

/ introduction

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<i>Supervisor</i>	Beate Marie Manthey Holmebakk
<i>Institute</i>	Form, theory and history (FTH)
<i>Title</i>	Arne Nordheim Center
<i>Summary</i>	Spaces for sound – Exploring the relationship between music and architecture.

Project description

As a point of departure, I studied spaces for music with the elements of the musician, the instrument, the sound and the space as framework for the model studies.

These studies led me to an interest in the sound, where ideas about both the physical and emotional aspect of the sound meets built space.

The program chosen for my project is a center for Arne Nordheim, a Norwegian composer who lived and worked in Oslo.

He was interested in the instruments capacity to create different sounds and to explore this in different ways. He was an interdisciplinary composer and highly experimental.

Throughout his career he was occupied with the interest of the sound, and I saw this as an interesting approach to the program of a center.

The project is situated in a green pathway in Oslo that is frequently used by neighbouring residents as well as a transportation route. This was a quality I wanted to keep.

Three buildings that deals with Arne Nordheims musical legacy in different ways.

- The archive is to maintain his work.

- The studio to develop the experimental musical field in which he was a pioneer.

- The concert space to convey his work and other works in the field of experimental music.

The program of a center is challenged by the visitors programs being mostly outside, activating the the pathway as well as keeping it.

The sizes of the buildings are adapting to the one family house structure of the area.

*“Musical composition does not consist merely of writing down notes.
Living a creative life involves expressing the restlessness in one’s soul.
Composing is not only making sound.
It is philosophy, silence, speed, rhythm, everything”*

- Arne Nordheim

Sound is air in motion;
pushed, pulled, beaten, blown, plucked, talked or sung into motion.
Sound is the term to describe what is heard when sound waves pass
through a medium to the ear.

—

Spaces for sound.
Three buildings situated in a green pathway filled with trees.
One building to maintain, one to develop and one to convey.
The project is explored through the experimental work of Arne Nordheim.

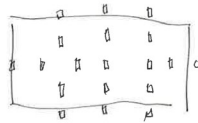
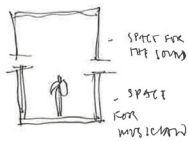
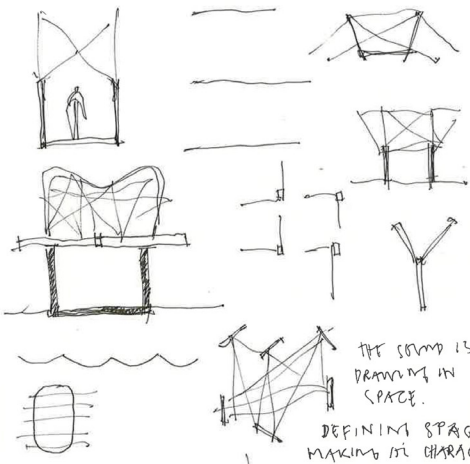
Sketches and models from the first phase

THE SOUNDS SPATIALLY
TO HOLD THE SOUND

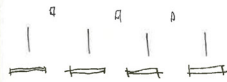
SPACE FOR THE SOUND

- REFLECTED SOUND
- DIRECT SOUND

REFLECTING THE SOUND WITHIN
THE SPACE.



RHYTHM
MOVEMENT
FREEDOM WITHIN
A STRUCTURE,
SYSTEM
↓
NOTATION.



ELEMENTS REPEATED.

THE SPACE

DEFINED FOR THE SOUND
LIMITED FOR THE SOUND

THE SOUND AND THE MUSICIAN
USE THE SPACE DIFFERENTLY.

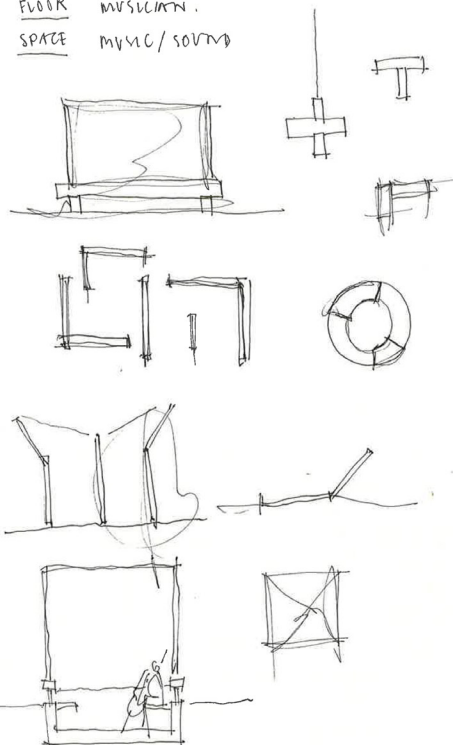
MUSICIAN

LIMITED TO THE FLOOR
HORIZONTAL - FLOOR
BOUNDARIES.

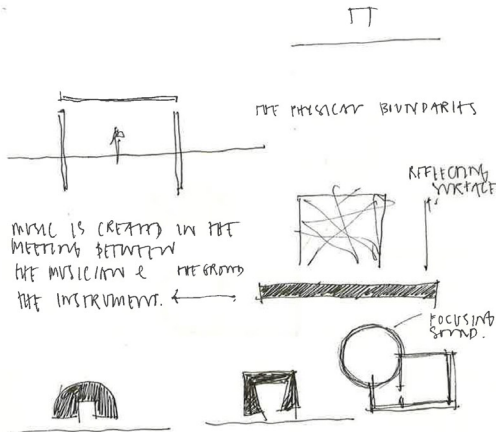
SOUND

UNFOLDS AND USES THE
WHOLE SPACE.
VERTICAL - WALLS & CEILING
REFLECTING.

FLOOR MUSICIAN.
SPACE MUSIC/SOUND

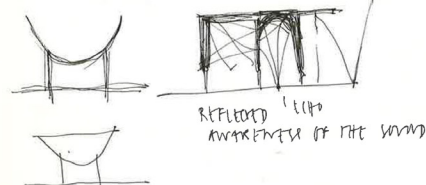


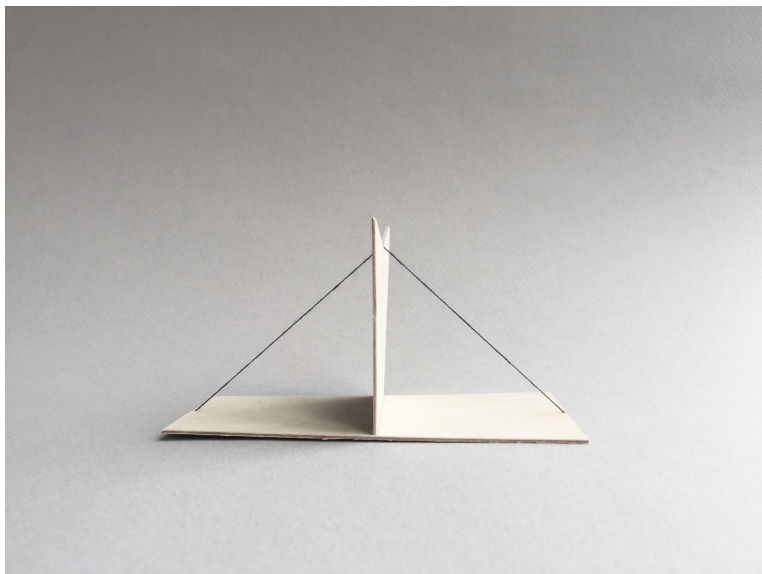
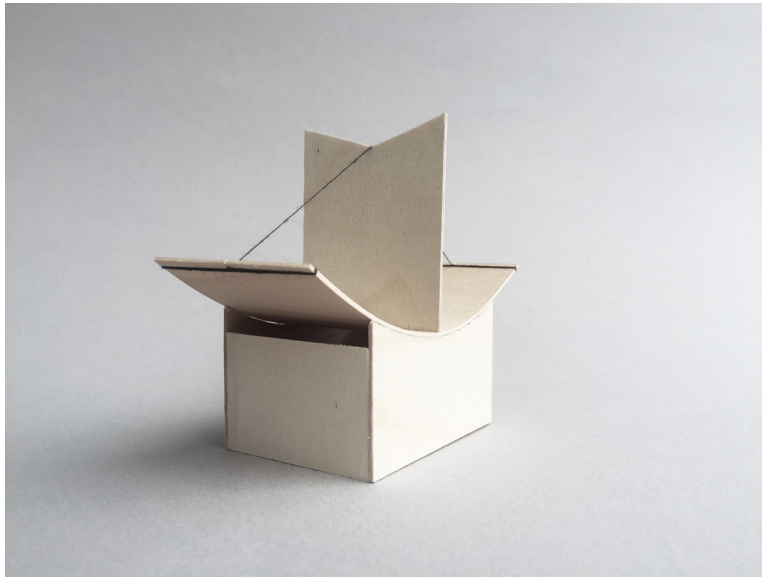
THE MUSICIAN IS COMPLEX
NO MUSICIAN IS THE SAME

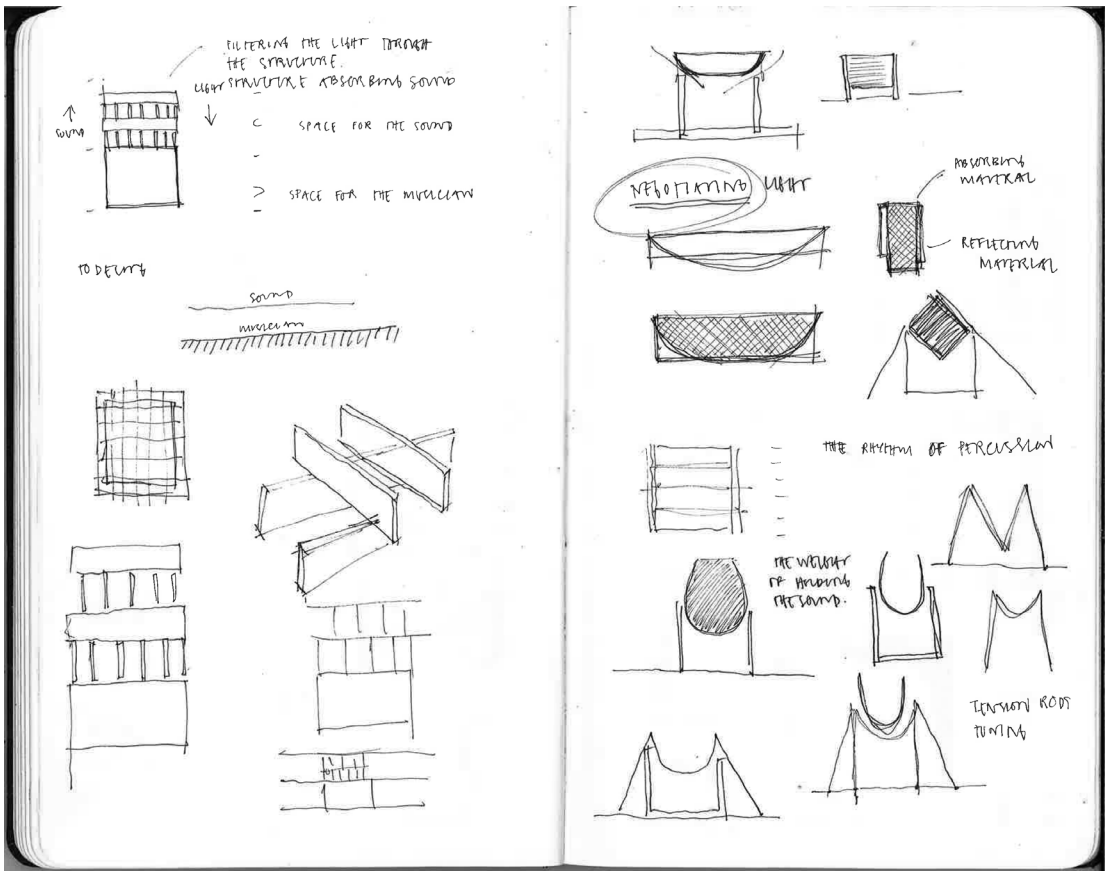
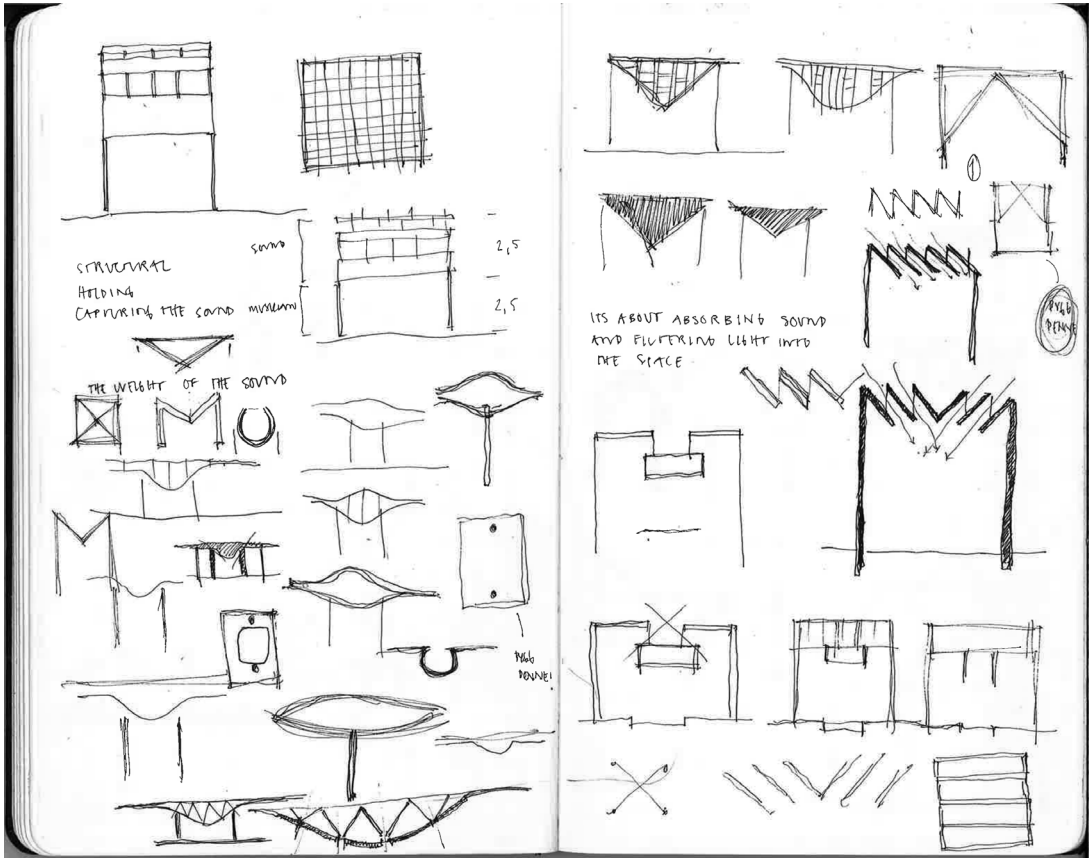


MUSIC IS CREATED IN THE
MEETING BETWEEN
THE MUSICIAN & THE
INSTRUMENT.

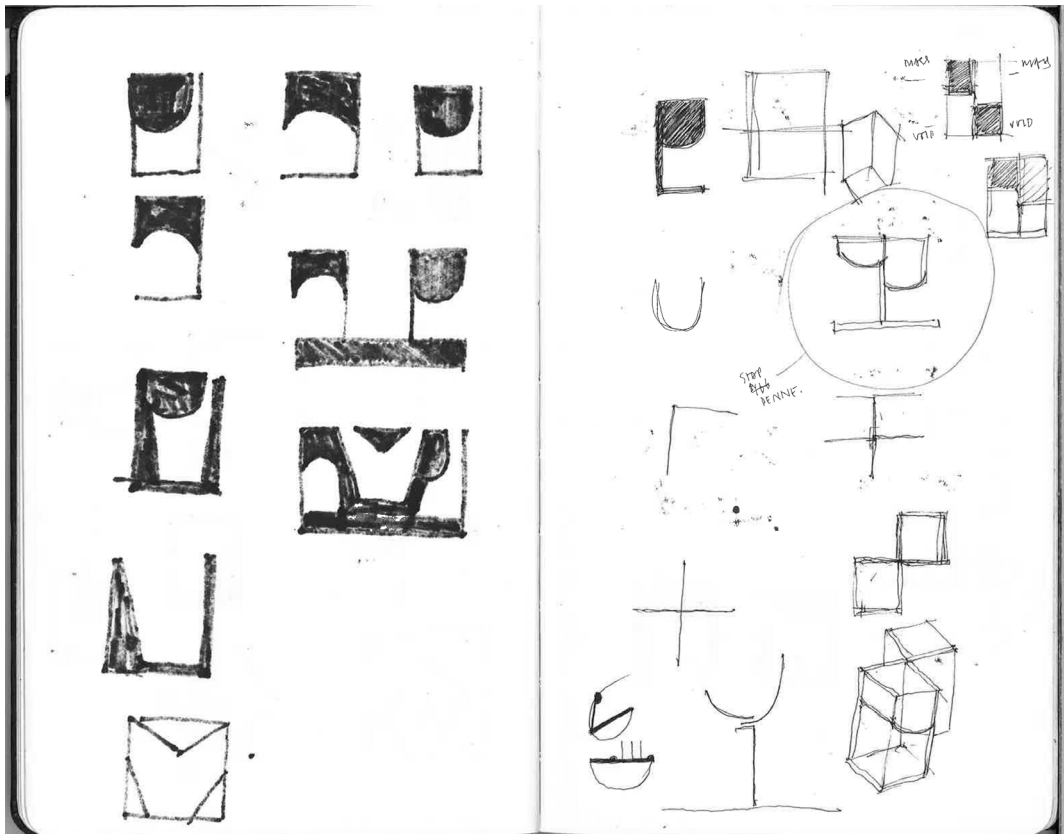
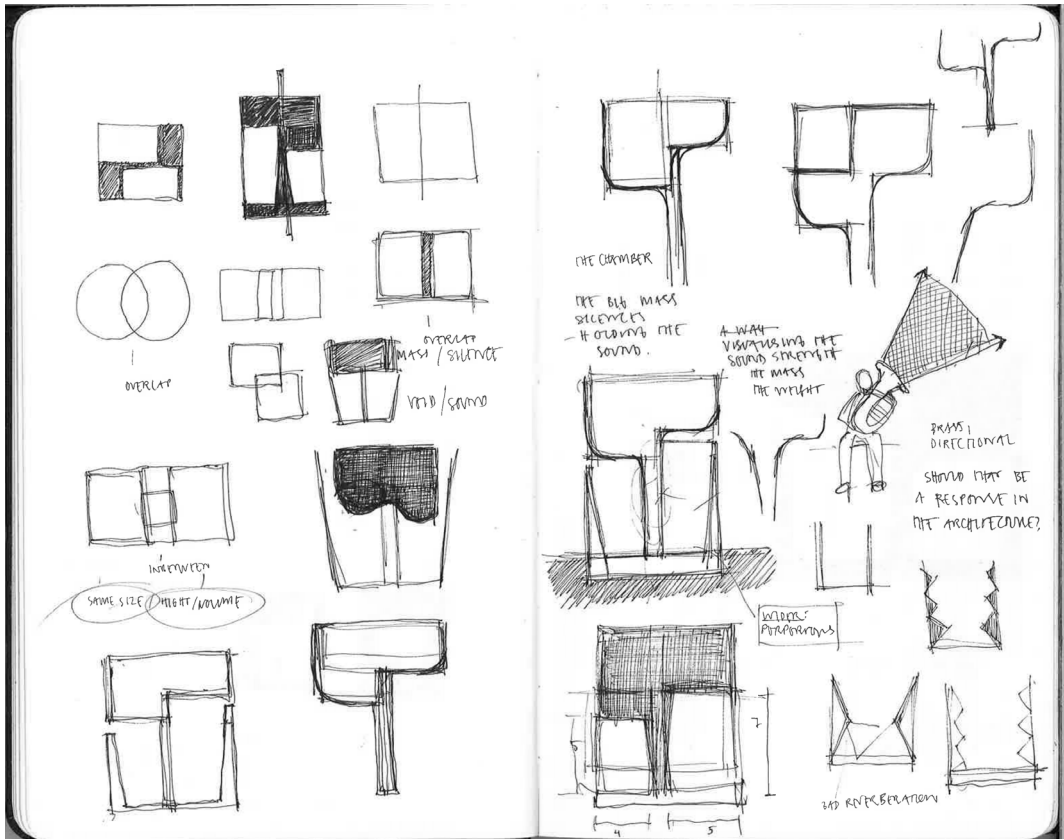
THE SPACE CAN HOLD THE SOUND |
FROM PLANO TO FORTE (!!)

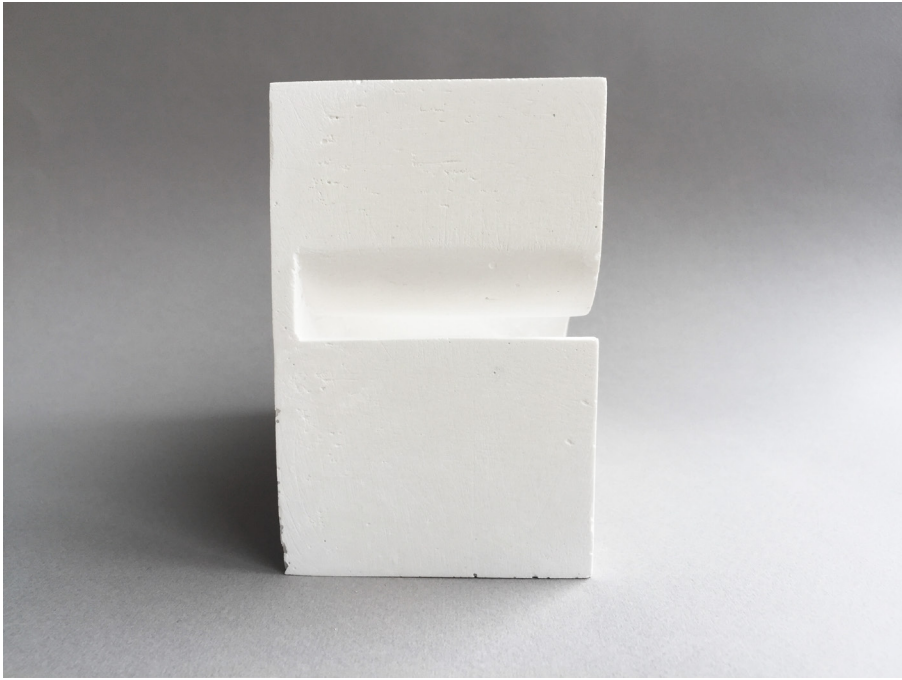












Notational systems;

Oxford dictionary definition

—

A series or system of written symbols used to represent numbers, amounts, or elements in something such as music or mathematics.

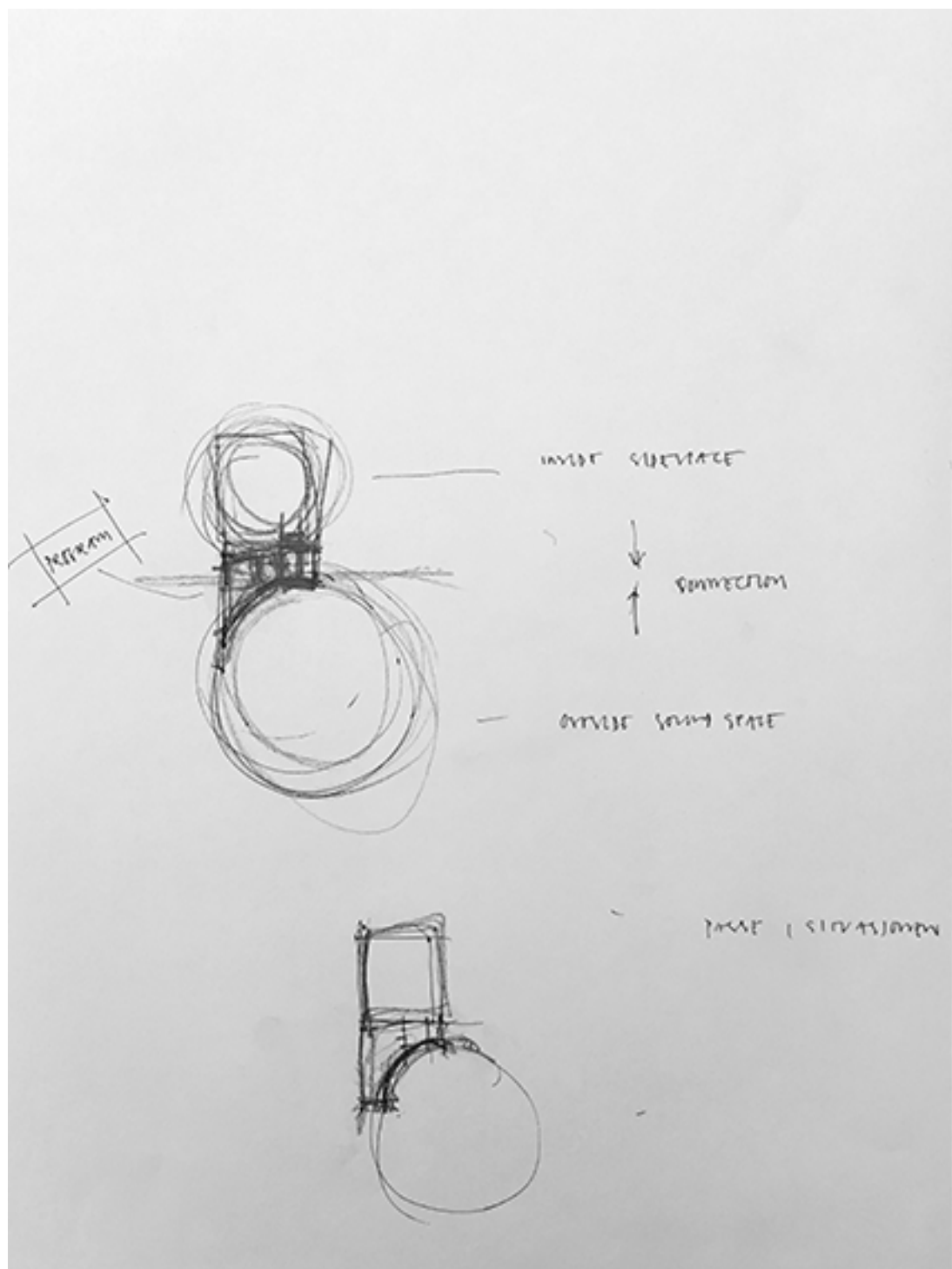
Merriam Webster definition

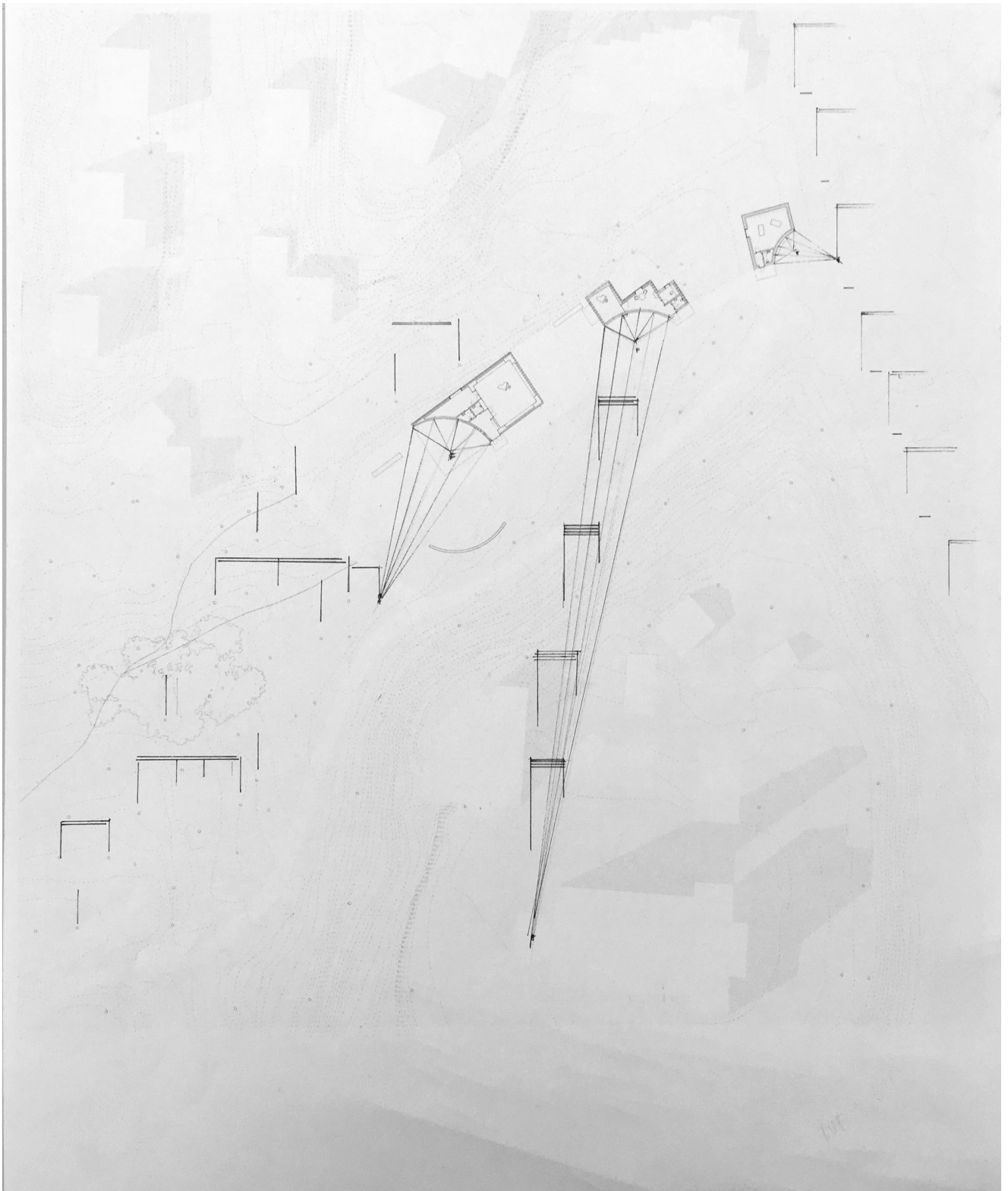
—

a) the act, process, method, or an instance of representing by a system of marks, signs, figures or characters.

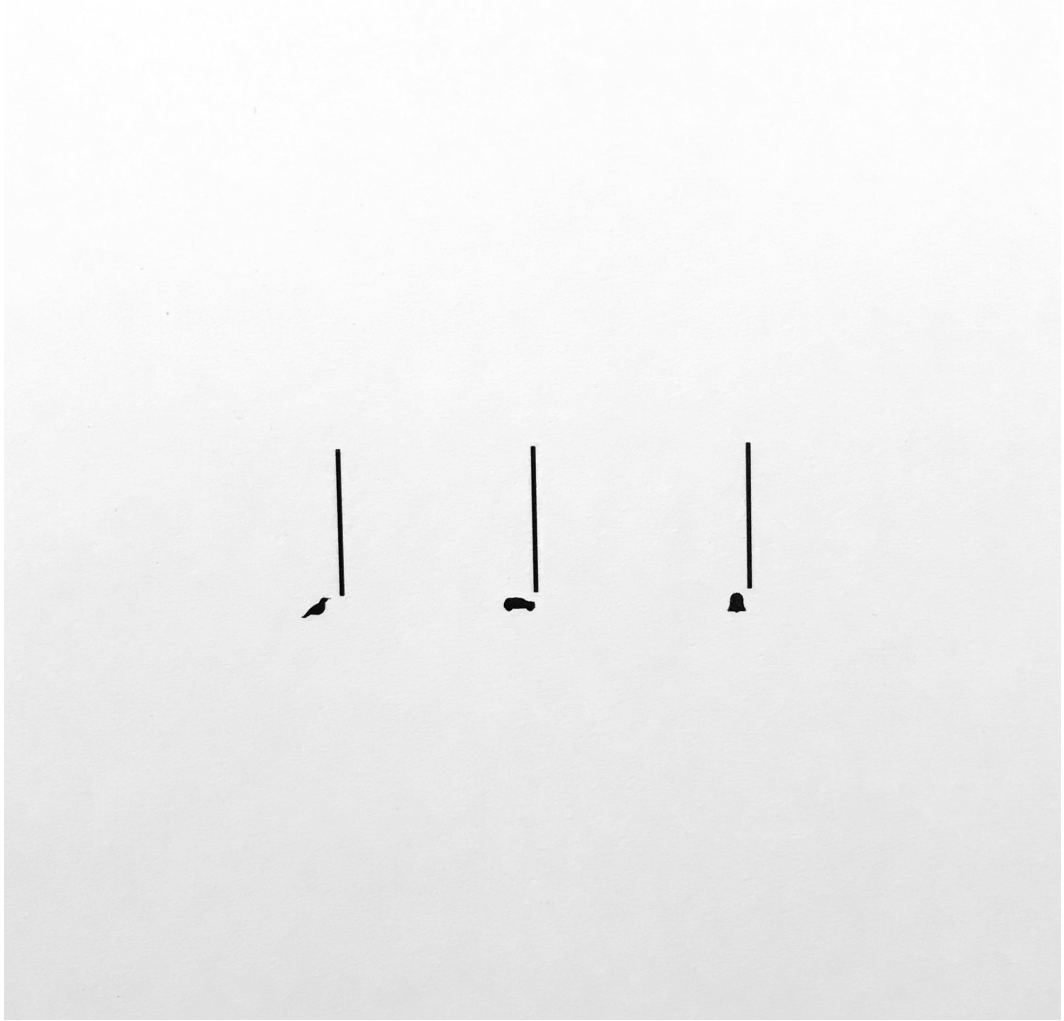
b) a system of characters, symbols, or abbreviated expressions used in art or science to express technical facts, quantities, or other data.

Sketches

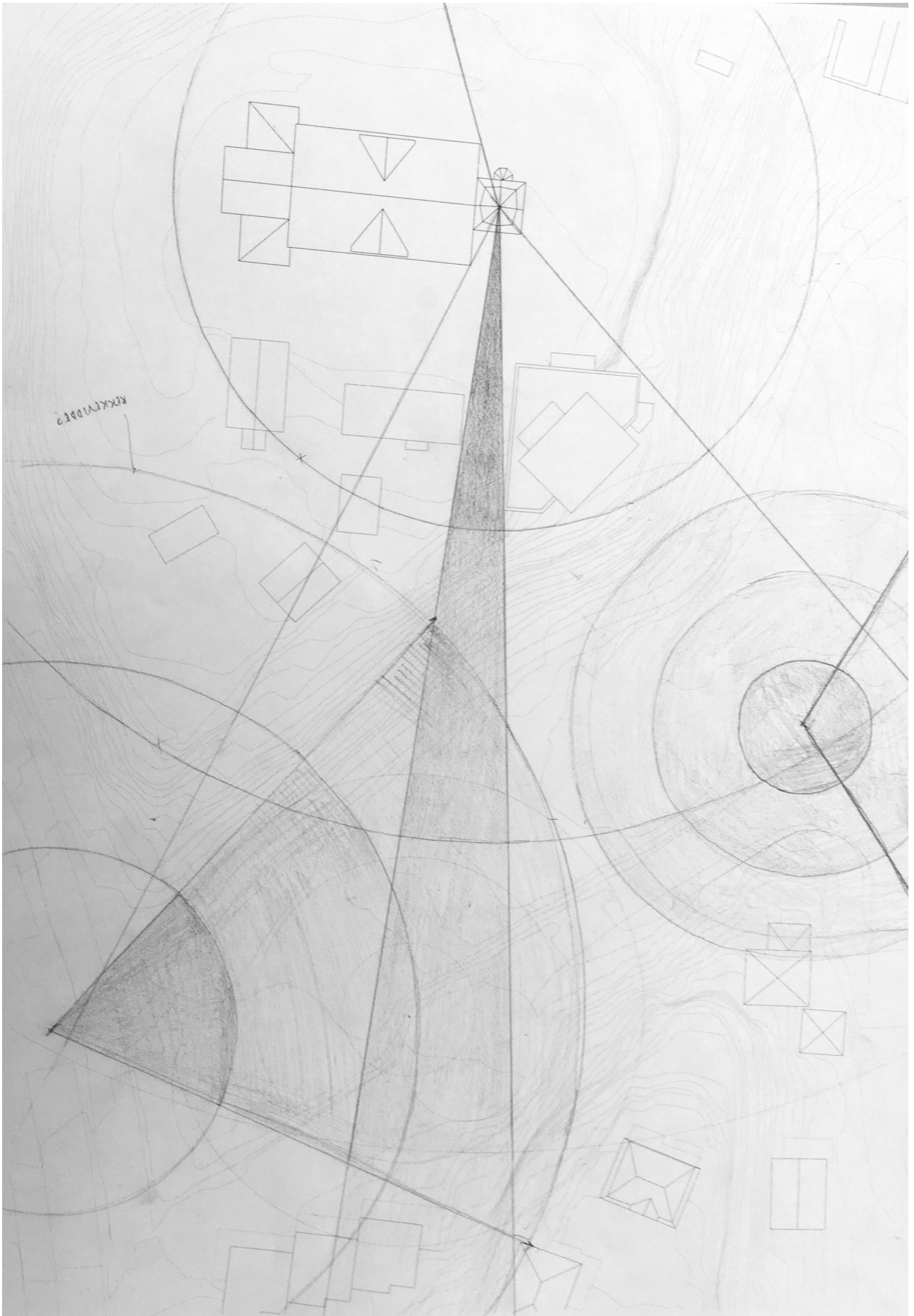








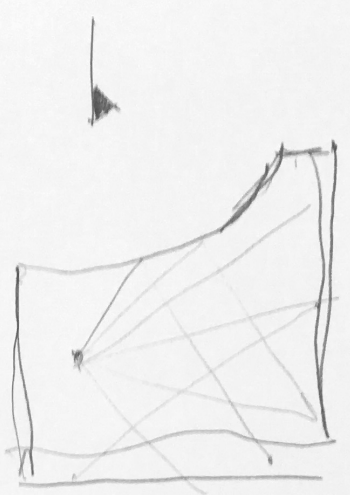
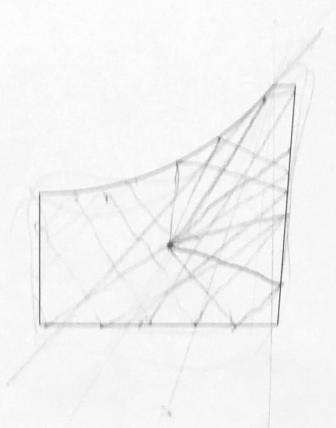




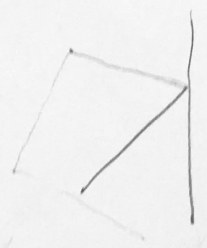
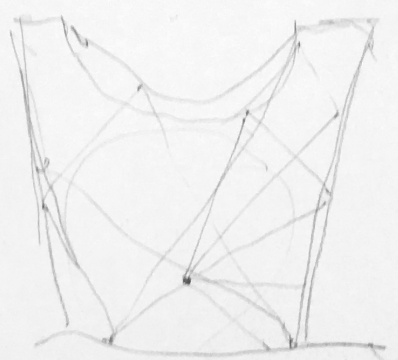




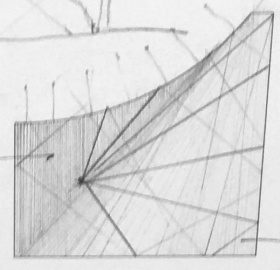
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SOUND SPACE



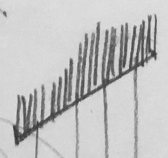
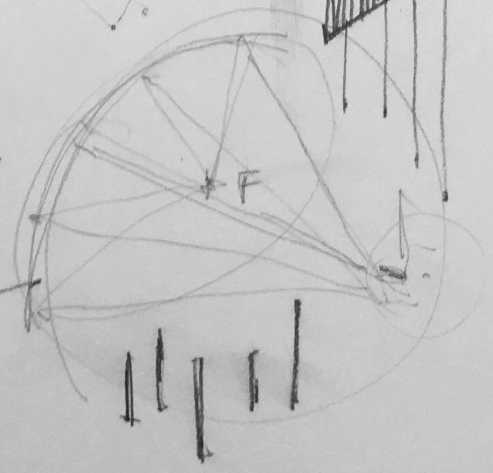
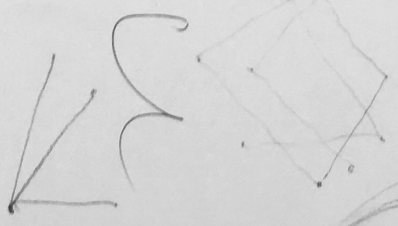
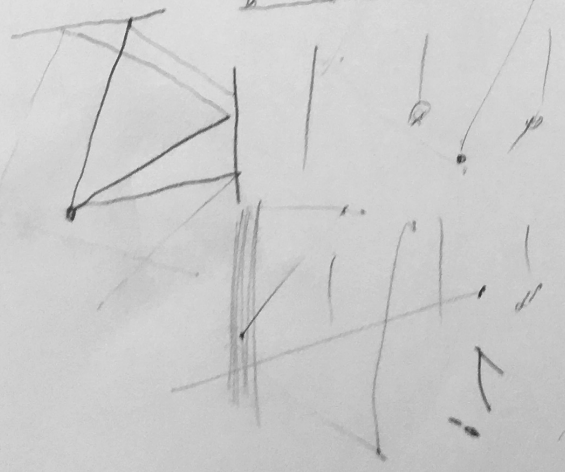
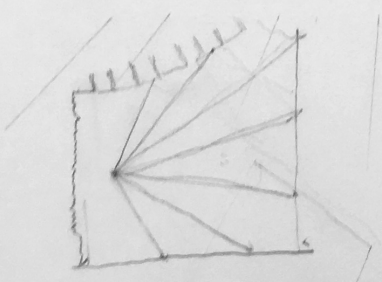
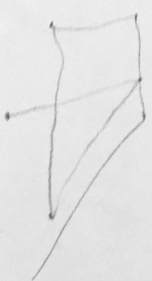
LIGHT
SOUND

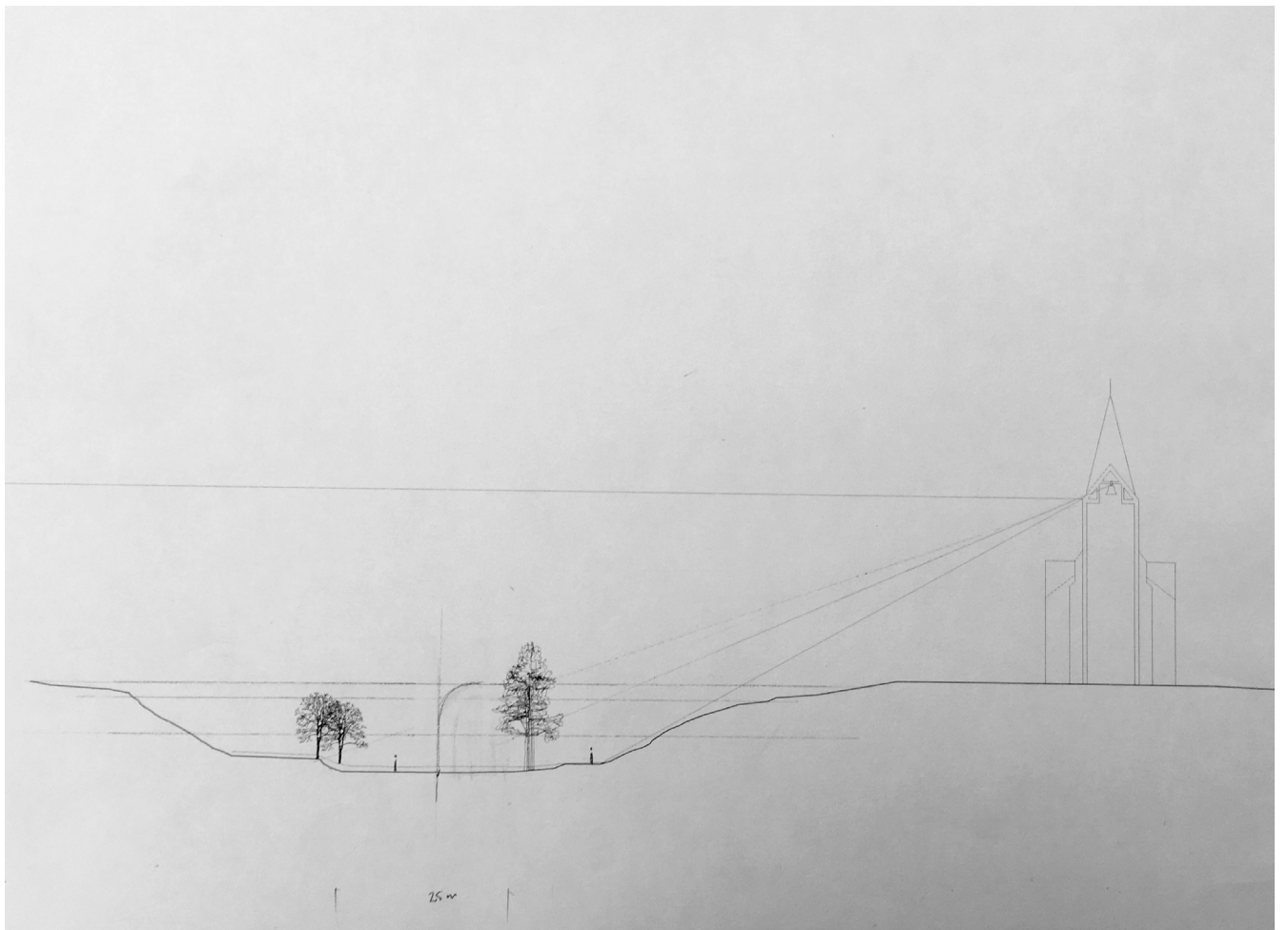


shape

REFLECTING
DIFFUSING
ABSORBING
SHAPE
SURFACE

CEILING
PERFORATION



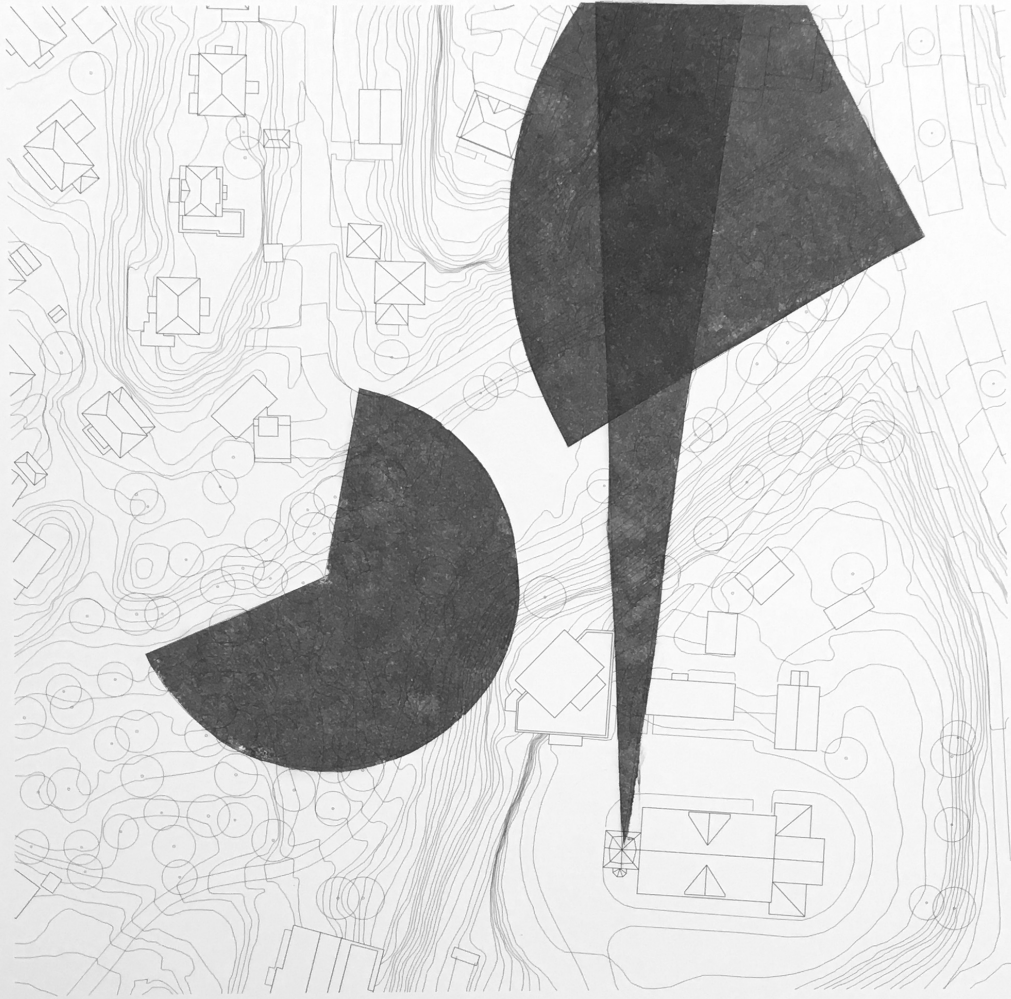


Project

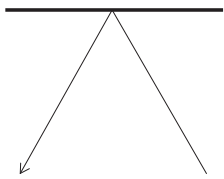


1 : 5000 / Majorstuen, Oslo

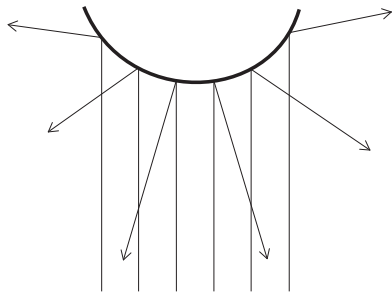
1. Arne Nordheim Center
2. Norwegian Public Broadcasting Company (NRK)
3. The Norwegian Academy of Music (NMH)



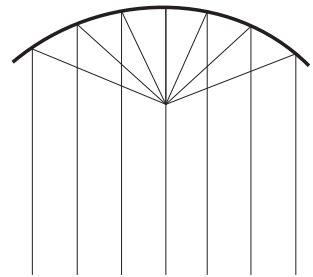
- ! Church bells
- Bird song
- ◼ Traffic sound



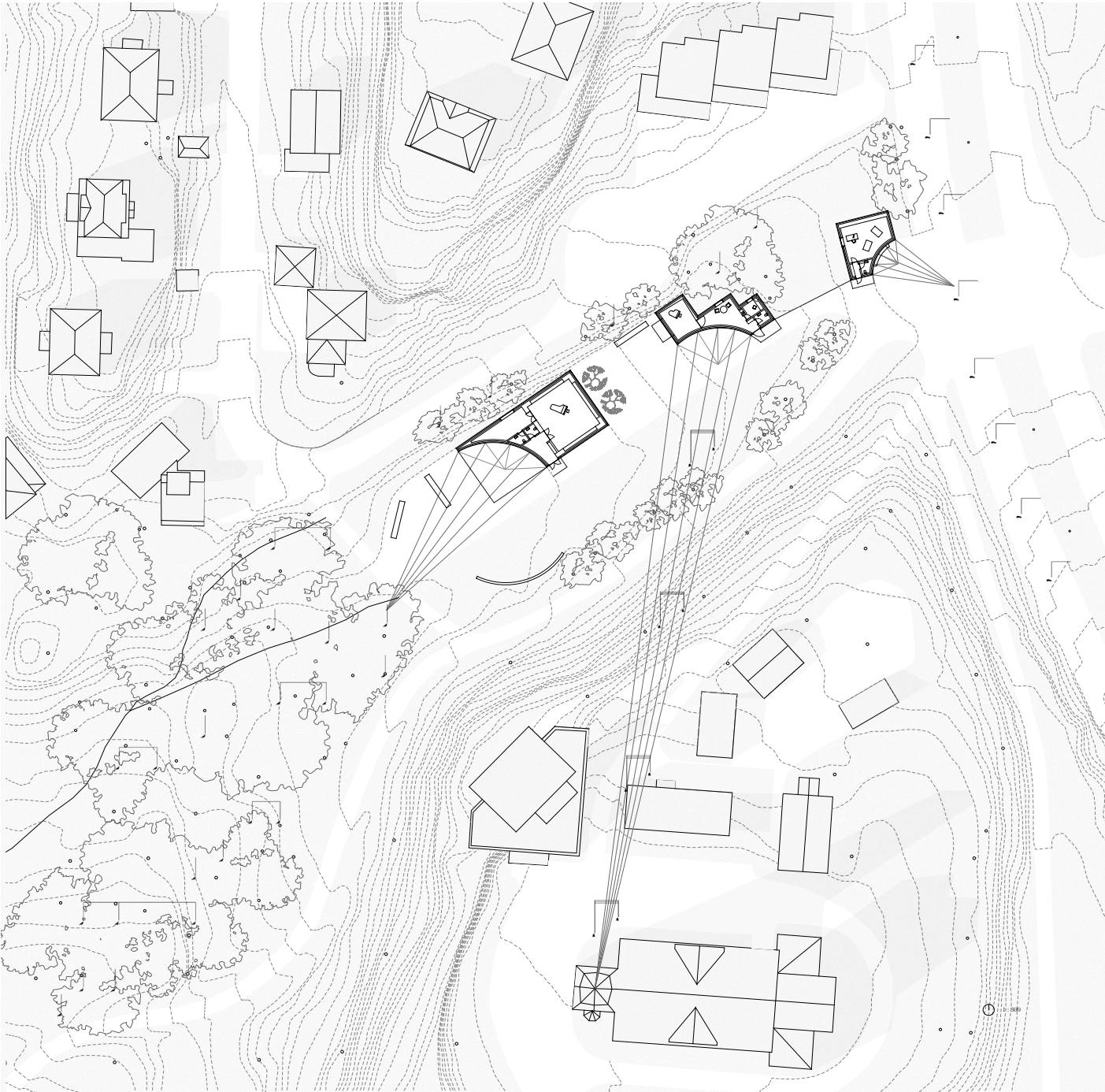
sound reflecting on a flat surface
same angle



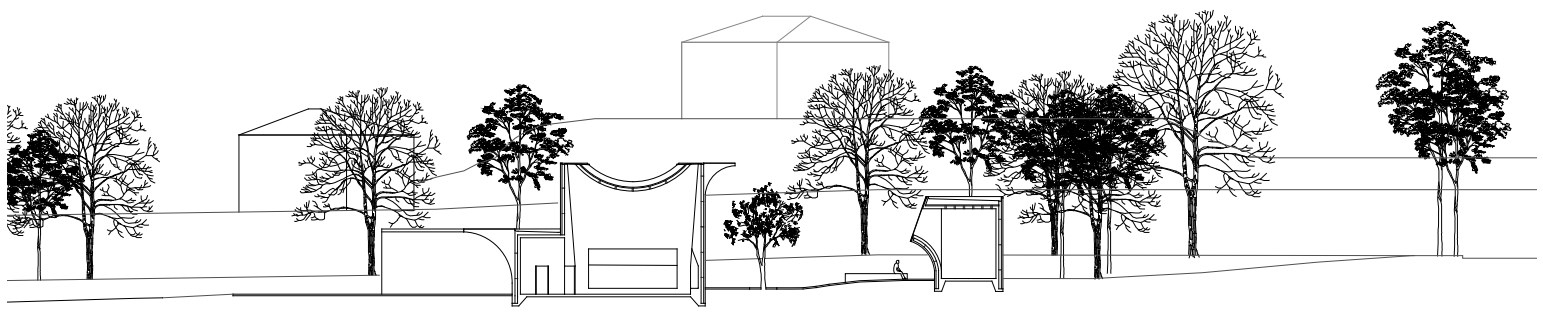
sound reflecting on a convex surface
sound spreading

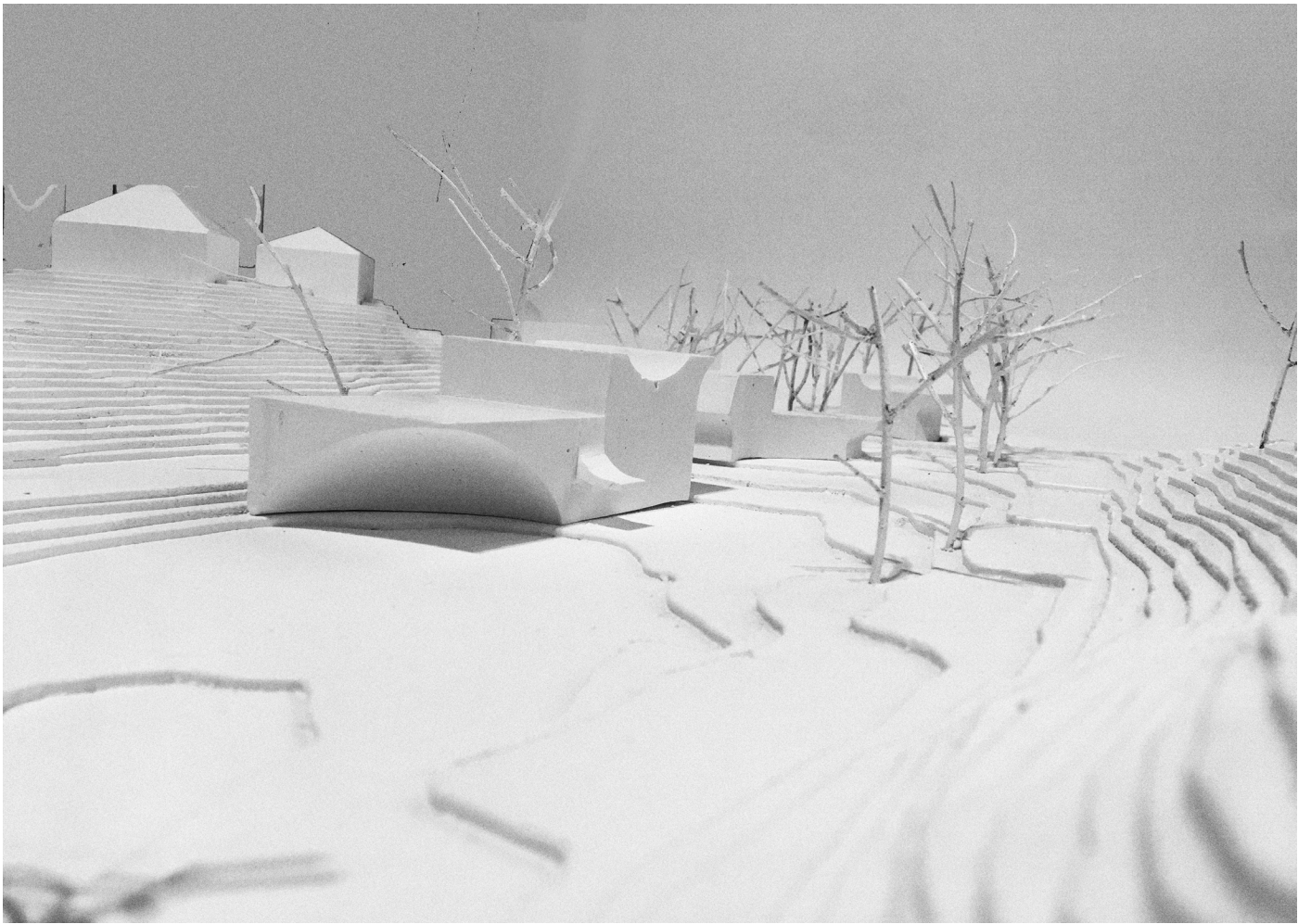


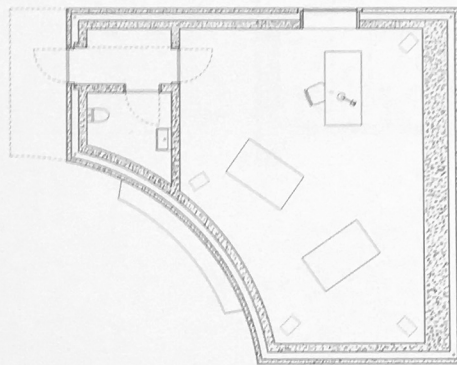
sound reflecting on a concave surface
sound focusing

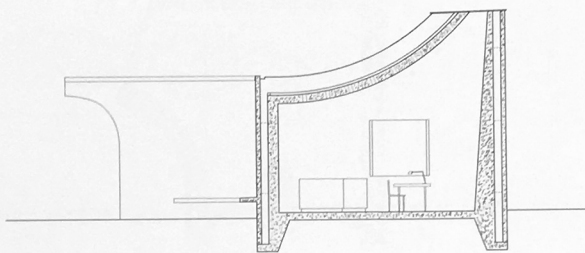




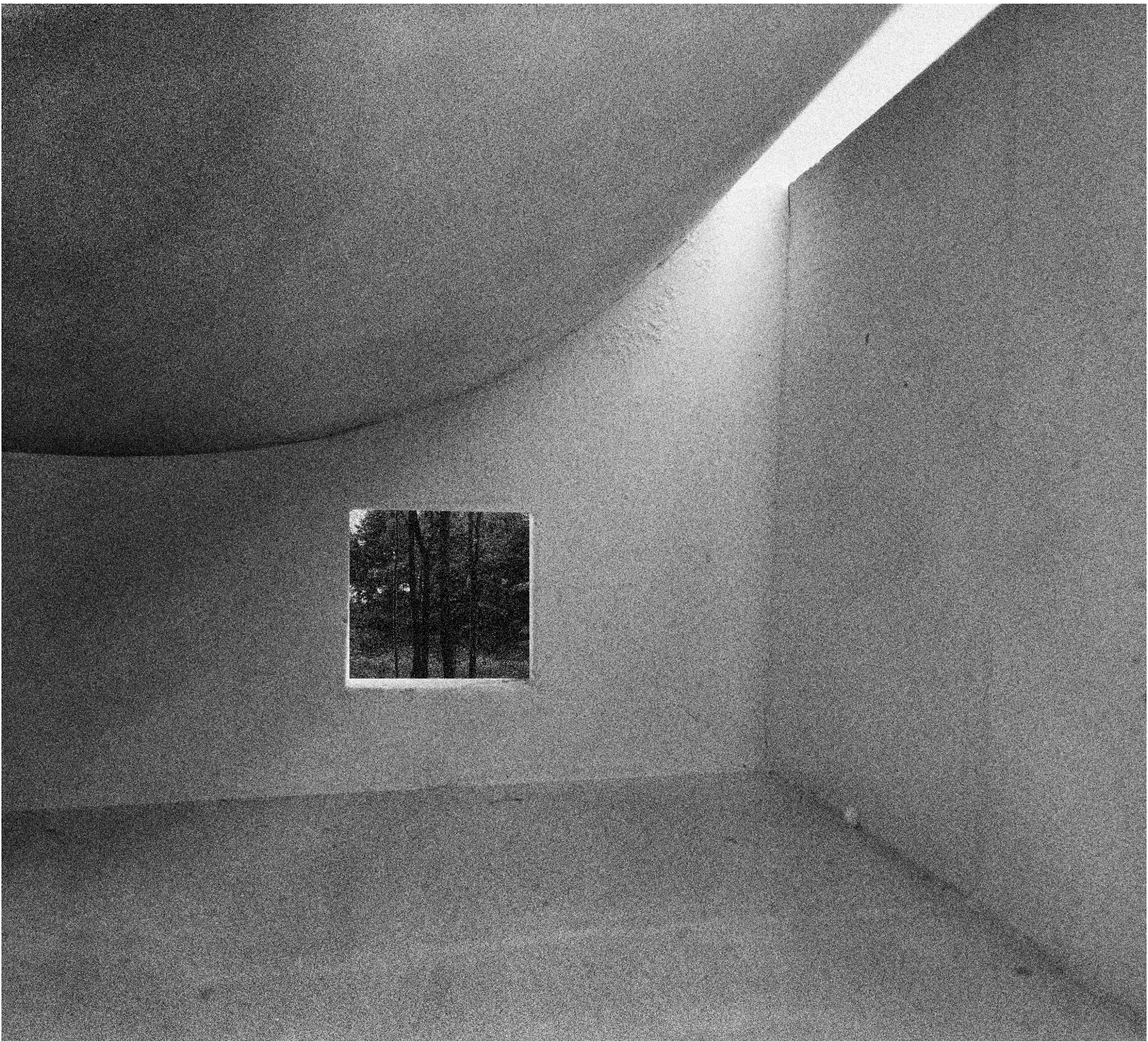


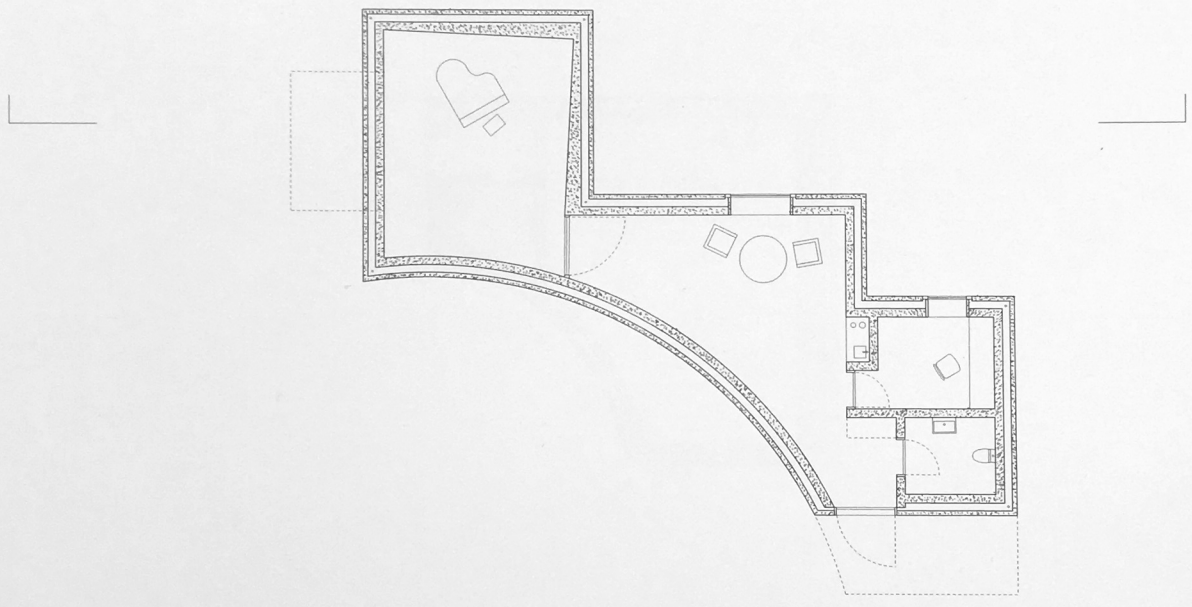


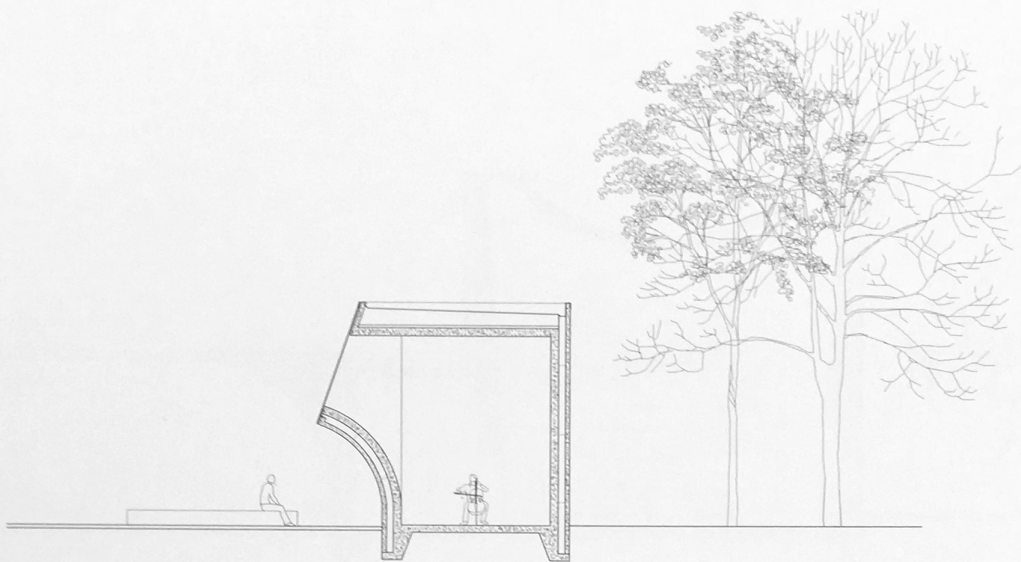




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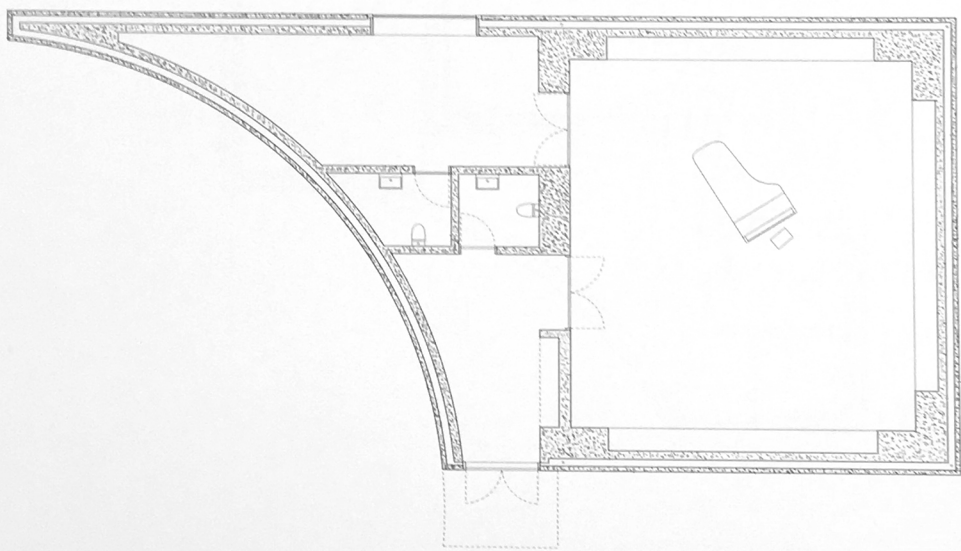


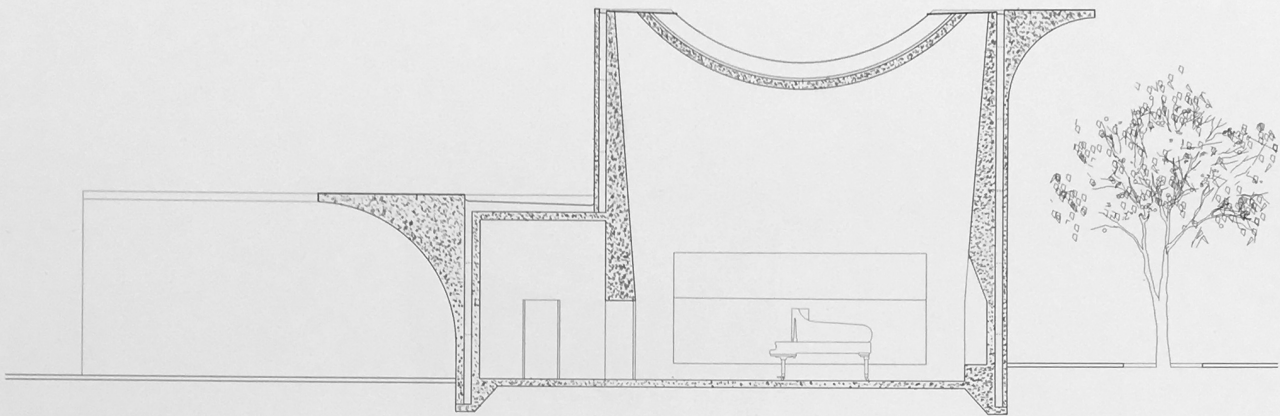




1:100







1 : 100

