

# Transporting Eating Architecture Lavash • Լաւաջ

Rhode Island School of Design M. Arch Degree Project Margaret Kiladjian '18

#### **Transporting Eating Architecture**

A thesis presented in partial fulfillment of the requirements for the degree Master of Architecture in the Department of Architecture of the Rhode Island School of Design, Providence, Rhode Island.

By Margaret Kiladjian '18

Approved by Master's Examination Committee:

Amy Catania Kulper, Head, Department of Architecture | Primary Advisor

Aaron Forrest, Assistant Professor, Department of Architecture | Secondary Thesis Advisor

Hansy Better Barraza, Professor, Department of Architecture | Thesis Coordinator

## Many Thanks to:

My advisors:

Amy Catania Kulper and Aaron Forrest

My instructors and mentors:

Chris Bardt, Hansy Better Barraza, Carl Lostritto, Peter Tagiuri,

Emanuel Admassu, Laura Briggs, Elizabeth Dean Hermann,

James Barnes, Brett Schneider, Ijlal Muzaffar, Jonathan Knowles,

Jonathan Scelsa, Erik Nelson, Jeffrey Geisinger, Marie Law Adams.

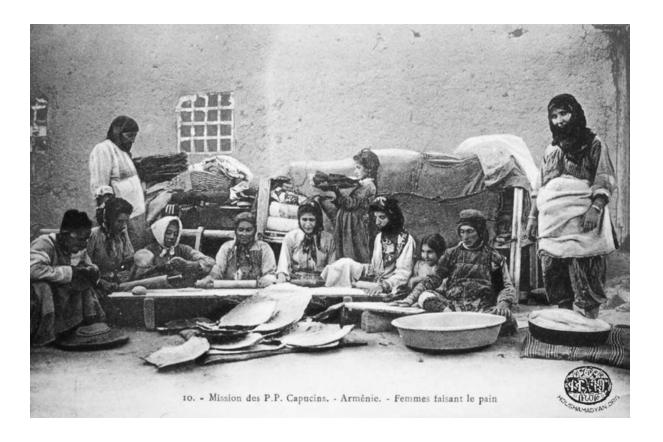
And all instructors whom I might have failed including in this attempt

Professor Christina Maranci, Tufts University

Ani Babaian, NAASR and Jim Williams, Seven Stars Bakery

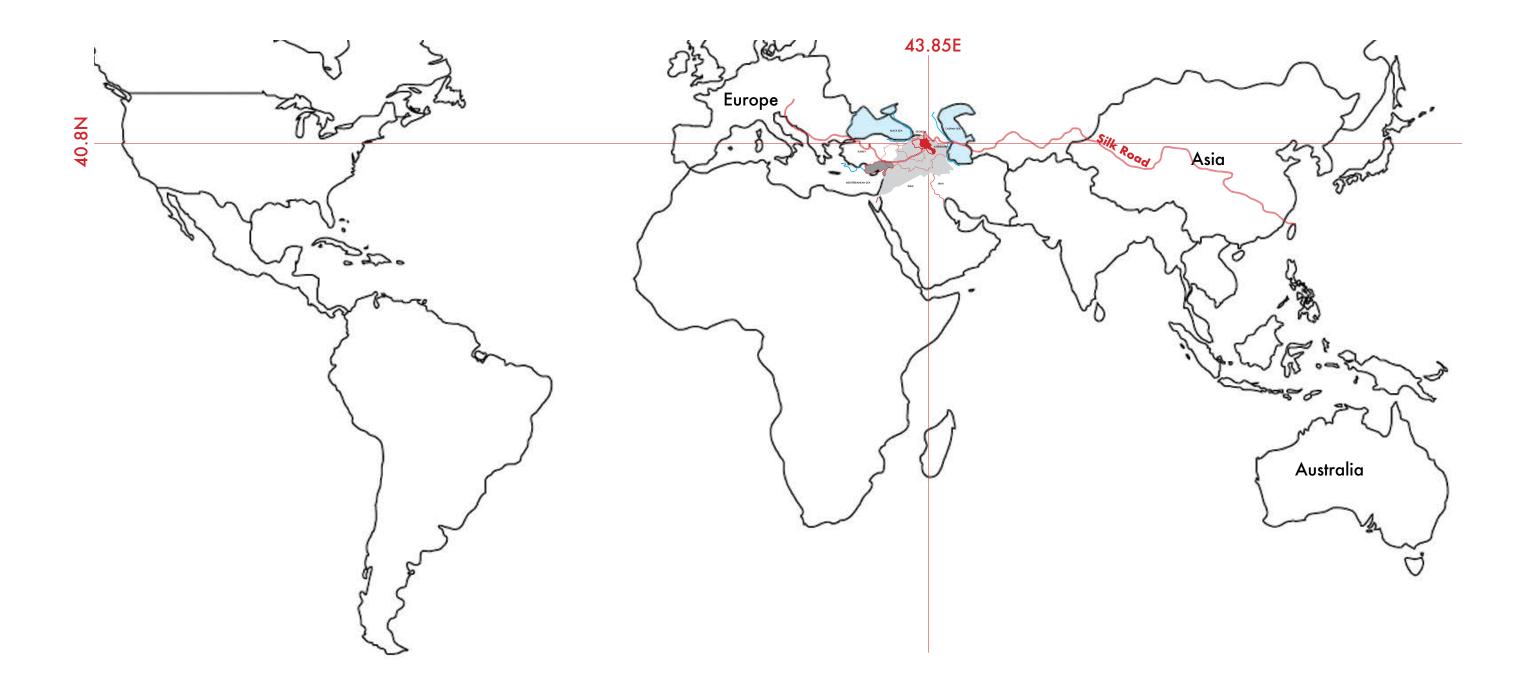
My family and friends

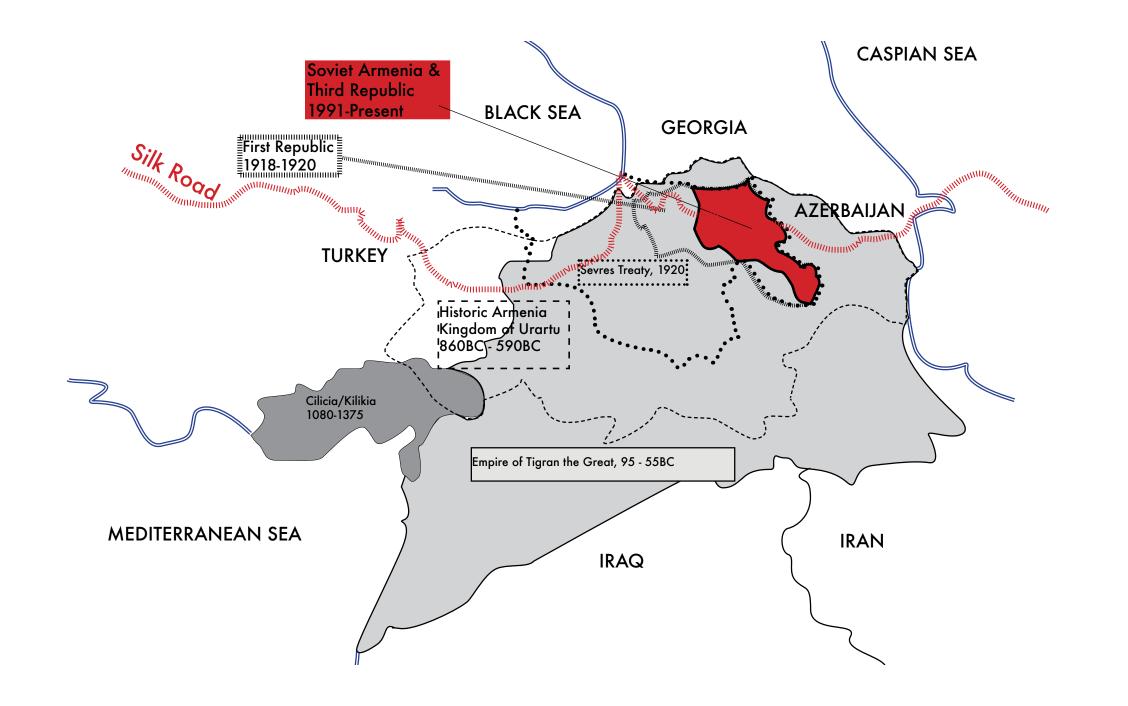
My late father



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#### **Thesis Statement**

How could I transport a taste of the Armenian culture through a practice of everyday life?

Centuries ago, village women performed the baking of Lavash bread in a hearth.

This rather theatrical act, bland and part of the "musts" of the everyday Armenian life became a bearer of my identity, history and culture and now a UNESCO World Cultural Heritage.

The process is a ritual ceremony that involves a group of women each with their own task; from preparing the dough using ttkhmor (fermented remnant of the previous batch) to shaping, rolling, stretching and baking it in a clay hearth (Tonir) built in the ground.

Specific tools are used for the baking of this flatbread such as hey filled pillow, hooked rod, okhlaoo (wooden rolling dowel) and salt stored in a clay cellar.

What aspects of this culinary art evokes the Armenian culture? Would it be sufficient to use the exact recipe, tools and method to transport this cultural heritage? What kind of architecture can act as a catalyst in the transport of a practice?









UNESCO describes Lavash as the following:
Lavash is a traditional thin bread that forms an integral
part of Armenian cuisine. Its preparation is typically
undertaken by a small group of women, and requires
great effort, coordination, experience and special skills.

A simple dough made of wheat flour and water is kneaded and formed into balls, which are then rolled into thin layers and stretched over a special oval cushion that is then slapped against the wall of a traditional conical clay oven. After thirty seconds to a minute, the baked bread is pulled from the oven wall.

Lavash is commonly served rolled around local cheeses, greens or meats, and can be preserved for up to six months. It plays a ritual role in weddings, where it is placed on the shoulders of newlyweds to bring fertility and prosperity. The group work in baking lavash strengthens family, community and social ties.

Young girls usually act as aides in the process, gradually becoming more involved as they gain experience. Men are also involved through the practices of making cushions and building ovens, and pass on their skills to students and apprentices as a necessary step in preserving the vitality and viability of lavash making.

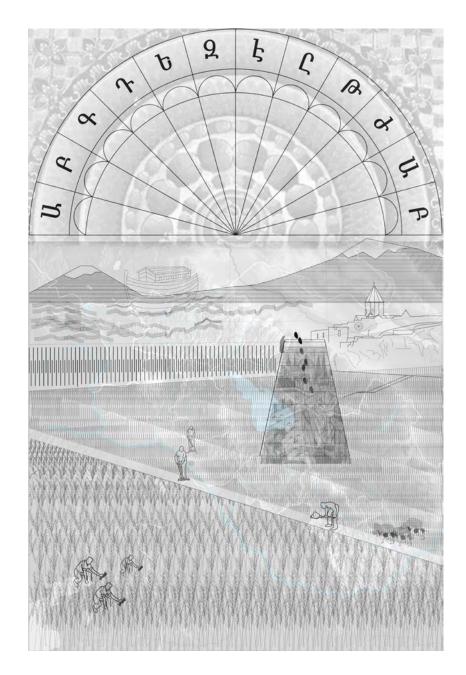


Fig 1 A drawing/collage depicting the way I see the practice traditionally through a legend

#### **Abstract**

For my thesis, I worked on transporting, or perhaps translating, the lavash practice.

An Armenian flatbread cooked in a tonir • Թոնիր. A hearth symbolizing the sun in the ground. My disciplinary positioning is one of conservation and preservation.

I looked at the practice of Lavash at three horizontal levels: The land, the refectory and the table. Each of these levels informed me on where and how I would be transporting the practice. The village women, when making lavash, were living next to the field where the wheat is grown and harvested. They were using stone mills, which allowed the grain to be grind at a low temperature. This guaranteed freshness and preserved the grains' all nutrients.

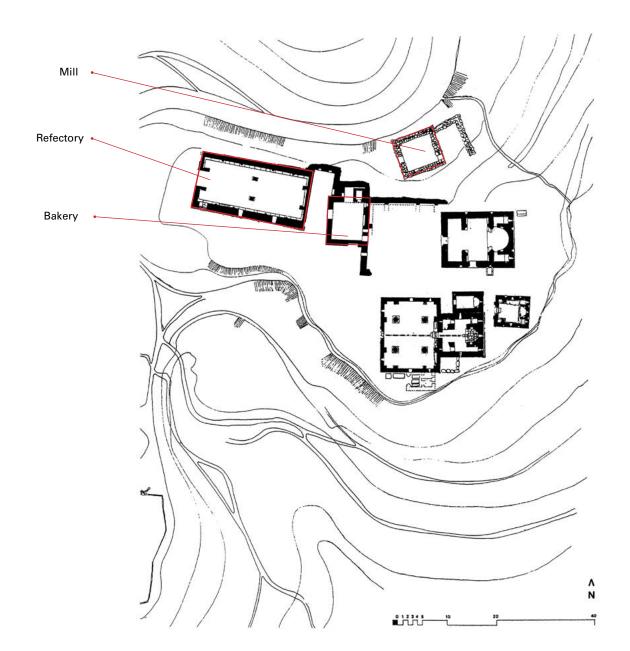
I also looked at the Haghartsin monastery in the Tavush region of Armenia because it had a refectory next to a bakery and a big stone mill. Again, the bread was consumed in proximity to where the grain was harvested, milled and the dough was baked.

These analysis lead me to choose a site that would allow me to plant and harvest the wheat. A site that would include big stone mill(s) and a place/silos where grain could be stored. My proposal's objective mainly allows people to observe and understand the practice, to participate in the making and consuming of Lavash. Ultimately it would be a site for human interaction and gathering through a practice.

I analyzed the practice in a diptych way between Armenian sites where Lavash was practiced. Specifically in the villages and at the Haghartsin monastery and the site where the practice will be transported to: Dry Dock #4 in Boston. Here the practice and the evidence of human activity would generate the space. It is liberated from a particular form. I referenced to De Certeau in his book *The practice of everyday life* when he talks about tactics vs. strategy. So, instead of having (a priori) a set of rules to operate on, the tactic gives the agility to operate anywhere. This would allow the practice to behave differently in Boston vs. in Providence or on a boat for example. Similarly for Tschumi the practice becomes an event or an activity which operates independently from its form. The specificity of the situation is what constitutes the space.

In my view, the practice would be central to the diasporic preservation and conservation and this could be the architecturalization of a practice.

Fig 2 Haghartsin monastry 10-13th Century, near Dilijan, Tavush, Armenia



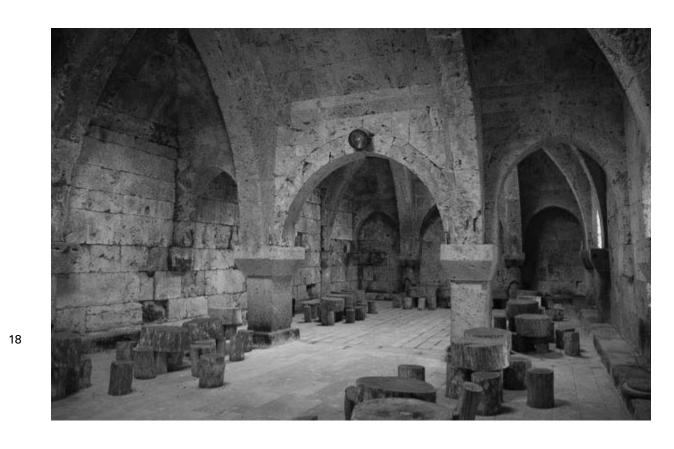
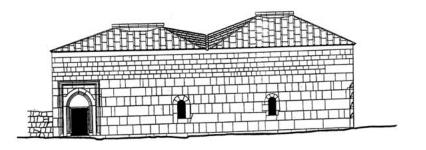
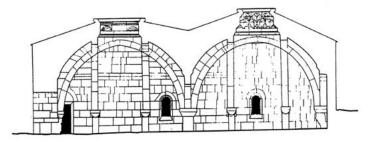


Fig 3 Haghartsin monastery's Refectory.





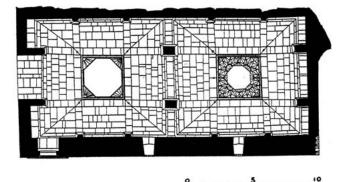


Fig 4 Refectory Elevation (top), cross-section (middle), and plan (bottom)



#### The Eternity Sign • հավերժության նշան • Արևախաչ

The "sun cross" is one of the most commonly used symbols in Armenian Architecture.

An ancient symbol of the national identity. Here seen on the Haghartsin monastery.

Bauer-Manndorff, Elisabeth (1981). Armenia: Past and Present. Reich Verlag. p. 89. "The circle, as a line returning upon itself, represented perfection. Having neither beginning, nor end, it was the symbol of eternity. The architects expressed the concept of everlasting, celestial life in the knowledge of the presence and effect of the divine power by sphere."

This form is how I decided to have a central big fire in the middle of my site, where the practice can be observed.

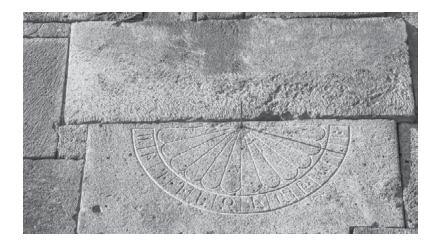


Fig 5 Sundial on Haghartsin monastery





Fig 6 Eternity Sign on Haghartsin monastery

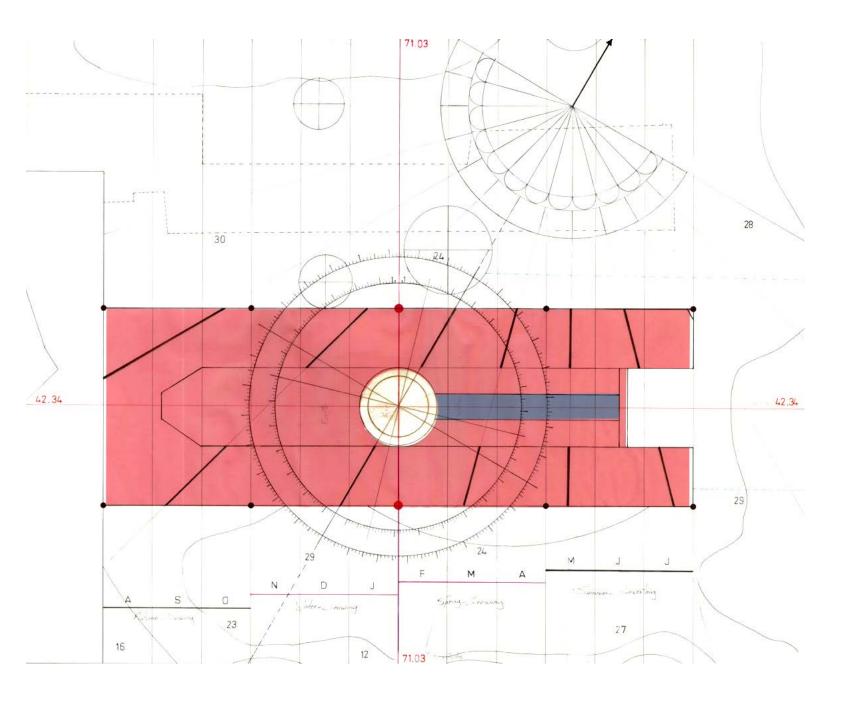


Fig 7 A hand drawing using the sundial and the compass to orient the site and generate the major grid.

#### **Connecting with Nature**

Lavash Ingredients: Flour • Sour Dough (ttkhmo) • Salt • Water

Its architecture analogy would be: Earth • Air • Water • Fire

For that, in order to successfully connect and transport the practice, it is primordial that architecture uses nature as it's reference point versus the city. It is "a cultural trend towards the essential, the basic, the roots." Earth, water, air and fire. The most basic elements of our universe is the closest analogy to lavash making and its ingredients.

25

This isn't a new concept. Architecture always made a connection with nature/landscape/ urbanism. But here, my attempt is to make connection thru the lens of one basic/bland food that we take for granted: Bread, more particularly Lavash.

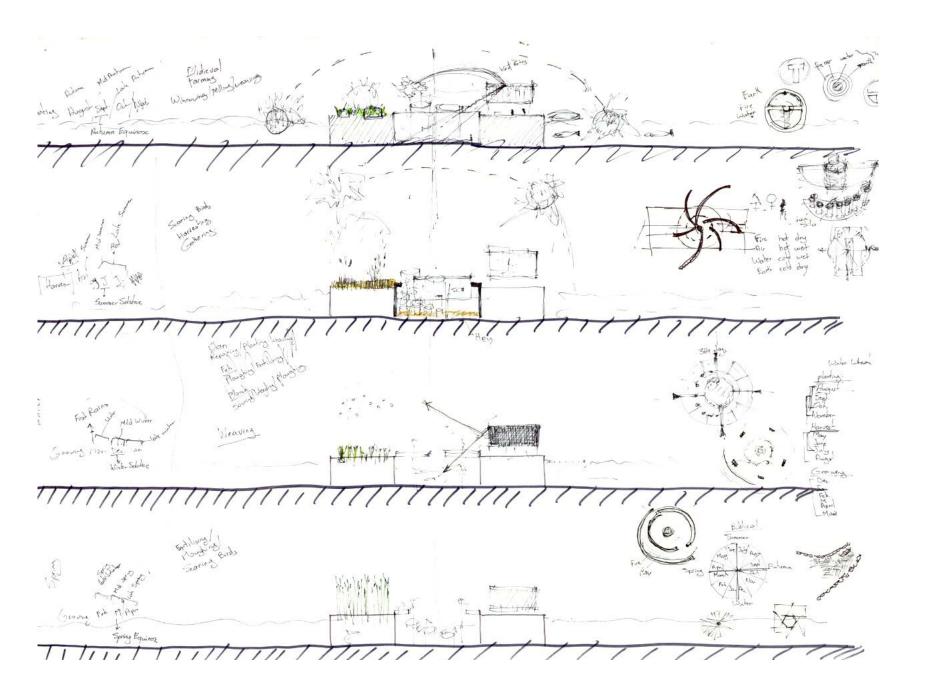
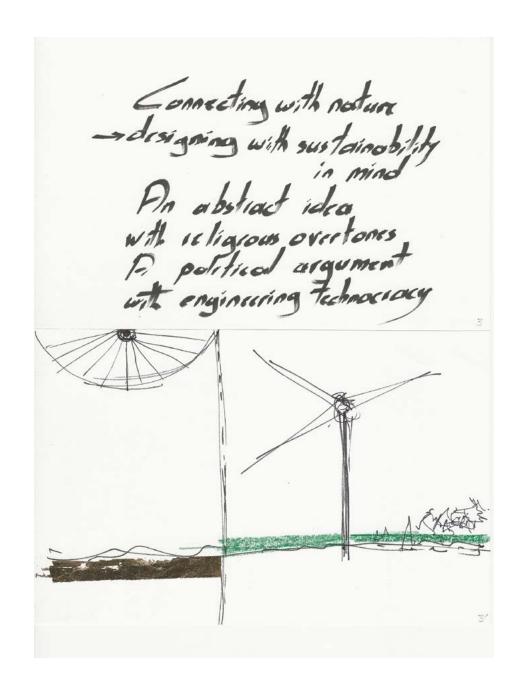


Fig 8 A section study of the different seasons. How wheat would grow on the site.

"Architecture and it's fabrication of walls, ground and roof is to protect us or rather to put a layer of separation between our physical body in a direct contact with the water, the earth, fire and the air yet our body needs to be nurtured from resources originated from these elements. There is a direct connection between this non-human fabricated environment and the natural/human unbuilt surrounding." Liquid from water, heat from fire, oxygène from the air, natural resources from the earth (here the wheat) are a necessity for survival but individually not sufficient. However, water and a bag of wheat along with some air and time for fermentation and fire for cooking hence having bread, would be enough for a lifelong living. "Bread is gold"

Transforming the gifts of nature into an achievment of a culture Sun is gold Wheat is gold "Bread is gold"

Por engagment with the natural world world Curating on experience Suddenly the ordinary browns, Bringing us to a sofe place F) Social Gastronomy



our relation with radure:

the presence of the bane coloments

earth, fire, water, water

Flehemy transforms

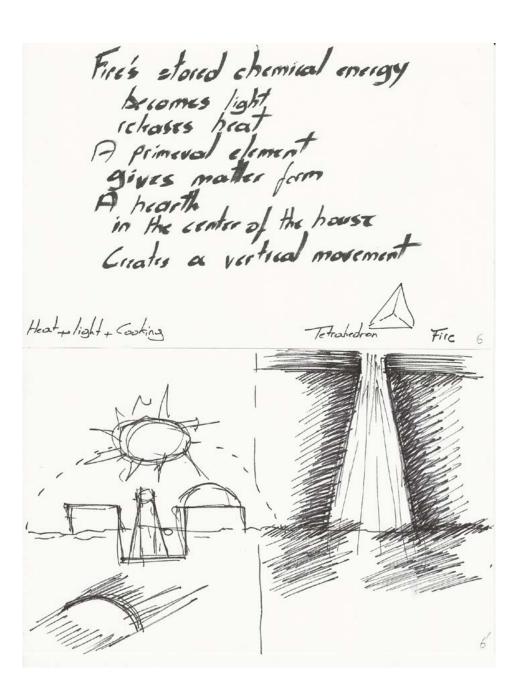
the physical form

of natural elements, of moder

activating our sentes

changing abstract to neality

Civing materiality in Flinkitactury



Water is formless, adapts to its container changing its form + volume liquid -, solid Polandscape of survival
Restaurant + transportation parallel to a glass water + flour - daugh



#### Making and Dissecting

Baking Lavash might seem like a very simple process since it's the combination of only four basic ingredients. However, there's a lot of science in how these four ingredients are mixed. Variables: temperature, water source, sour dough, freshness of the wheat....they all change the bread's characteristics. This is aside the mastery it takes to roll the dough so thin.

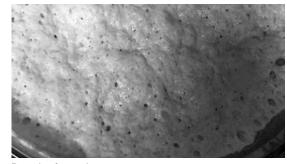
The secret to making a good lavash lies on the freshness of the ingredients, the fermentation method and mostly in cooking it in a Tonir. This prompt me to look at the ingredients of lavash under the microscope first then to have the lavash and its ingredients dessicated this time to look at with the SEM (Scanning Electron Microscope.)

Perhaps, enjoying it with friends might be the most important thing! At least that's what I see the architecture's role should be in making a space for a practice.





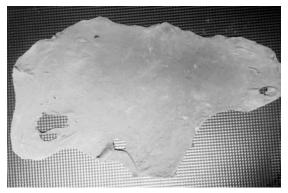
Dough: Flour, Ttkhmor, Salt, Water



Dough after ~4hours



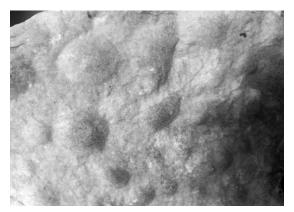
Divide + Rest for ~30min



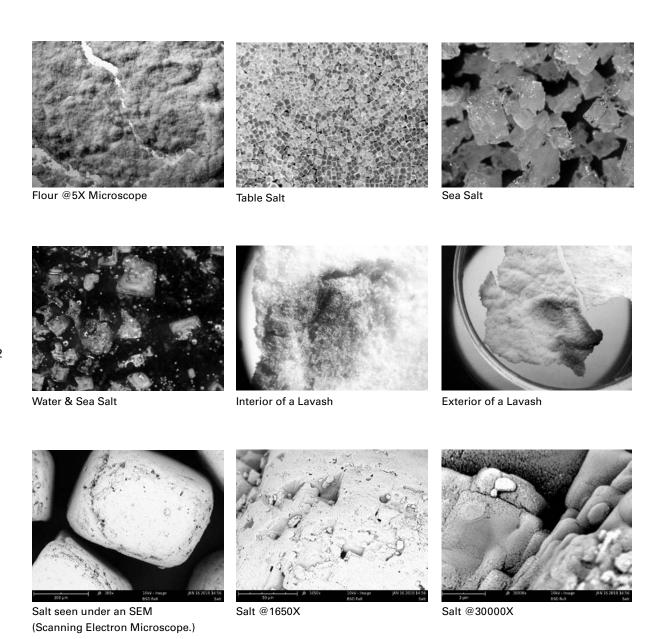
Shape

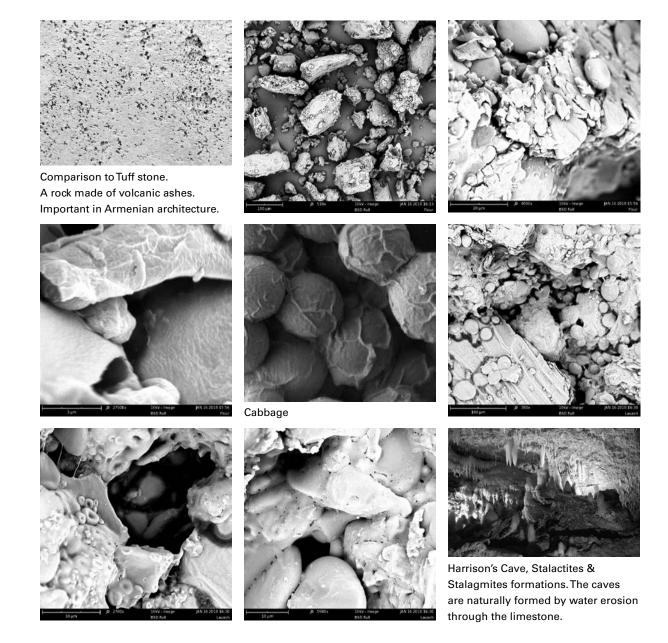


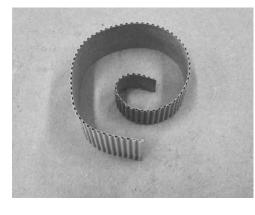
Bake



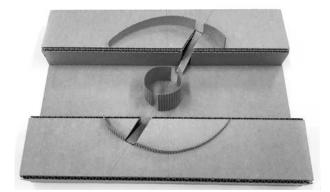
My Lavash



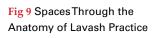


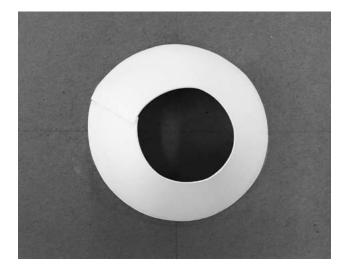




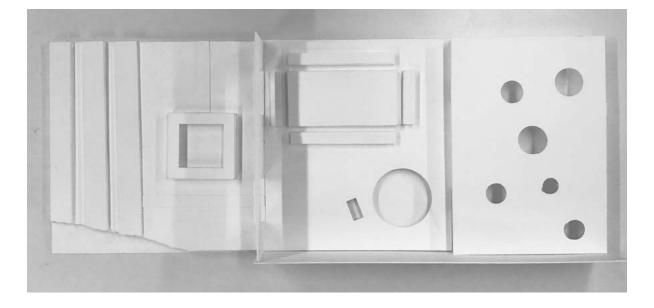




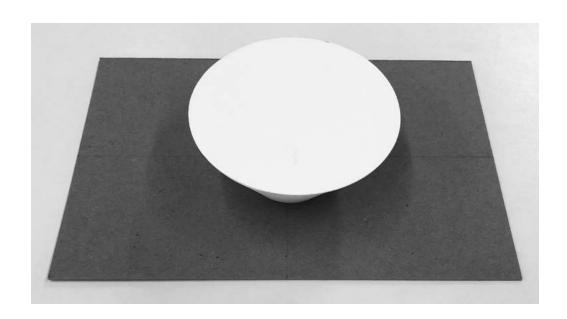


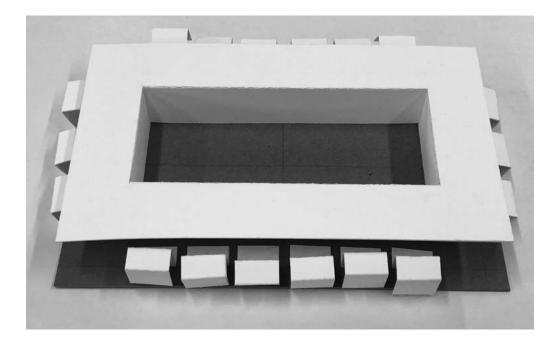


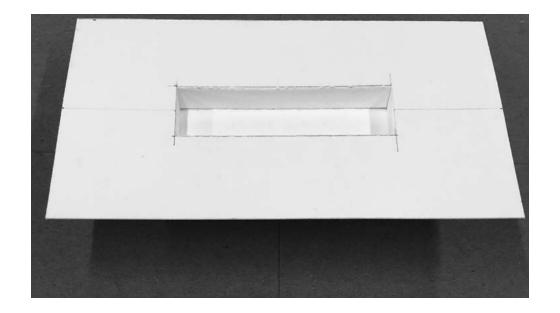


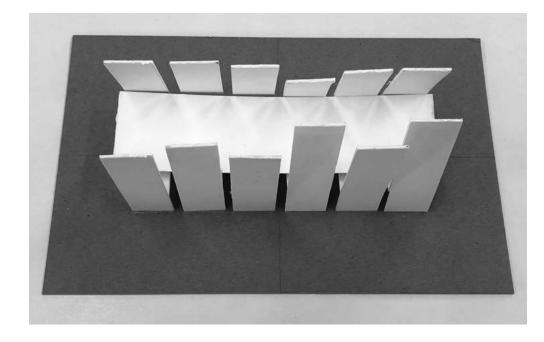


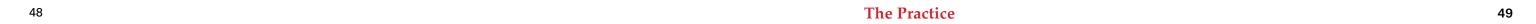


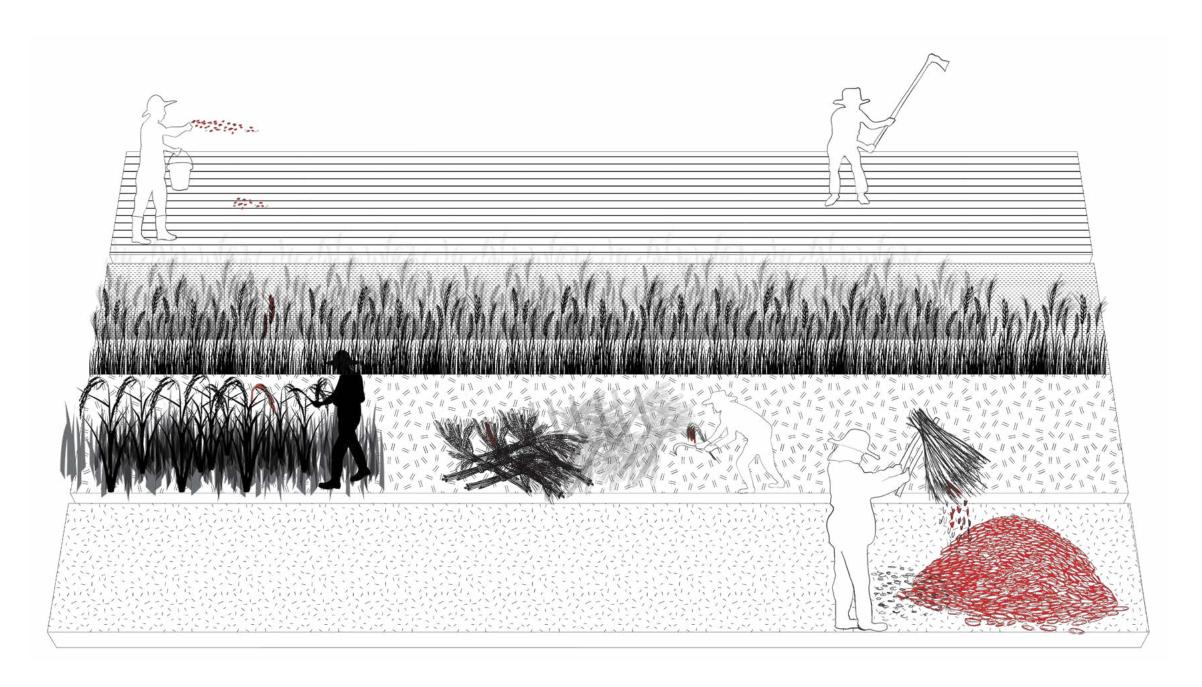


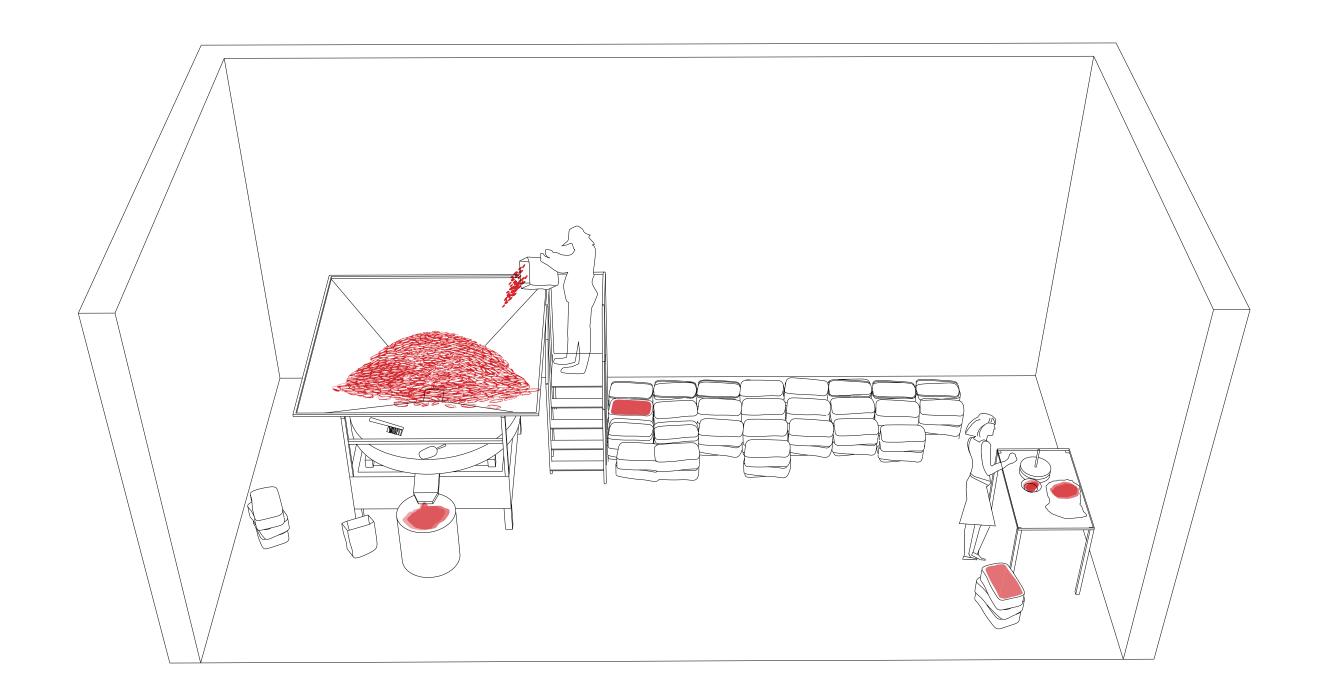


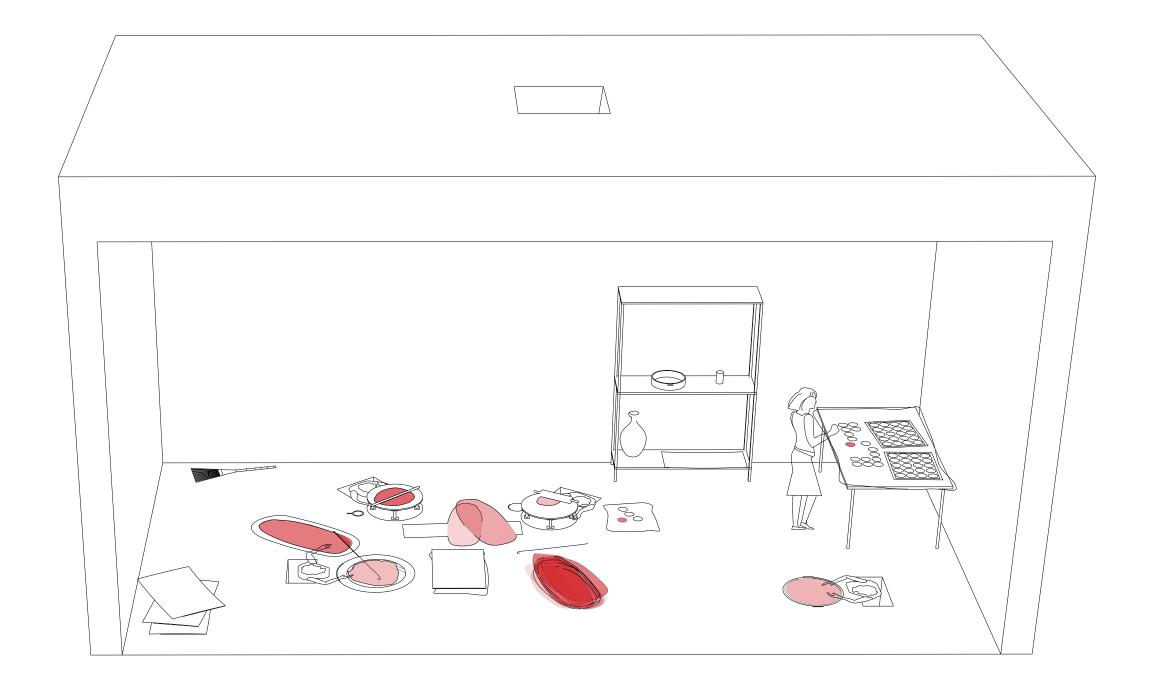


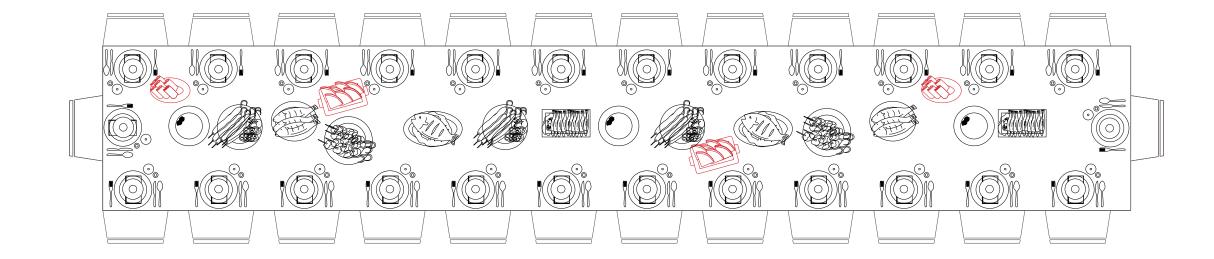


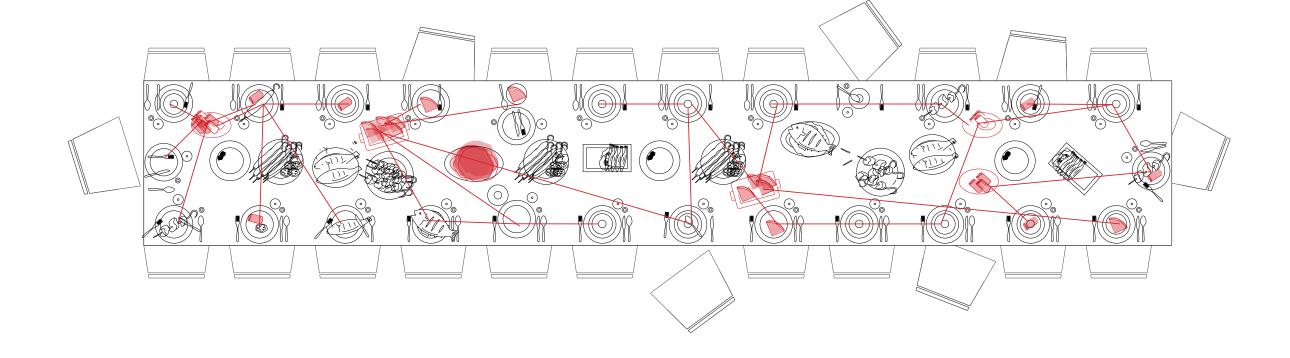








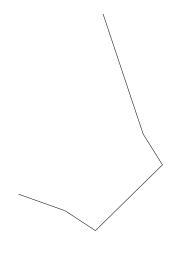


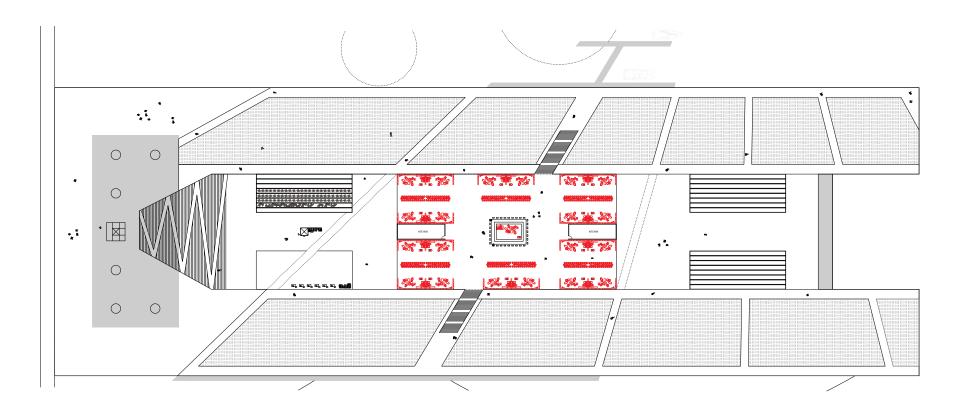


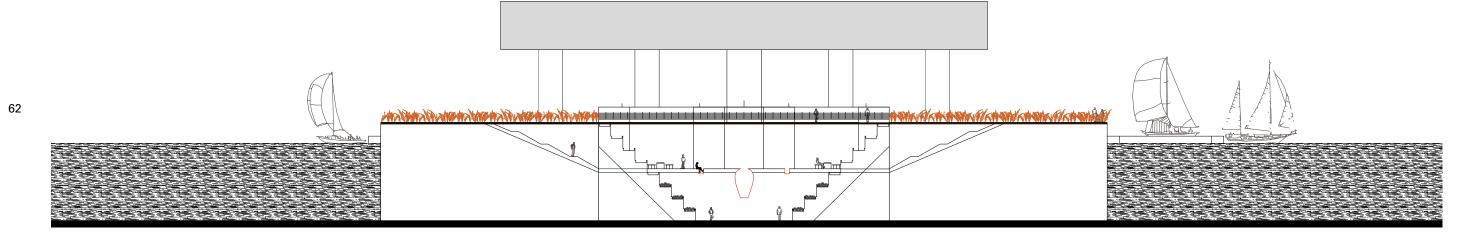




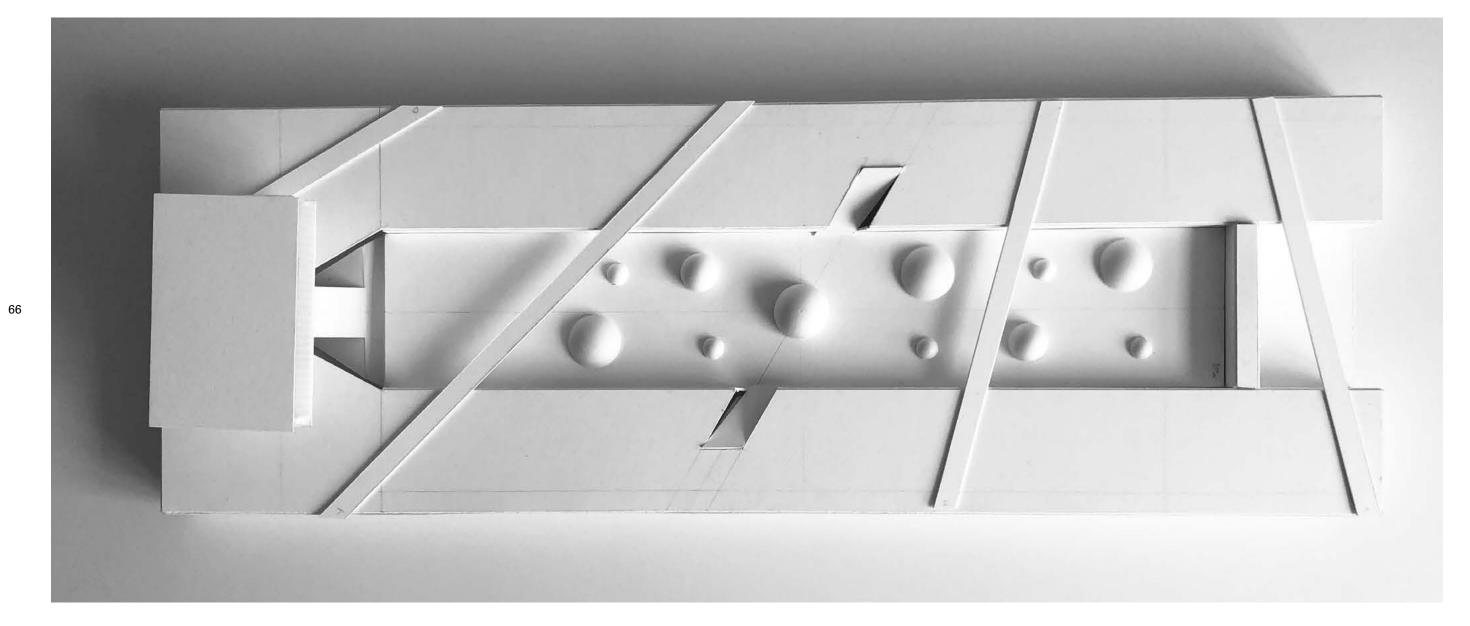
















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This book is set in Palatino Bold, Univers LT Std 55 Roman and 55 Oblique and Mshtakan.