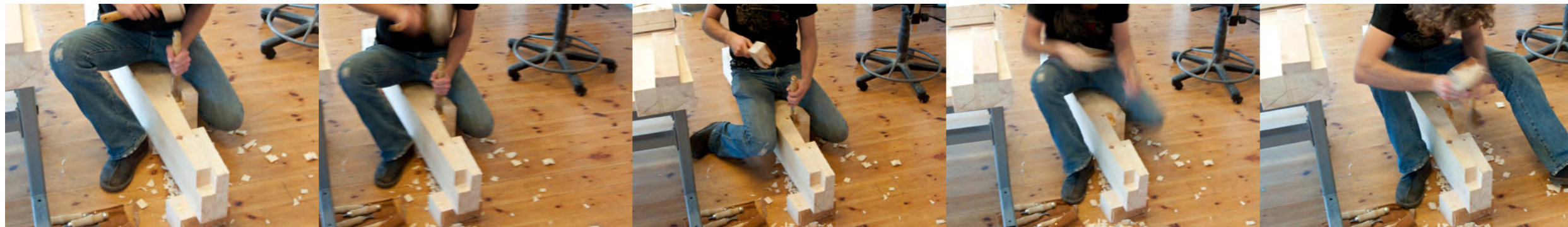
utsaging

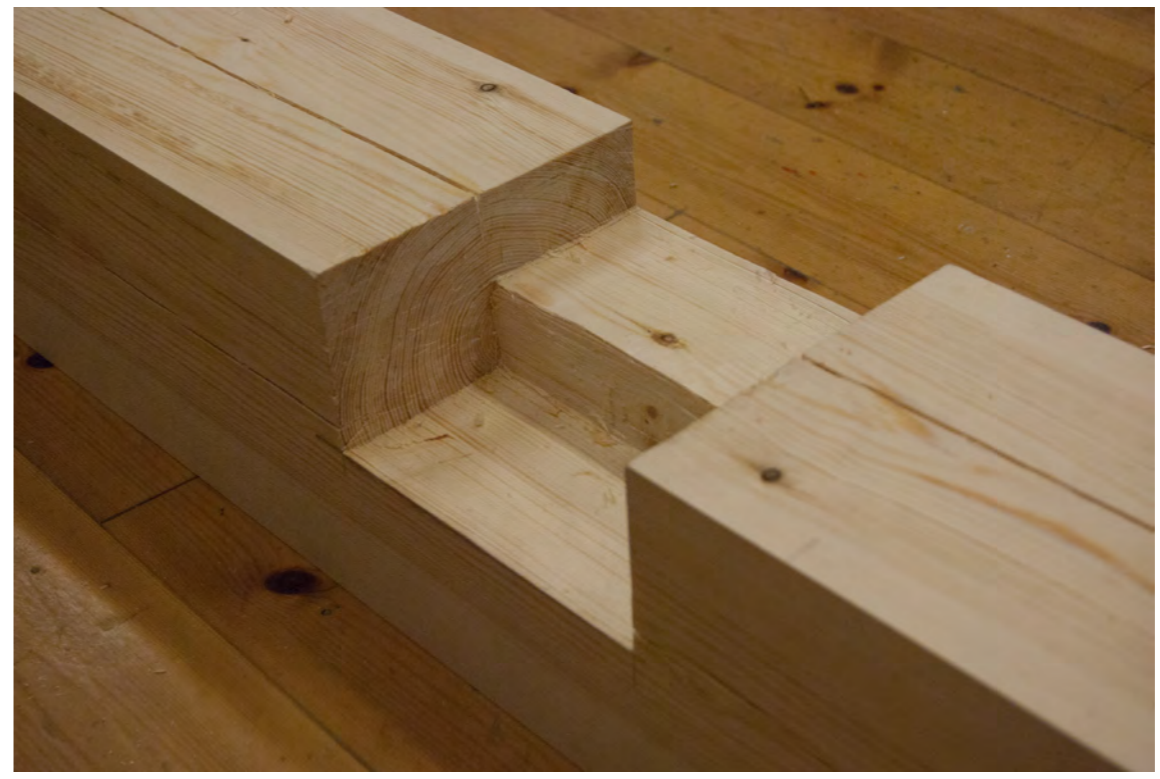
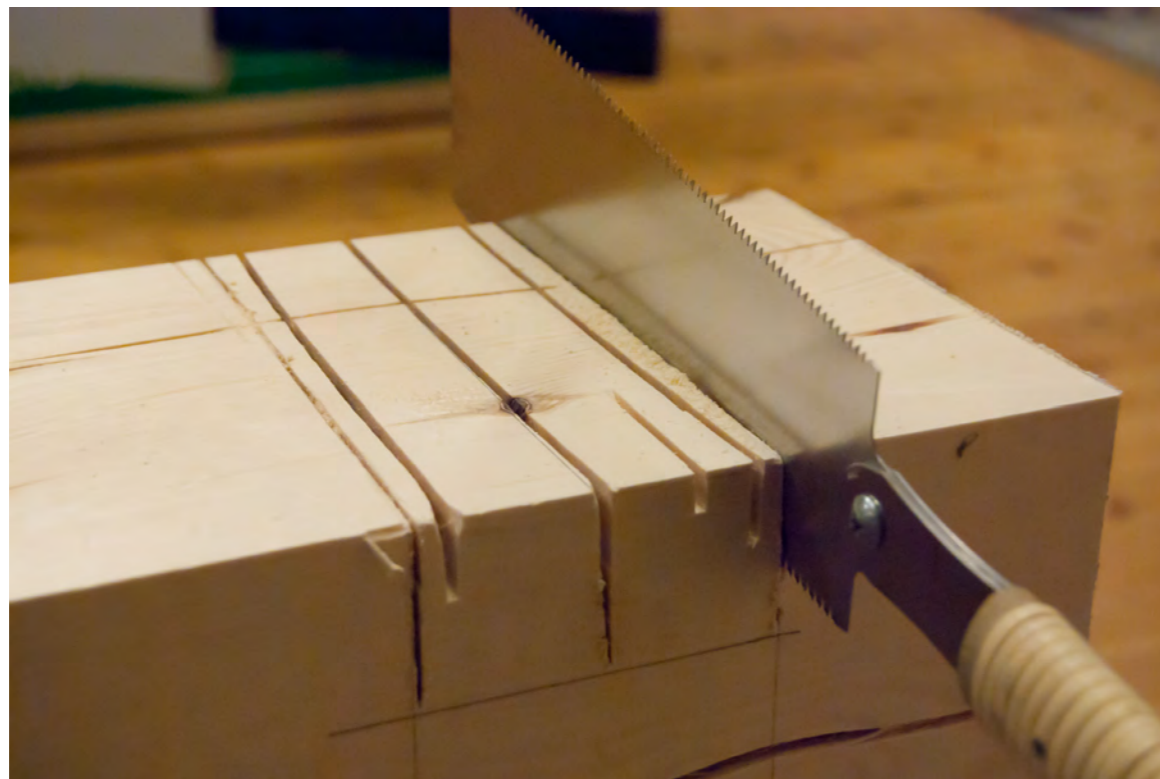




...og høvler meg bakover

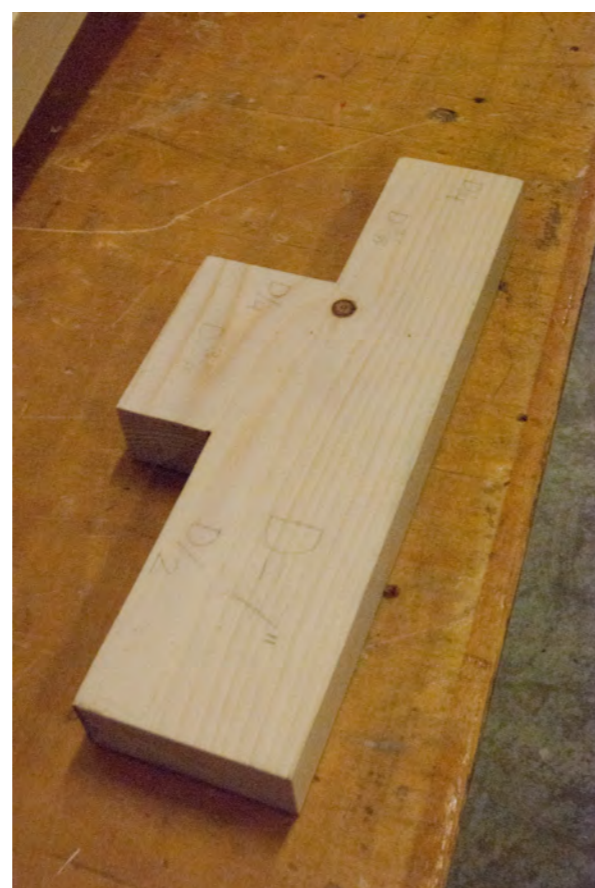
Uttapping





2 deler

Ferdig sperreinnfesting



Ei ku (en oppstrekingsmal)



Spør i stavline for staven, med litt boring går tappinga lettere



Ferdig!

