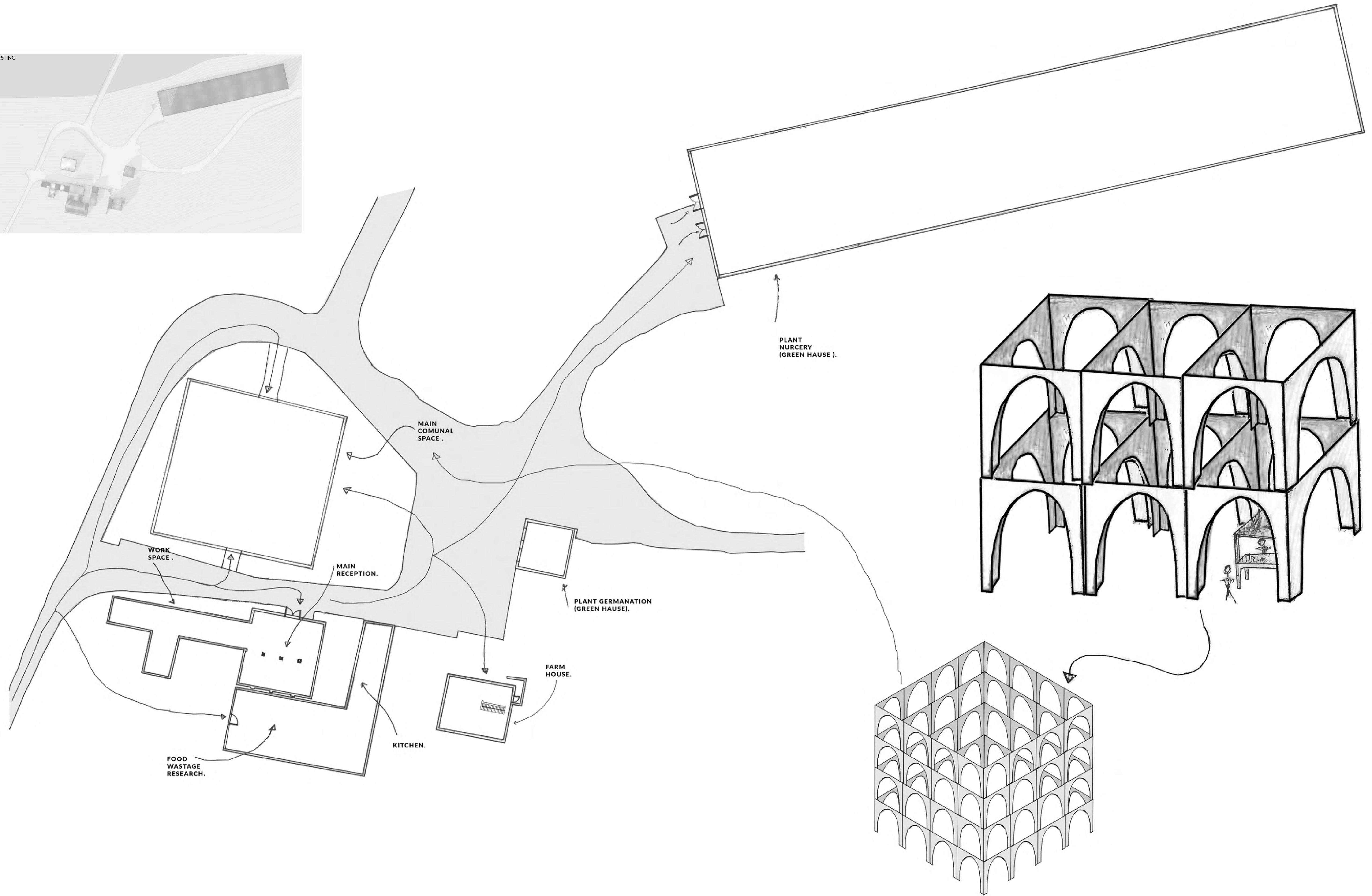
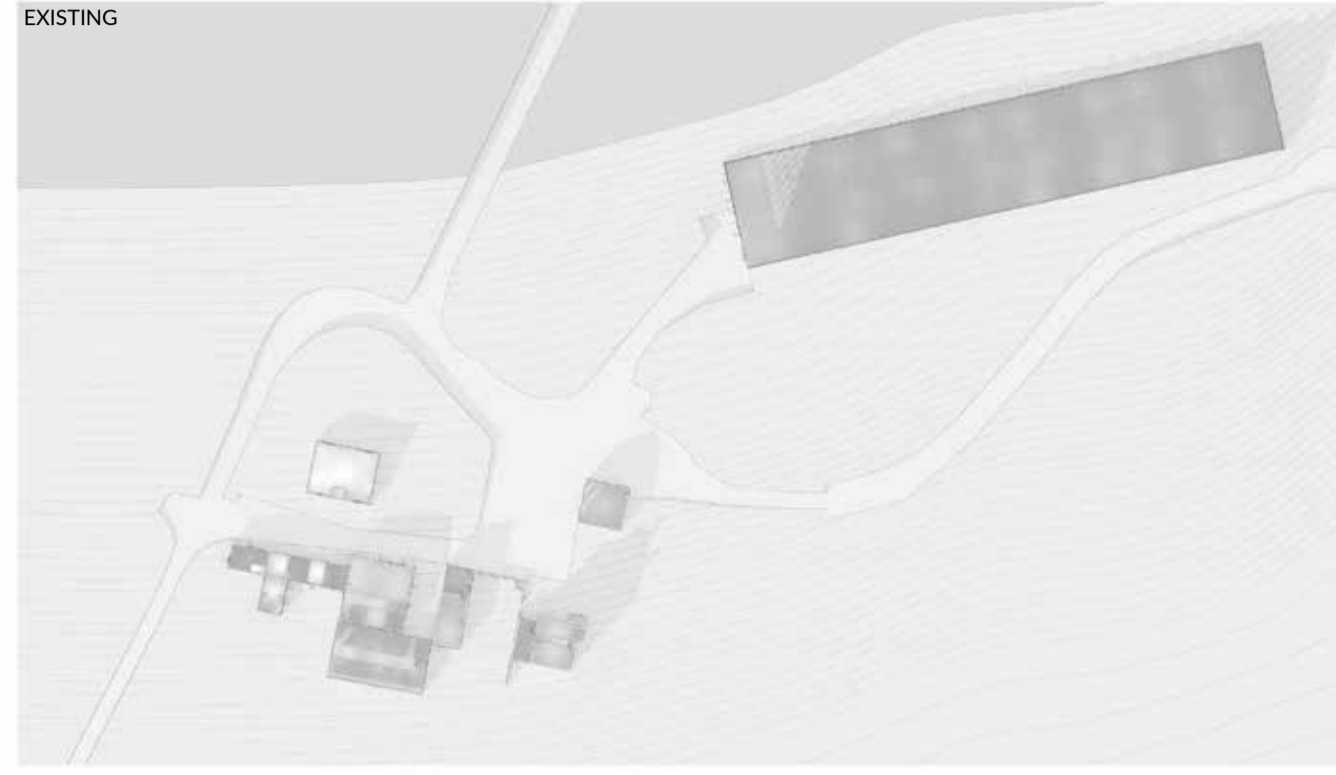


**DESIGN.**

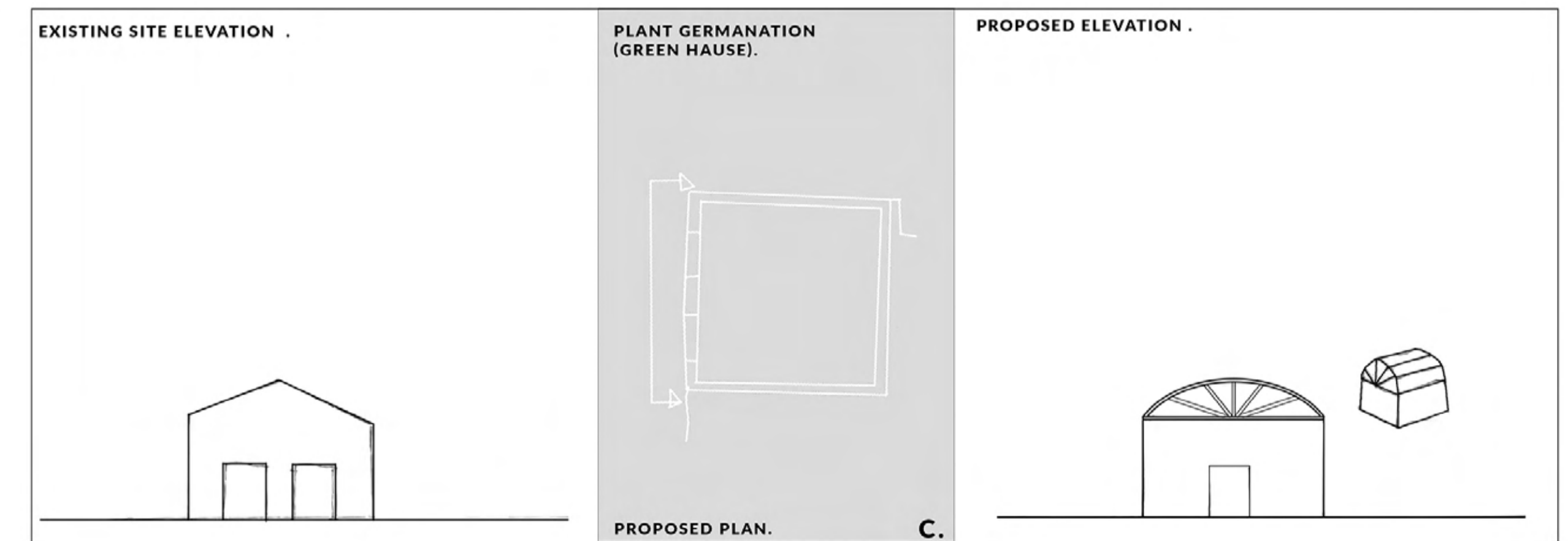
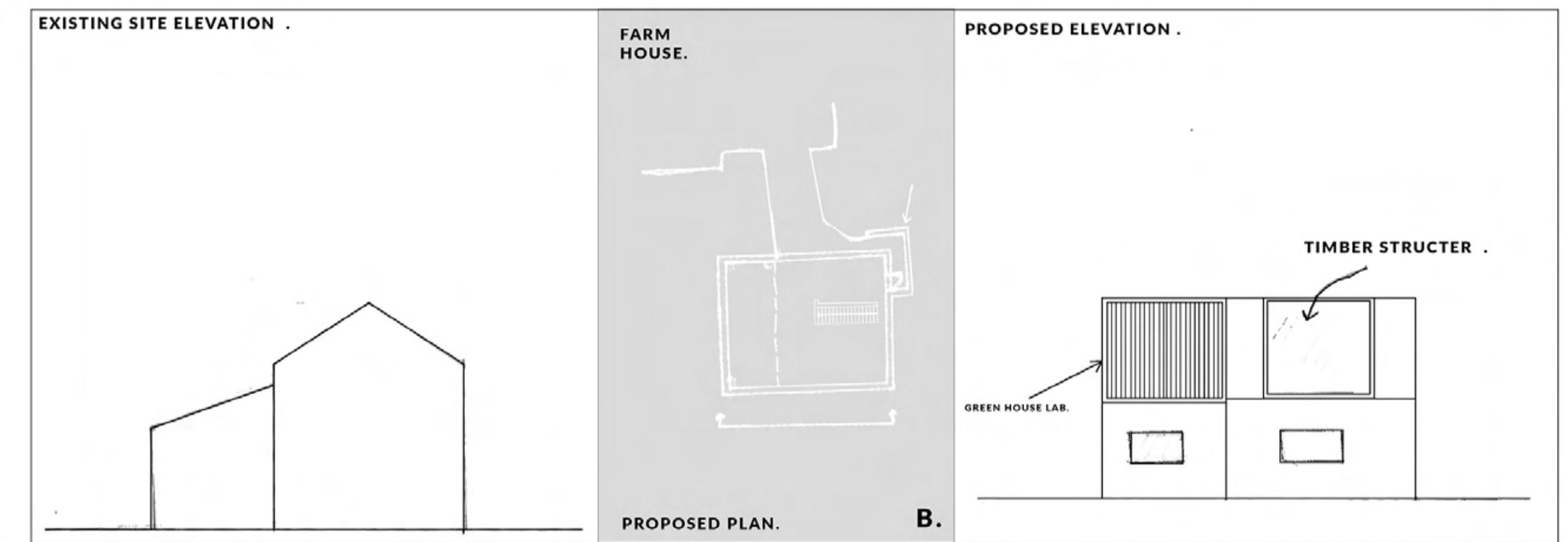
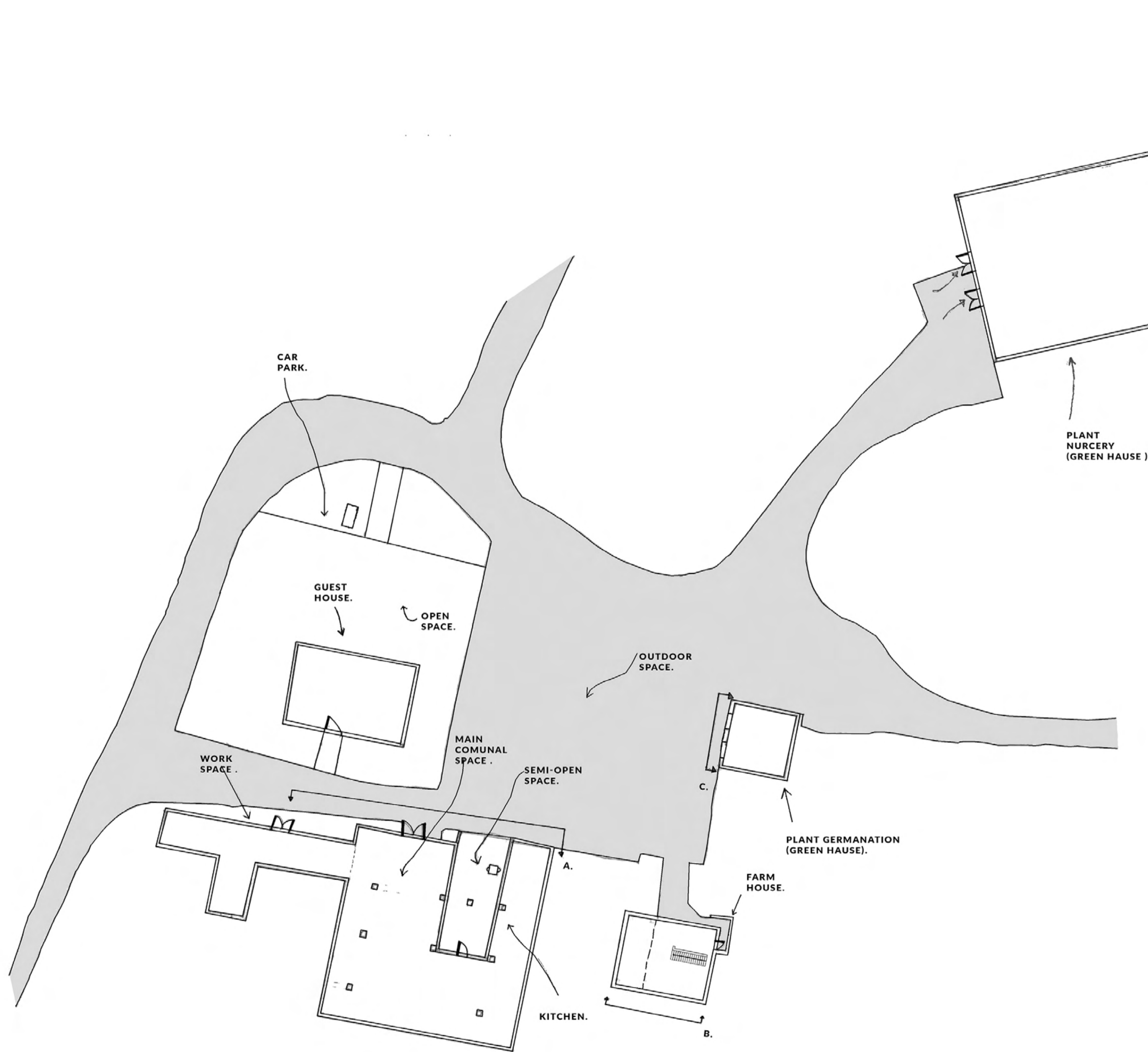
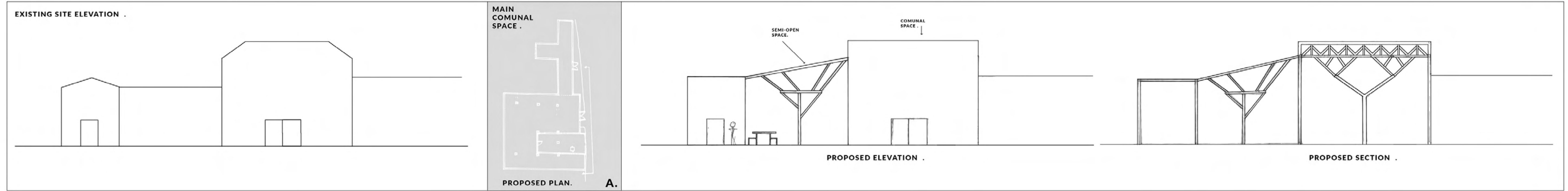
# DESIGN.

SKETCH  
ITERATION 1



# DESIGN.

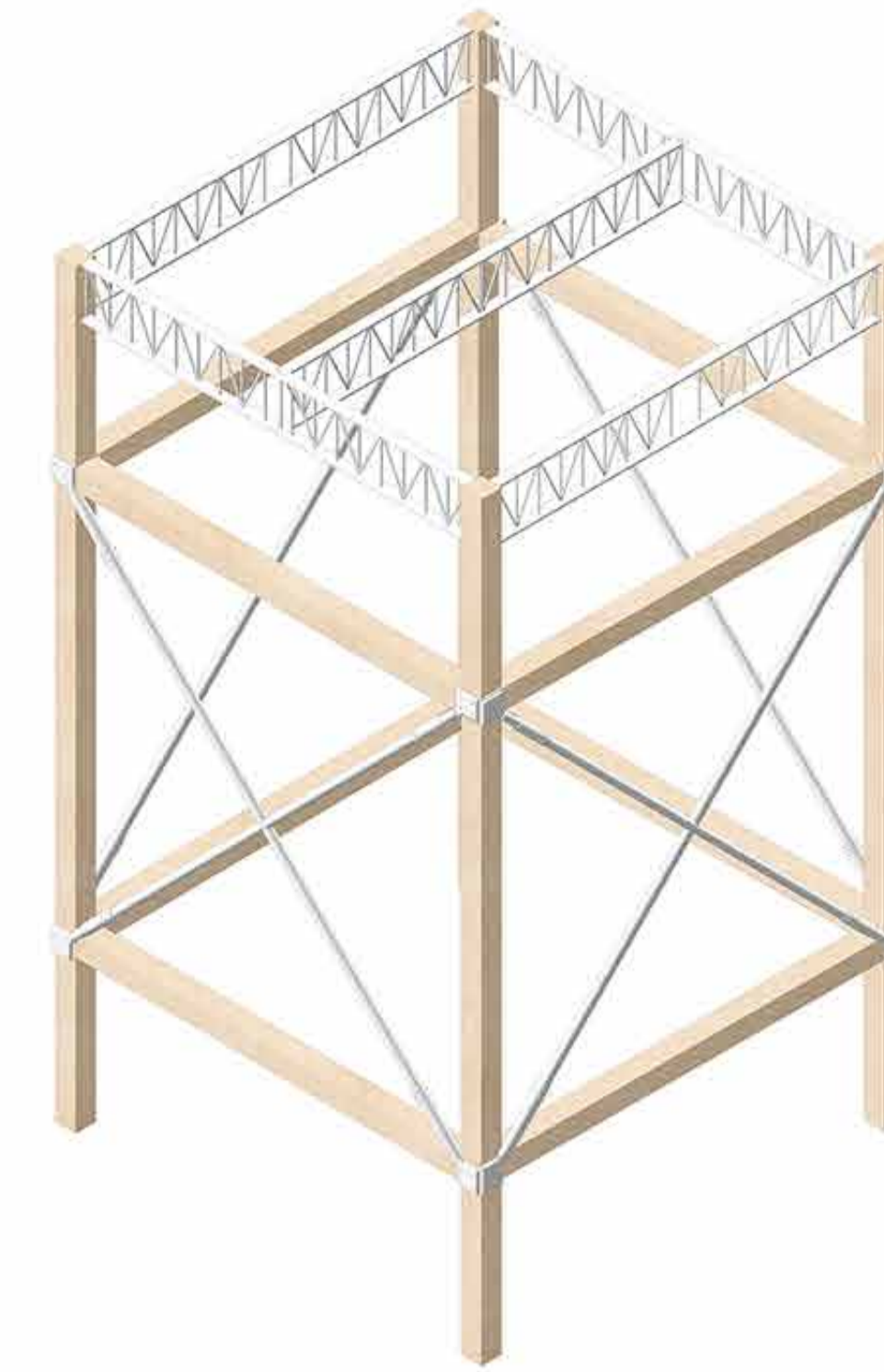
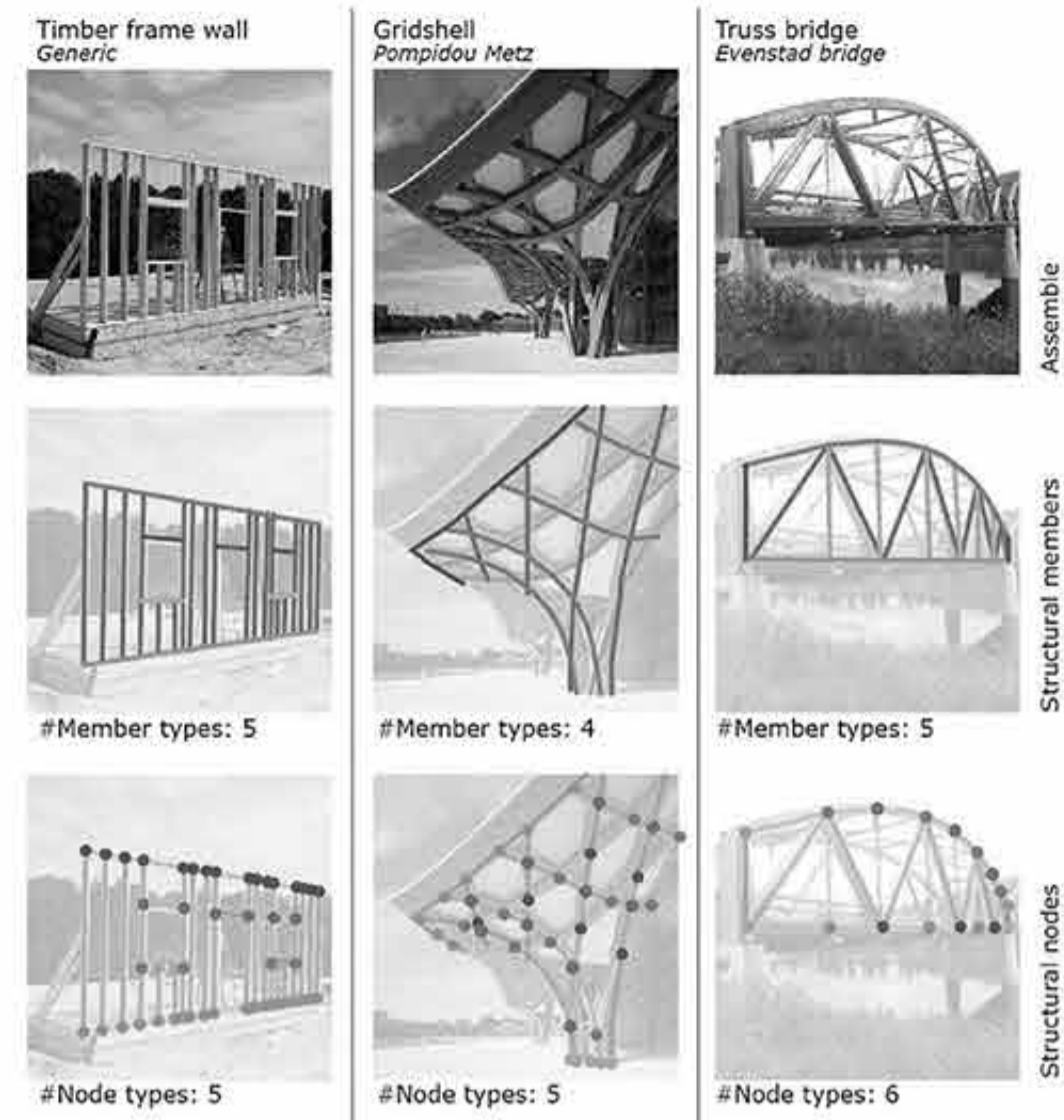
SKETCH  
ITERATION 2



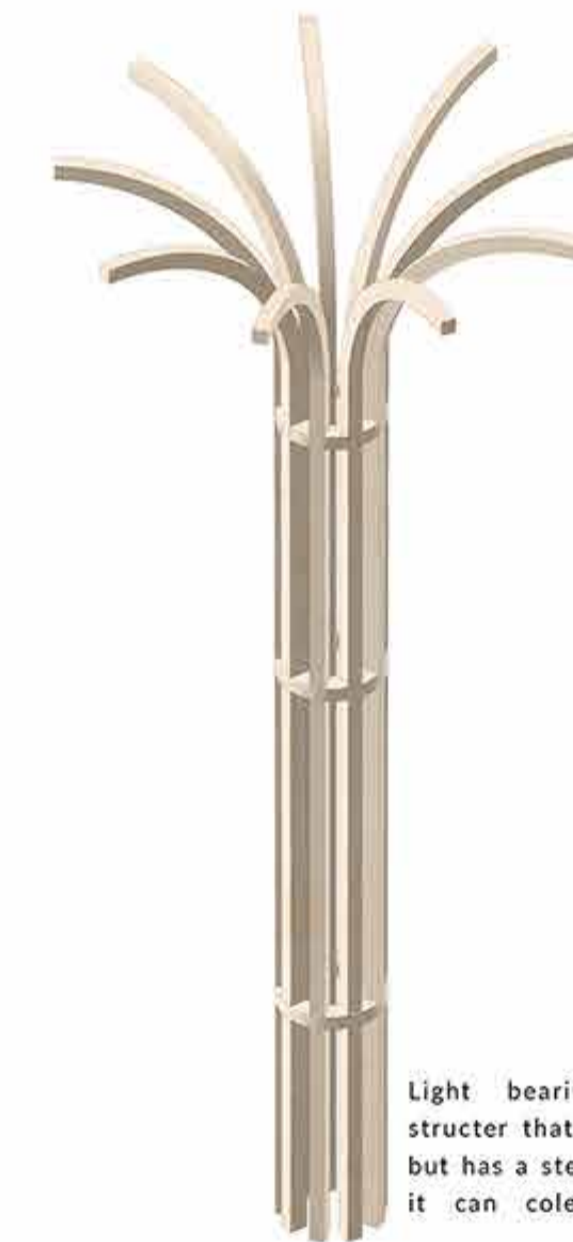
**DESIGN RESEARCH.**

# DESIGN.

TIMBER STRUCTURAL RESEARCH



This would be a thick load bearing pillar and would have a steel structure with foundations connected.



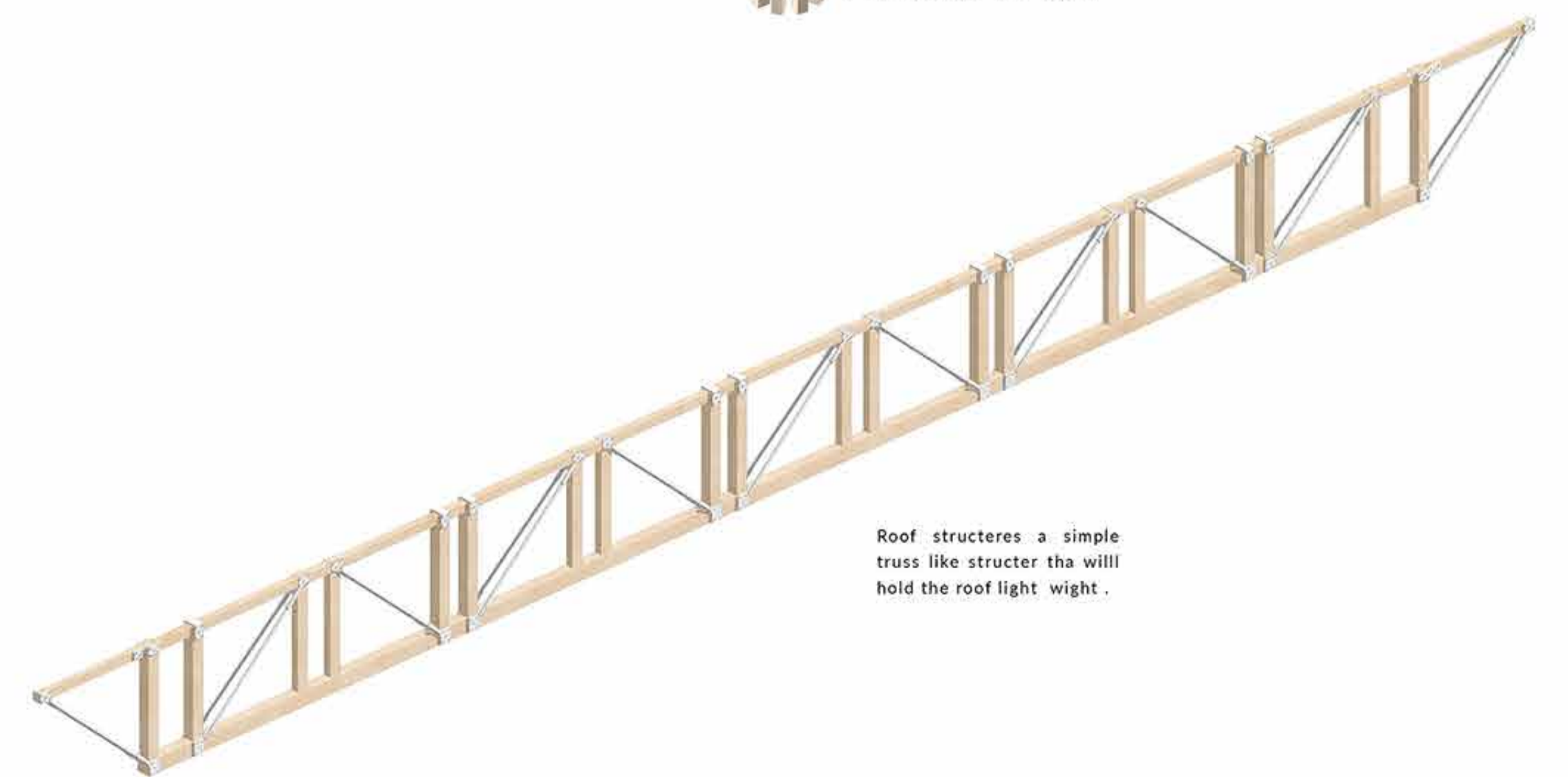
Light bearing pillar like structure that holds the roof but has a steel structure also it can collect rain water



This would be a thick load bearing pillar and would have a steel structure with foundations connected.



Light bearing pillar like structure that holds the roof but has a steel structure also it can collect rain water



Roof structures a simple truss like structure that will hold the roof light weight.

This page looks into researching timber structures then drawing my own ideas in response to the timber structures. This structure will inevitably be used in my designs. Some of these structures will help to pump water to the farm. I have learnt that timber is a very diverse material and therefore diverse structures that can be very diverse.

# APPEARANCE AND MATERIALITY.

SUSTAINABLE CONSTRUCTION



Examples of varied brick and flint random/blended walling

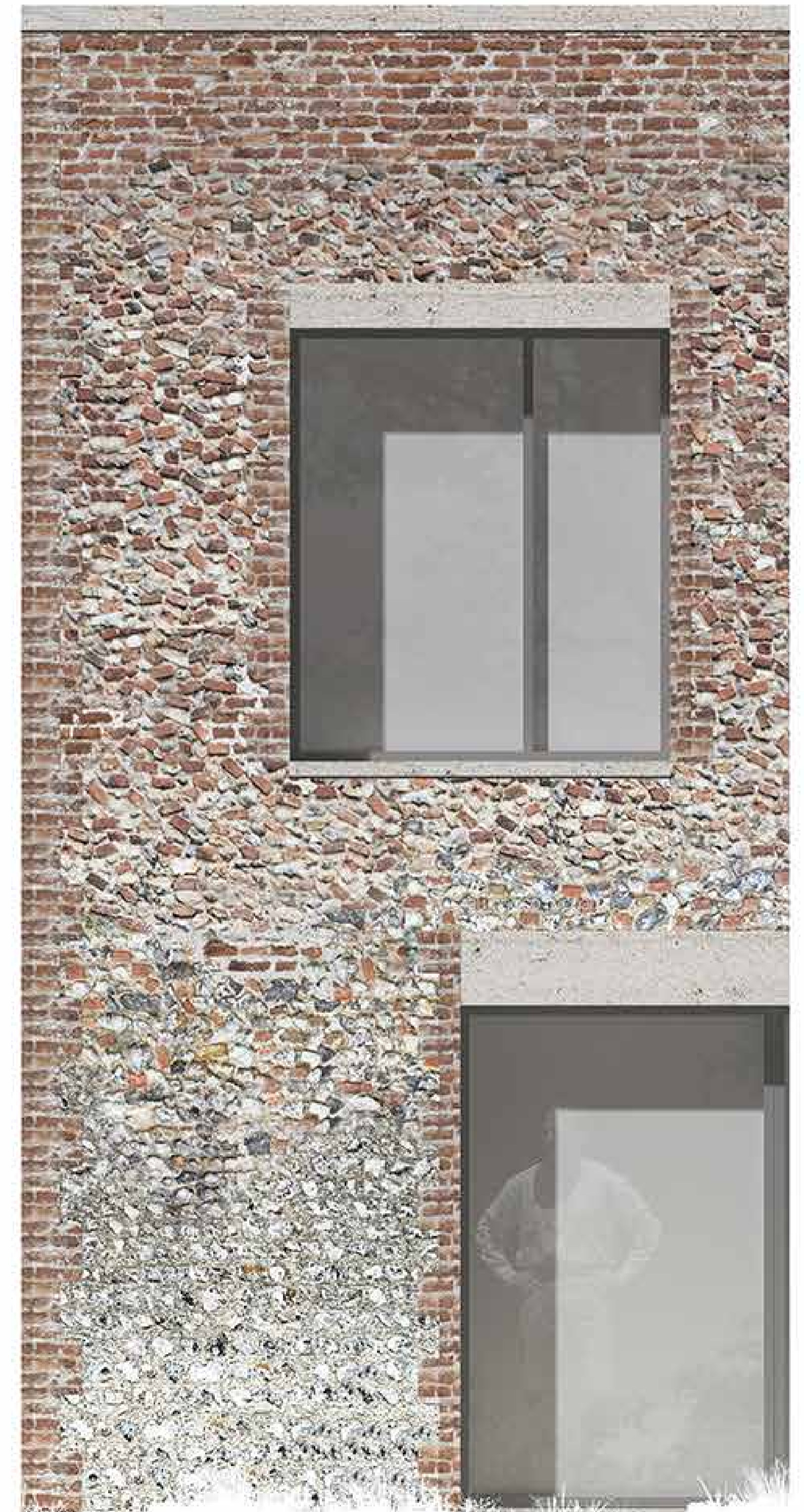
Mixed brick and flint walls at Charleston Farmhouse, Firle, East Sussex



STONERY FARM :North elevation of the Main Flint Barn



Re-use of recycled materials and demolition waste to create bespoke graded masonry



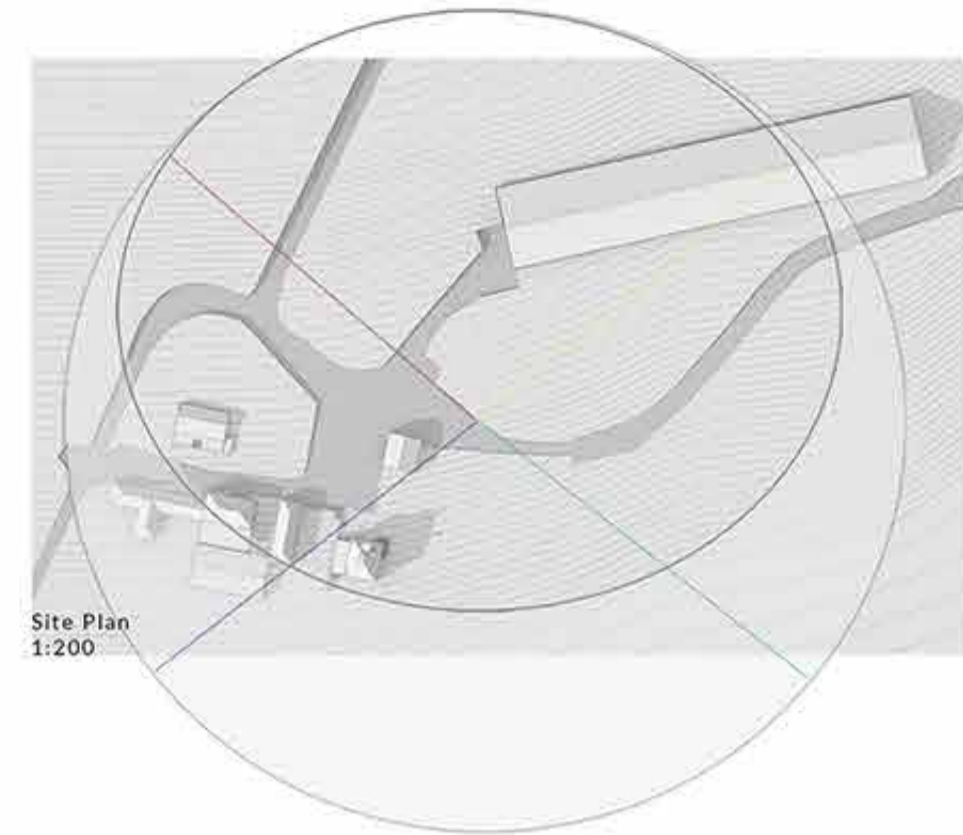
For this exposed and prominent site our intent is to select robust self-finished materials which will weather naturally, develop character and which reflect the tonal and textural qualities of the site and the surrounds. In this way we believe the building will embed itself in its context and be respectful. Flint and brick are the key elements of the local vernacular although used in a variety of ways depending on the status and date of the building. Bricks are not solely for at the corner and reveals but often interspersed within the flintwork either randomly or in a more decorative manner.

# ENVIRONMENTAL STRATEGY.

PROPOSING DESIGN IDEAS FOR THE AUDITORIUM

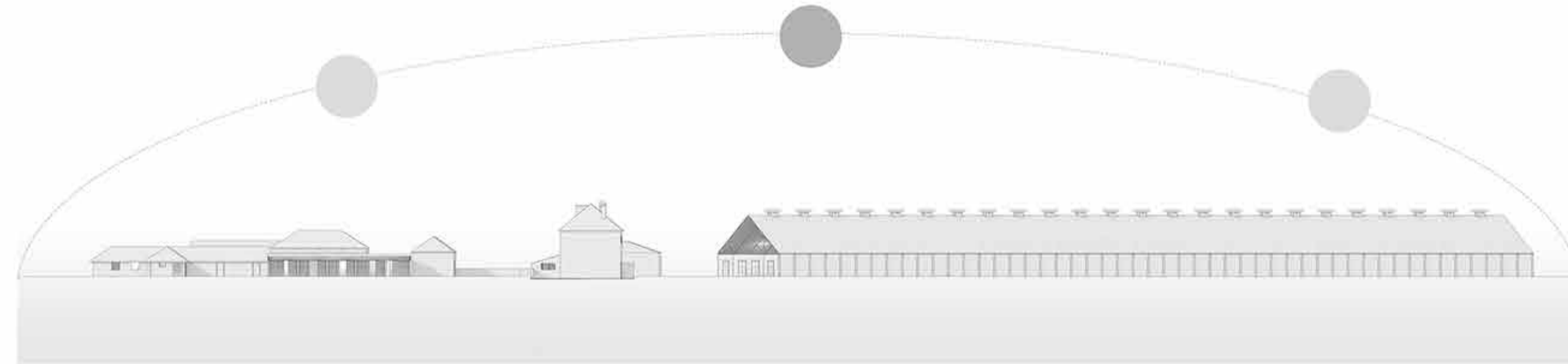
## LIGHTING

Sun Path Diagram

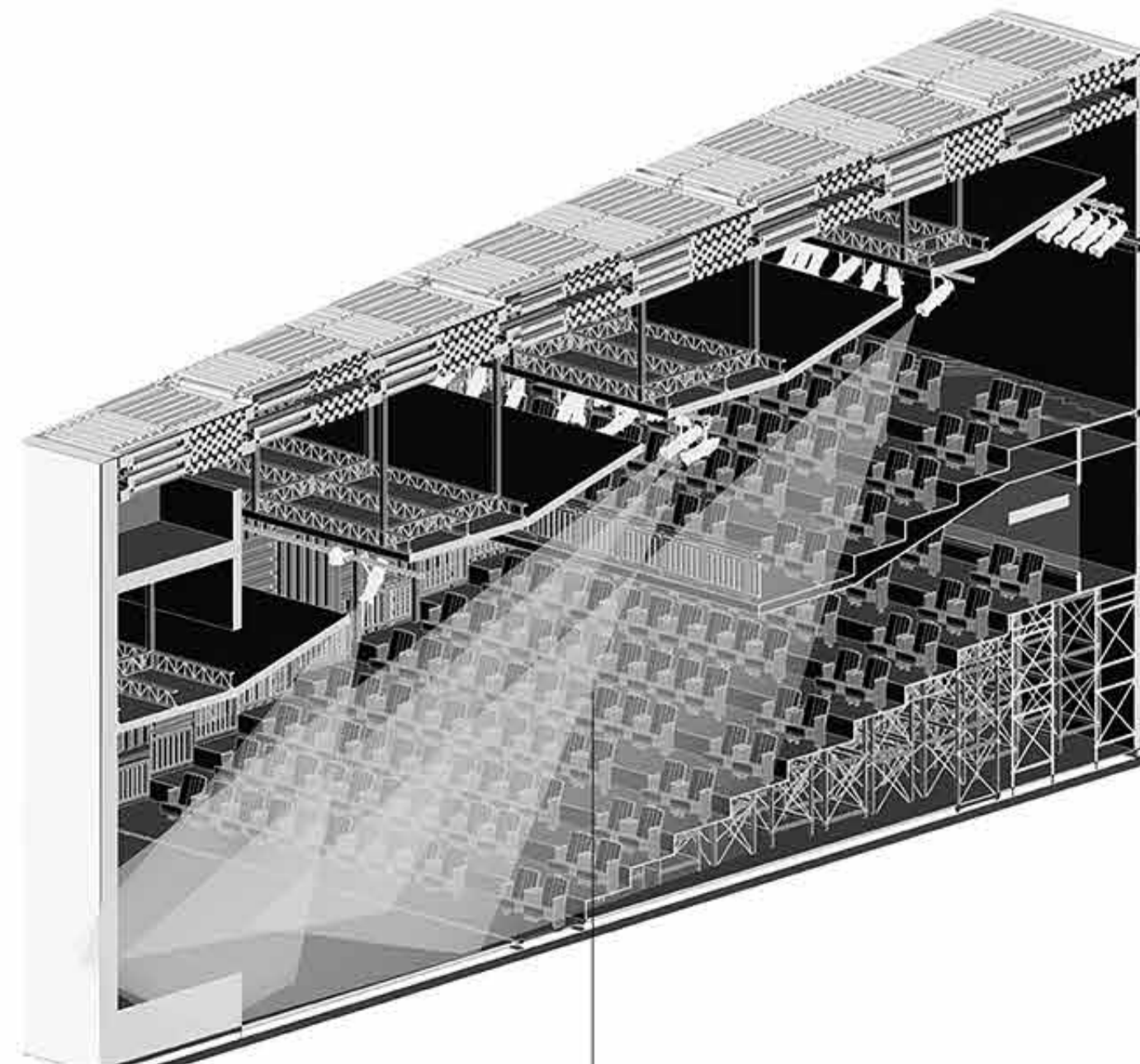
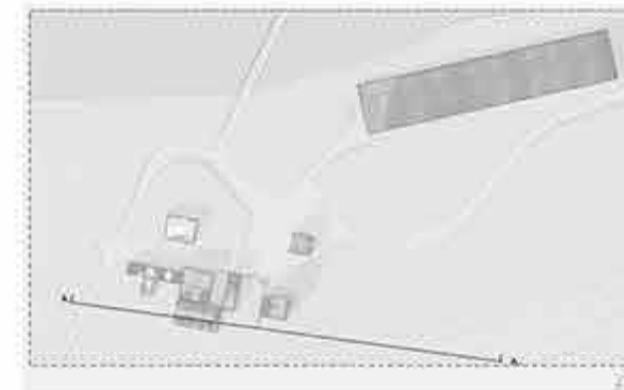


Site Plan  
1:200

Summer	Winter
5:00am - Sunrise	5:00am - Sunrise
9:00pm - Sunset	3:00pm - Sunset



Site Section  
1:200  
Summer 01  
Winter 02



## ARTIFICIAL LIGHT

Knowing the natural light and how it affects stoney farm I decide that natural light is not suitable for a theauditorium as it is hard to controll hence artificial light for the in side of the theater is better.

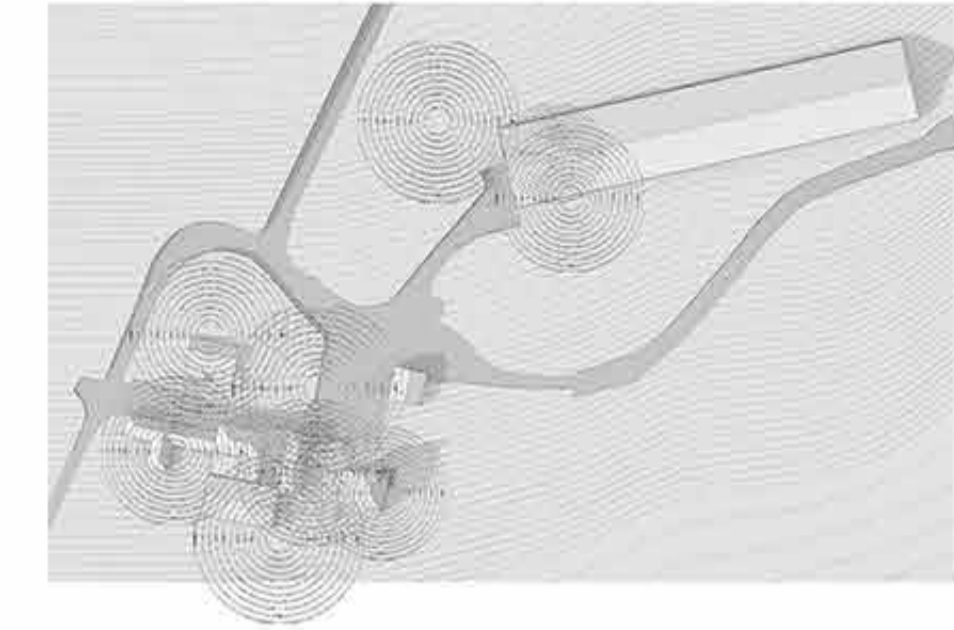
## ACUSTICES

Basic acoustc criteria for a Theatre  
 Must have low ambaint nois leval  
 Provide reasonabel level of acoustic gain,  
 Provide apropreiate revebaration time  
 Avoid echoes

These criterias rely on shape, size, seating arangement and audince capacity of the theatre .

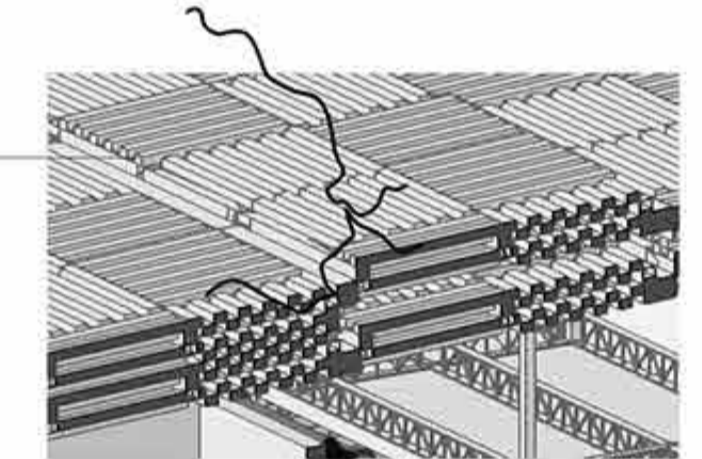
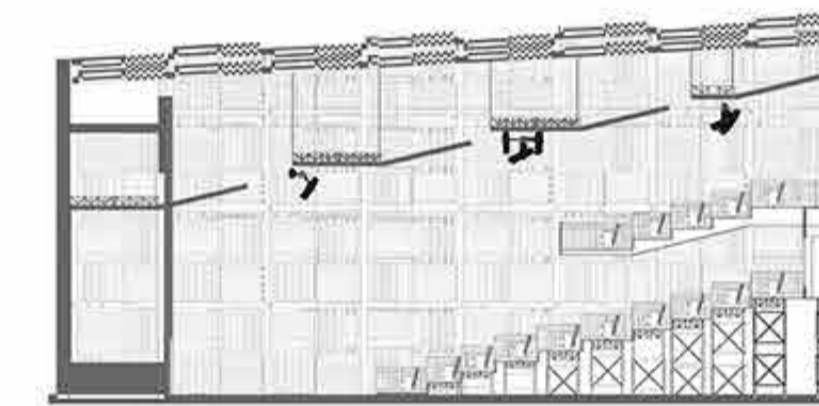
My hall was designed for music perfomence so the reverbratime increases .

Sound Diagram  
unwanted external noise  
(cars, pedestrians and botes)

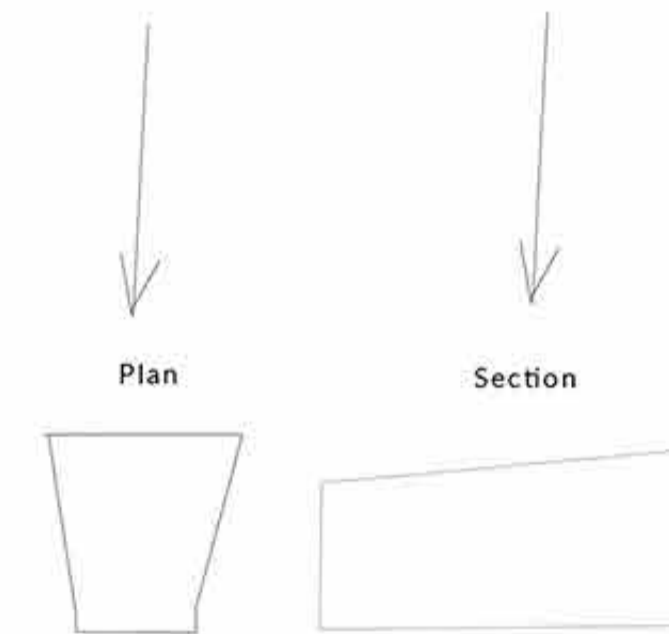


There was allot of external and unwanted noise sourounding my site as can be seen on the diagarm this was cosidered and decided to insulate the extenal walles and roof with CLLT clabes to creat and disepate the un wanted noises as seen bileow.

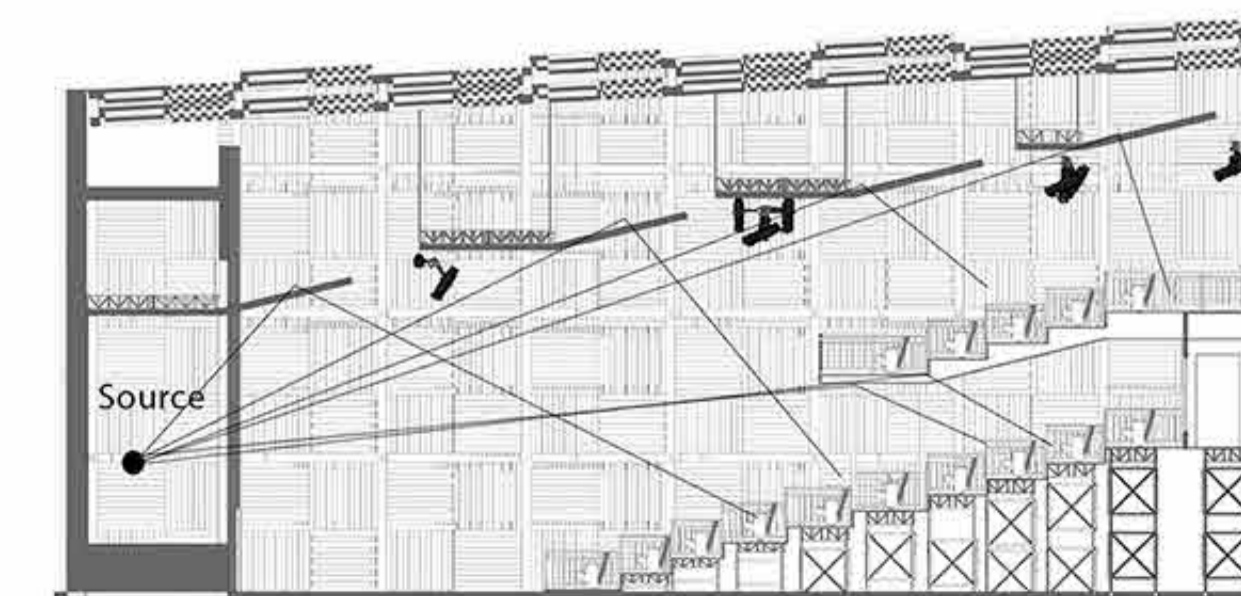
The external souds lossenergy from boucing from different opstecles (roof tiles ).



The shap of the building hepls reverbaration time in my case the theatre tapers up wareds wich gives the theatre a longer reverbration time .



Finally to create better acoustic gain placed timber sound deflectores to direct and focus the sound from the source to the audiance i thought this was needed my audotorium will have a better sound focus.



**FINAL DESIGN.**

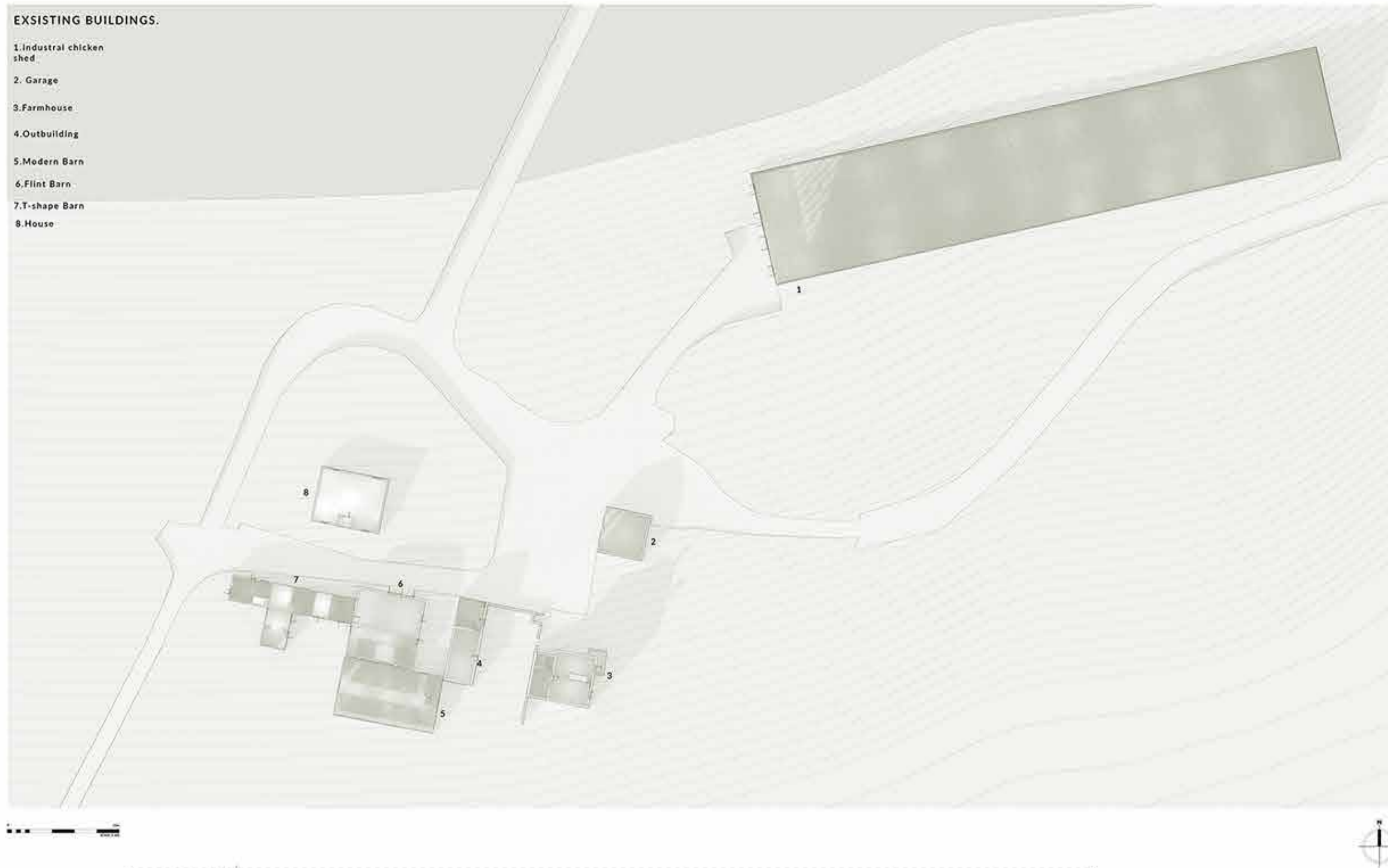


# DESIGN.

ITERATION 3

## EXISTING BUILDINGS.

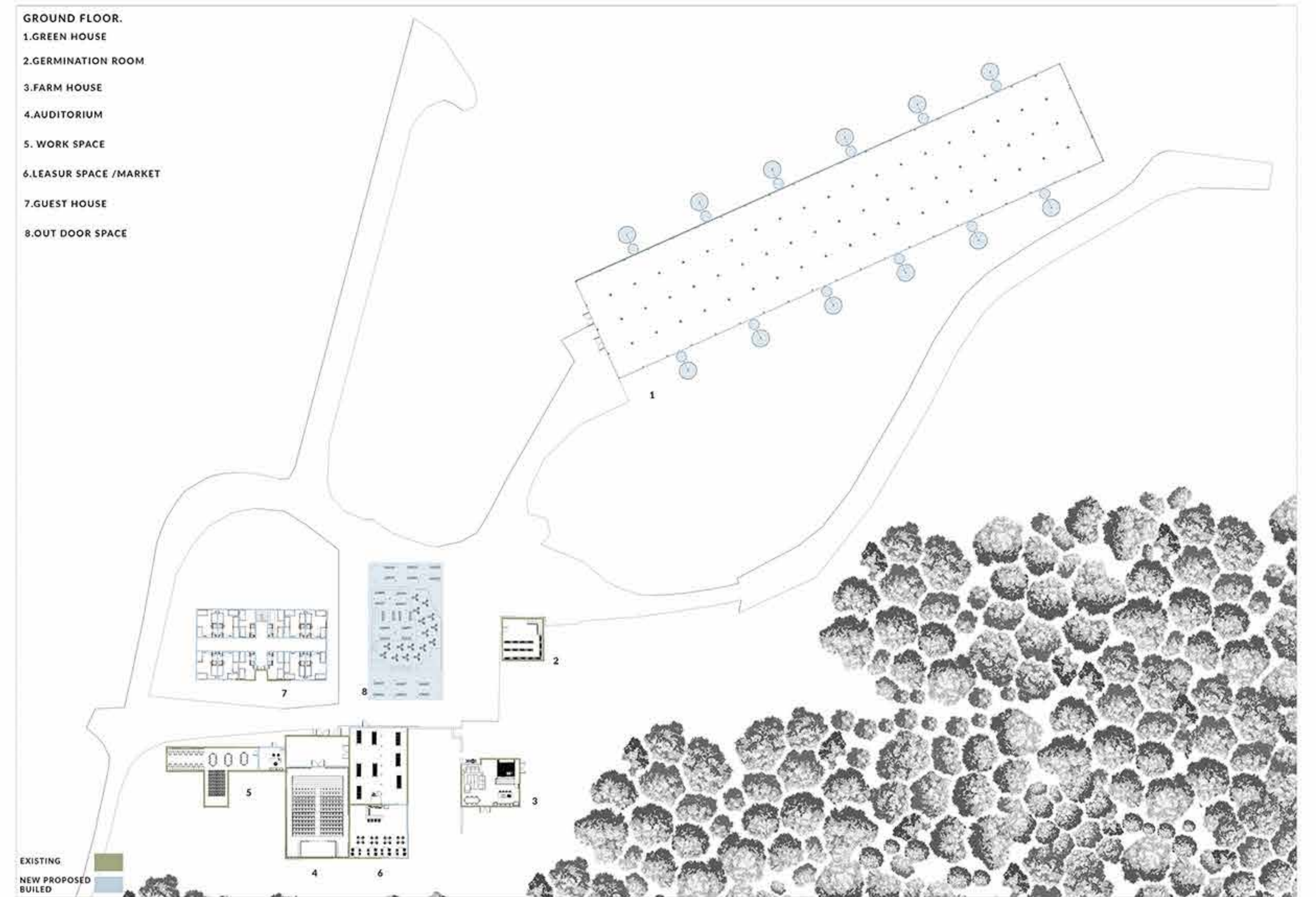
1. Industrial chicken shed
2. Garage
3. Farmhouse
4. Outbuilding
5. Modern Barn
6. Flint Barn
7. T-shape Barn
8. House



## GROUND FLOOR.

1. GREEN HOUSE
2. GERMINATION ROOM
3. FARM HOUSE
4. AUDITORIUM
5. WORK SPACE
6. LEASUR SPACE / MARKET
7. GUEST HOUSE
8. OUT DOOR SPACE

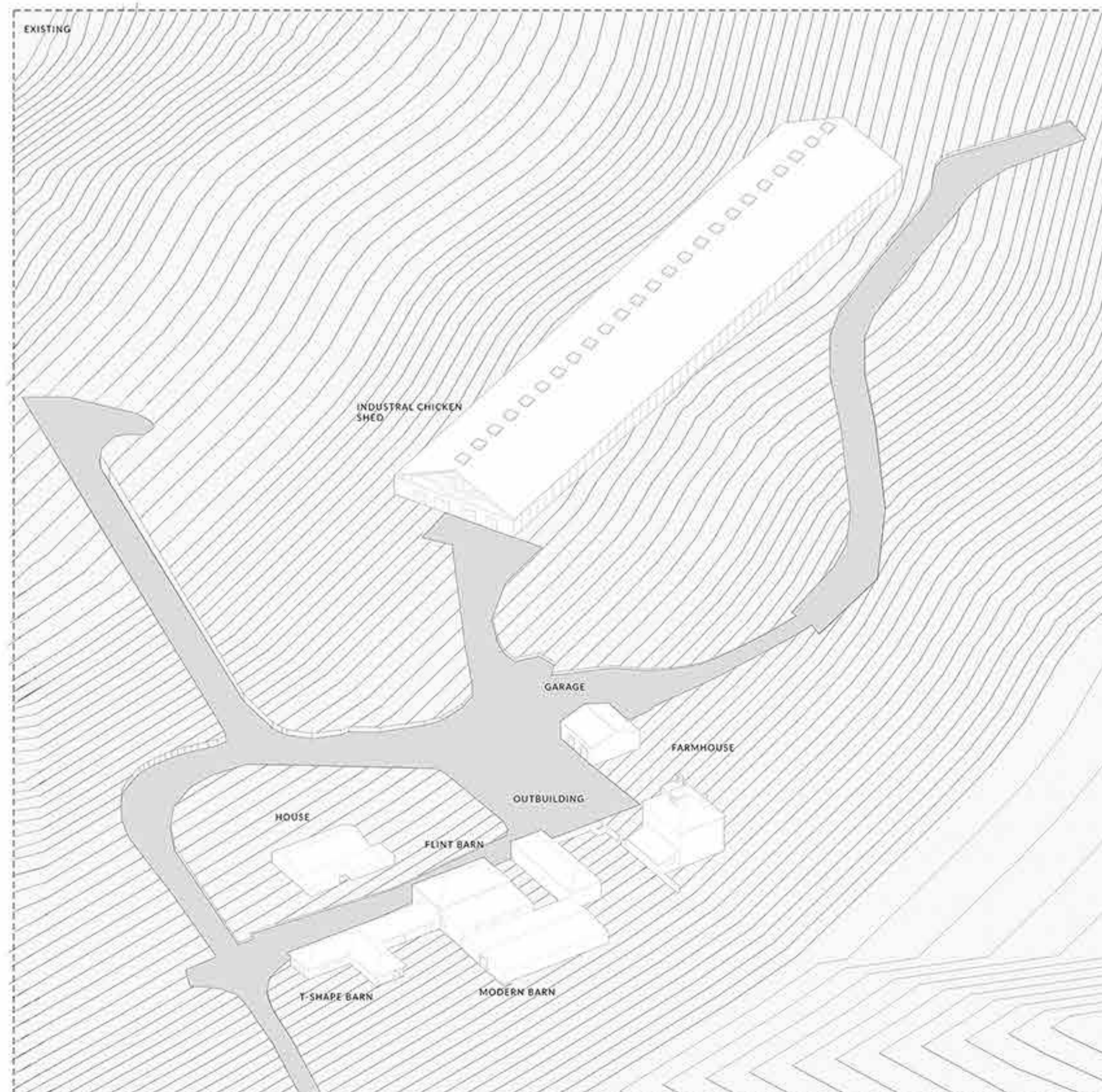
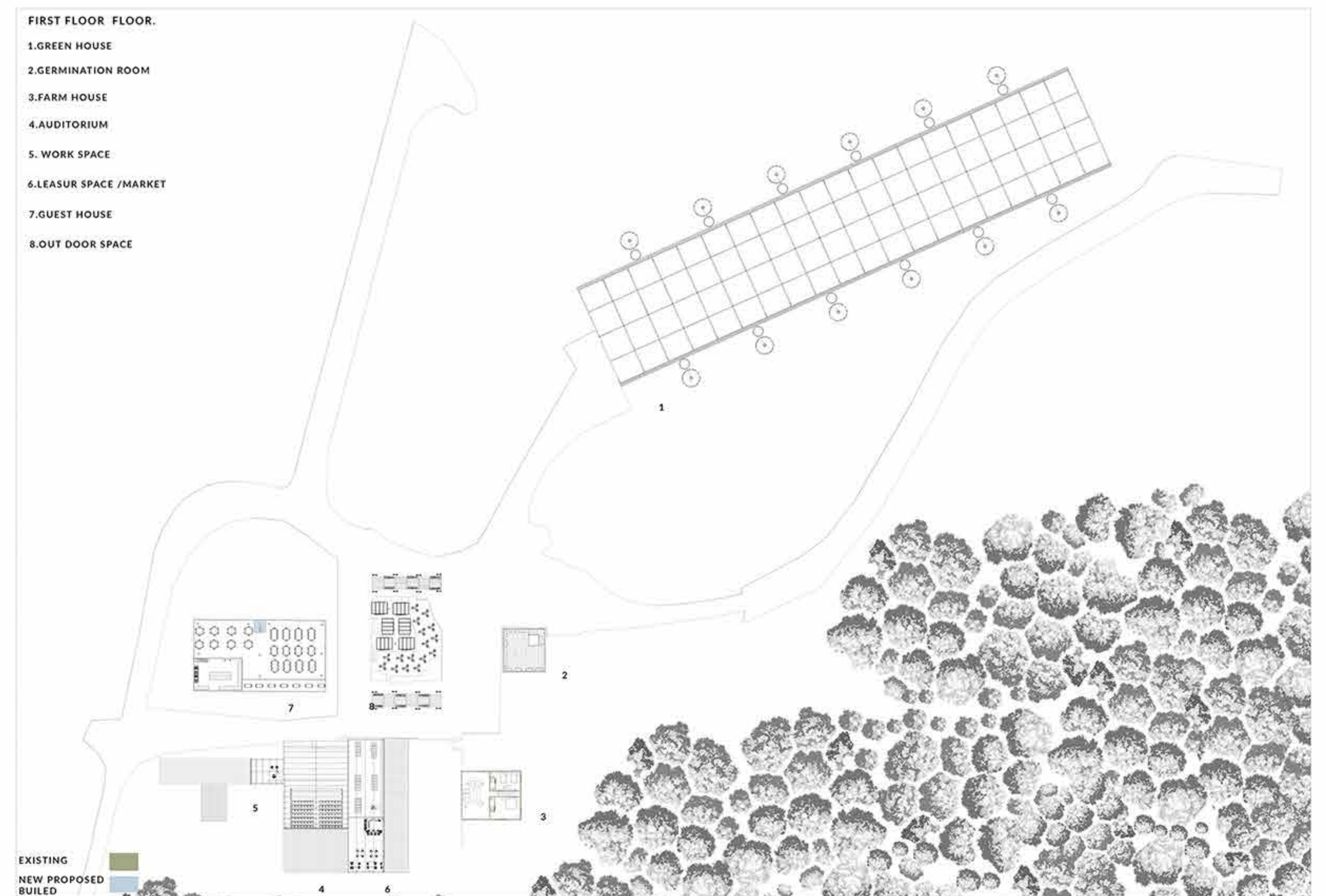
EXISTING  
NEW PROPOSED BUILT



## FIRST FLOOR FLOOR.

1. GREEN HOUSE
2. GERMINATION ROOM
3. FARM HOUSE
4. AUDITORIUM
5. WORK SPACE
6. LEASUR SPACE / MARKET
7. GUEST HOUSE
8. OUT DOOR SPACE

EXISTING  
NEW PROPOSED BUILT



The proposal is a rejuvenation of an existing farm. The site consists of a farmhouse and a chicken coop and barn-like spaces. Each one of the spaces is made of different materials including flint, brick, and concrete blocks. The proposal will convert the T-shaped barn, flint barn, modern farm, and outbuilding into one space but with three different functions: workspace, leisure / market space. The farmhouse will stay a farmhouse with a few alterations such as making more space as the space has the potential for more occupants and will purposely be made for more farmers that can stay there permanently. The existing residential house will be converted into an Airbnb guest house so it will need to be extended and with a communal space included. The industrial chicken shed will be converted into a large greenhouse into a plant nursery. The garage will be converted into a germination room for a controlled growth of each of the crops.

**KEY .**



**EXISTING**

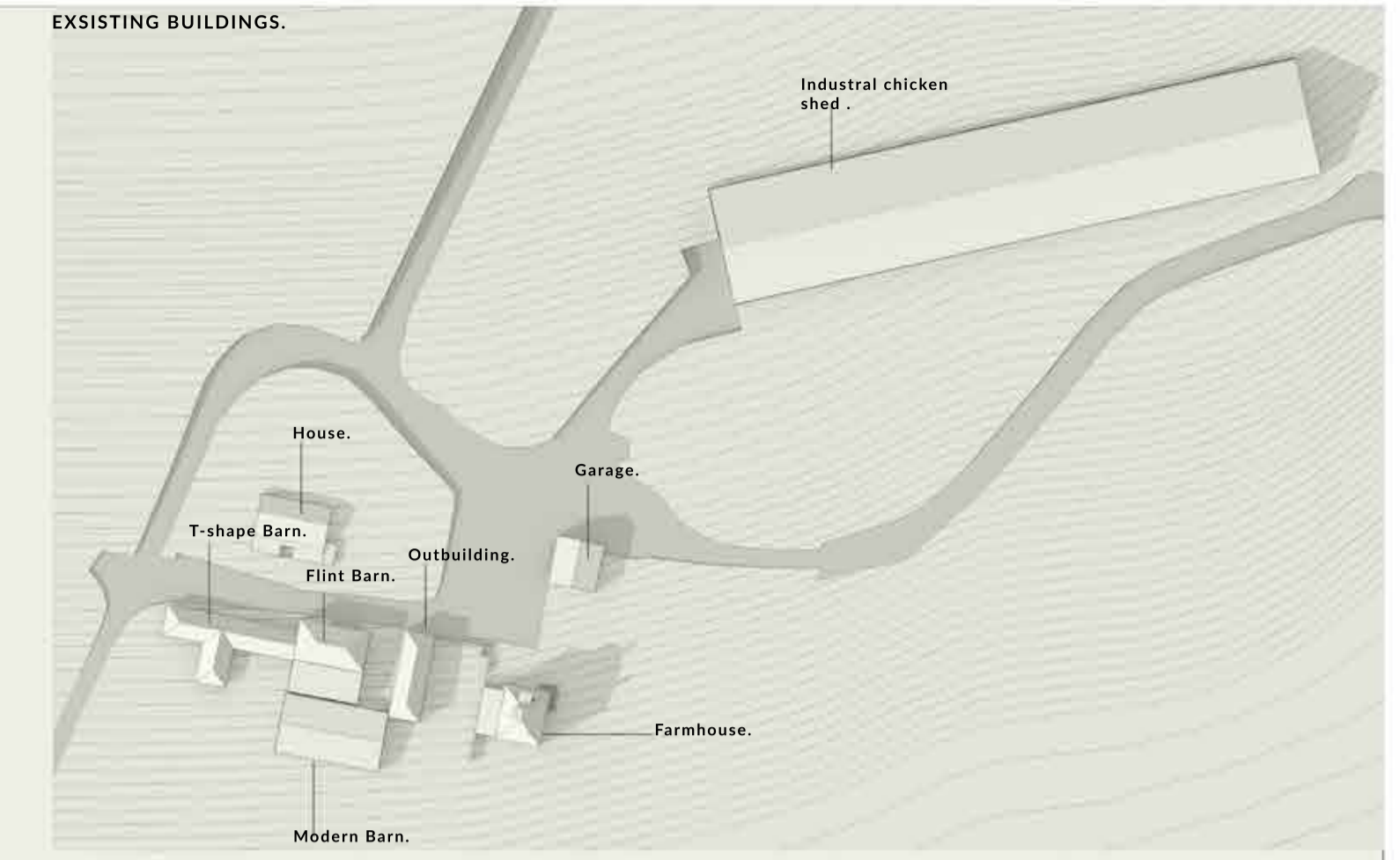


**NEW PROPOSED  
BUILD**

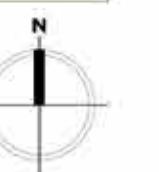
The key shows the old building as existing and then the new additions to the site. The buildings will be converted into different and new purpose. One of the main things that was taken into account was that special each building from the inside will be emptied out and on the exterior walls will be kept the same.

**DESIGN.**  
ITERATION 3  
PROPOSED LANDSCAPE PLAN

- 1. GREEN HOUSE
- 2. GERMINATION ROOM
- 3. FARM HOUSE
- 4. AUDITORIUM
- 5. WORK SPACE
- 6. LEASUR SPACE / MARKET
- 7. GUEST HOUSE
- 8. OUT DOOR SPACE

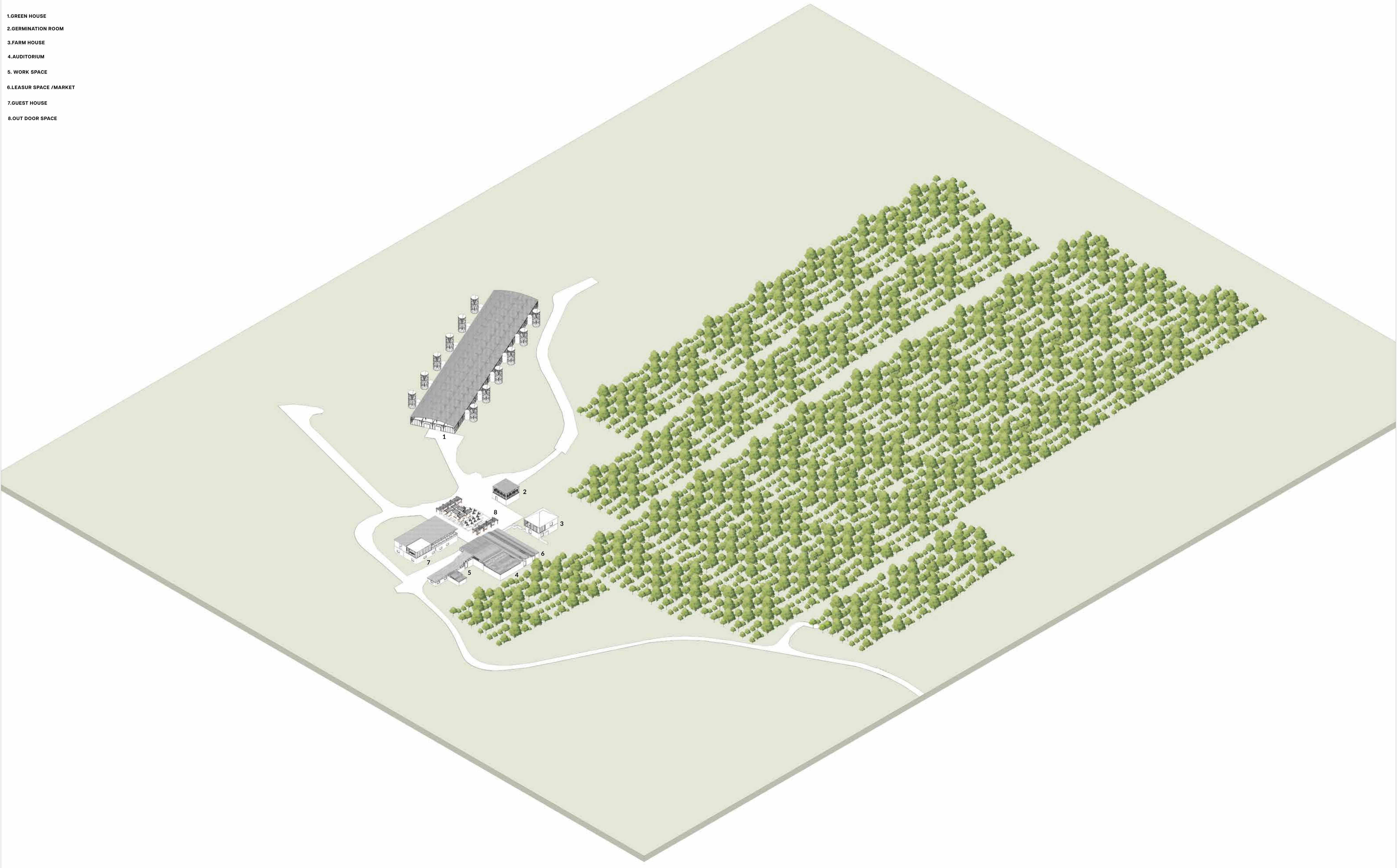


This is a plan of the whole landscape as proposed plus the new converted buildings .As it can be seen that the agroforest almost takes over most of the site. The main thing that changes and can be seen in this drawing are the existing roofs as they are old and need renovating specially in the existing barns .



PROPOSED LANDSCAPE 3D

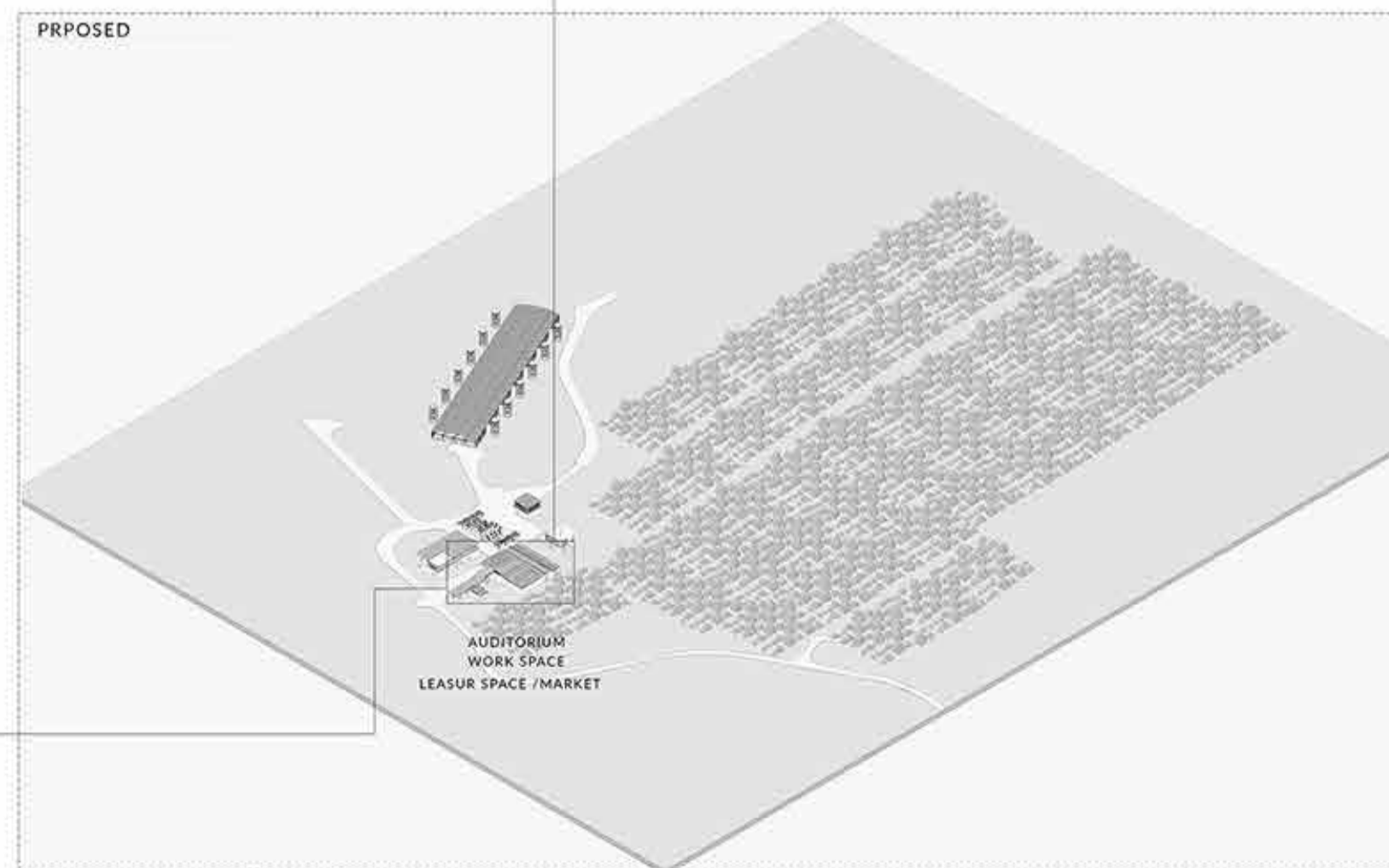
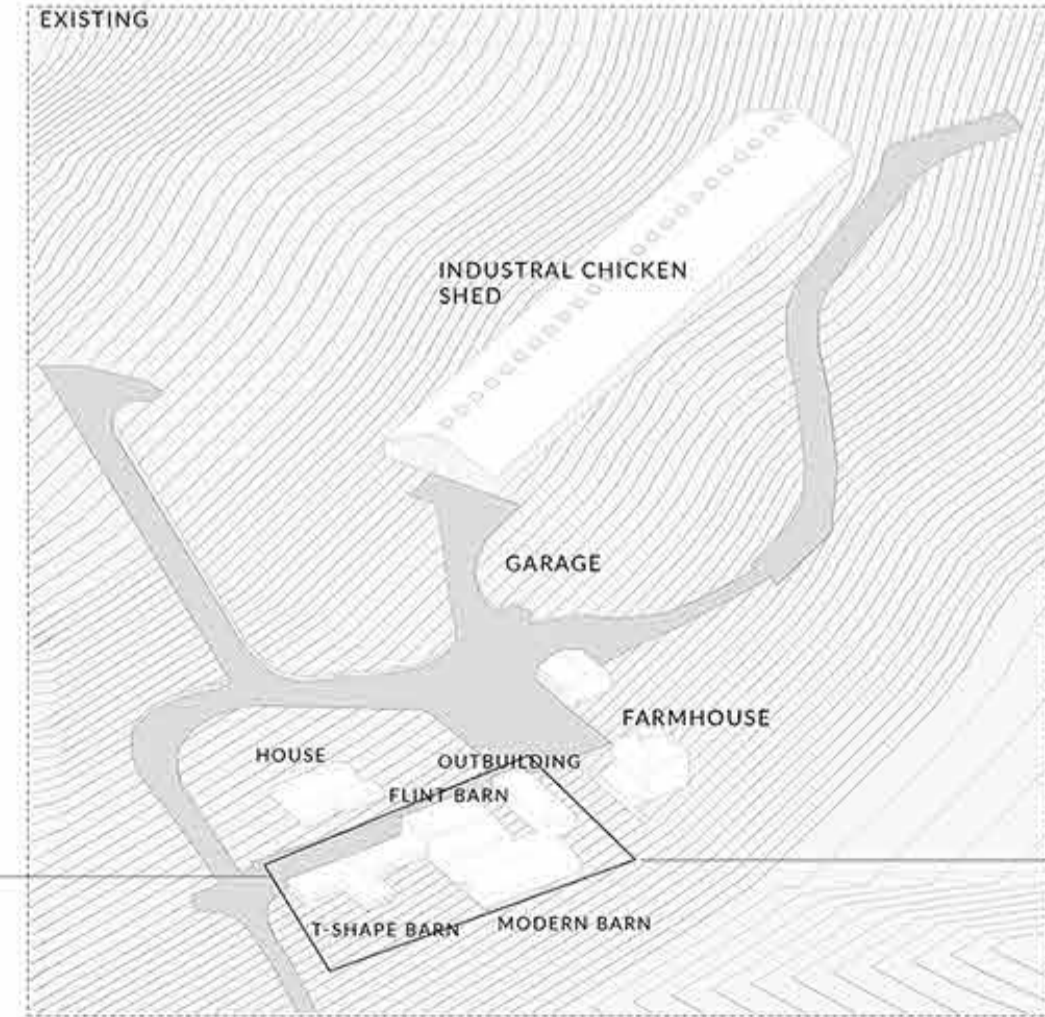
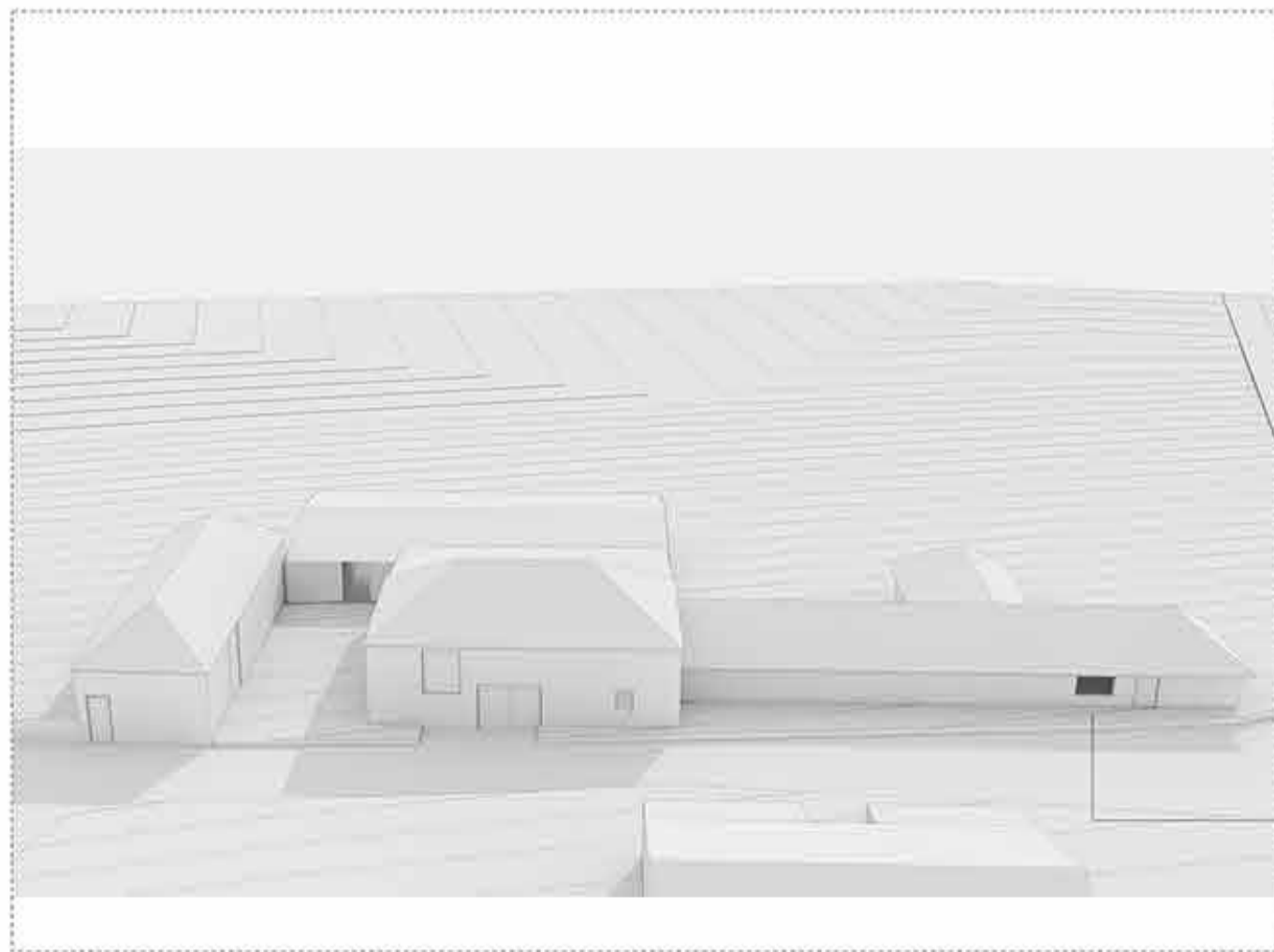
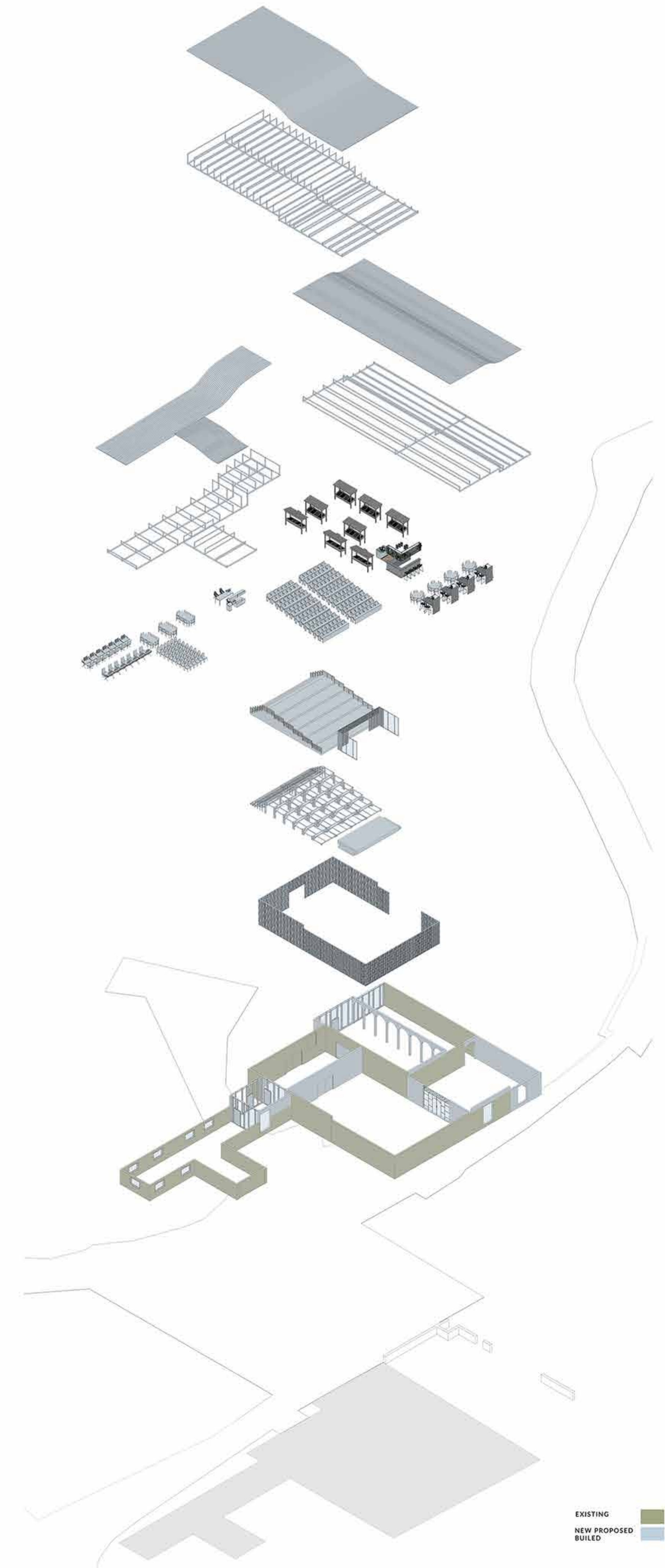
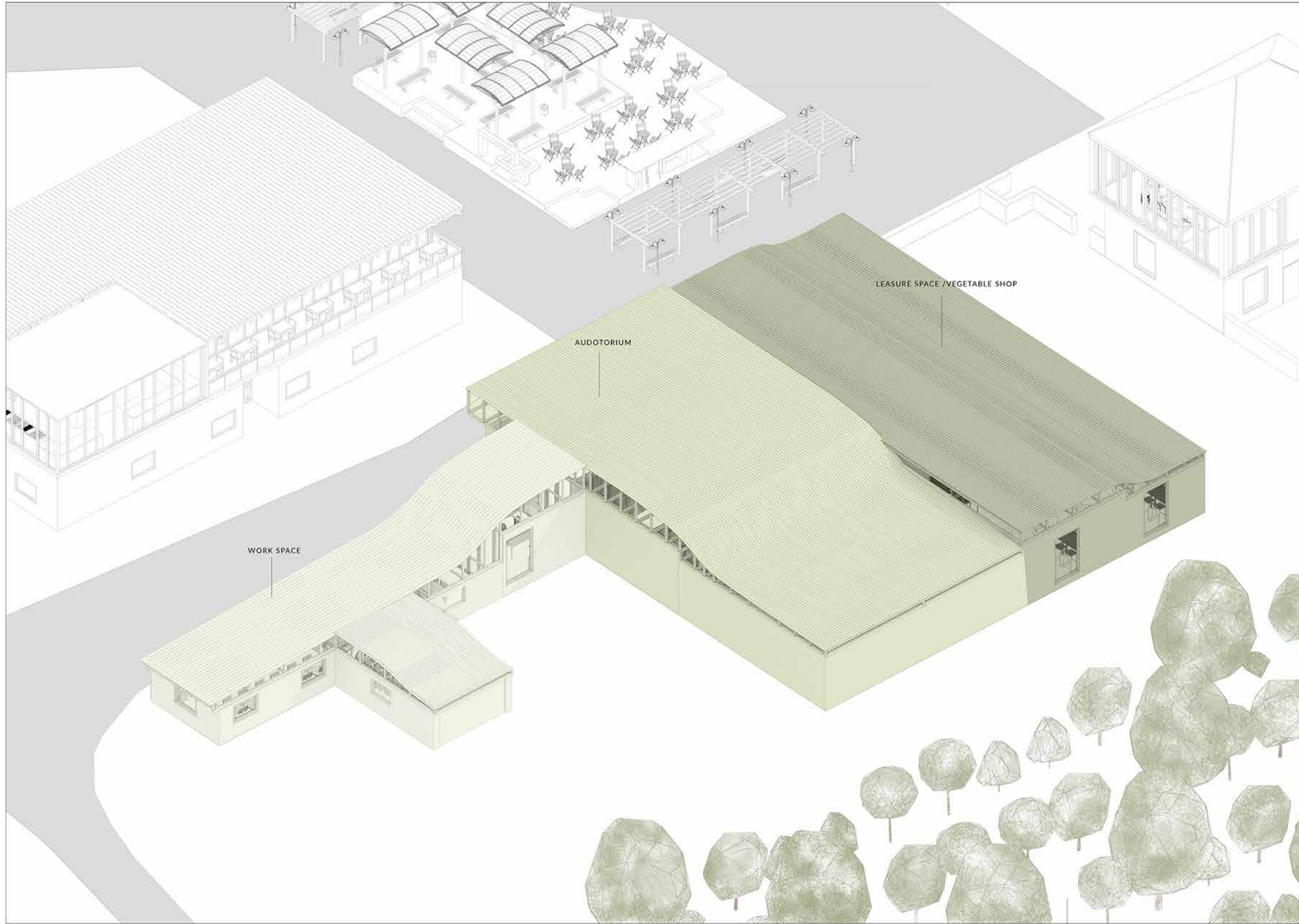
- 1.GREEN HOUSE
- 2.GERMINATION ROOM
- 3.FARM HOUSE
- 4.AUDITORIUM
- 5. WORK SPACE
- 6.LEASUR SPACE /MARKET
- 7.GUEST HOUSE
- 8.OUT DOOR SPACE



**WORK SPACE /AUDITORIUM  
/LEISURE AND MARKET SPACE .**

# DESIGN.

ITERATION 3 WORK SPACE 3D



The four existing barn buildings will be converted into one large building that will have different purposes this leisure/ refreshment,shop, auditorium and finally a reserch work space .This space will be the most active space in the whole project and will be ocupide by a minium of 100 pepole.The existng roots will need to be replaced as they are too old warn structully to cover the building so the all will need to be replaced.

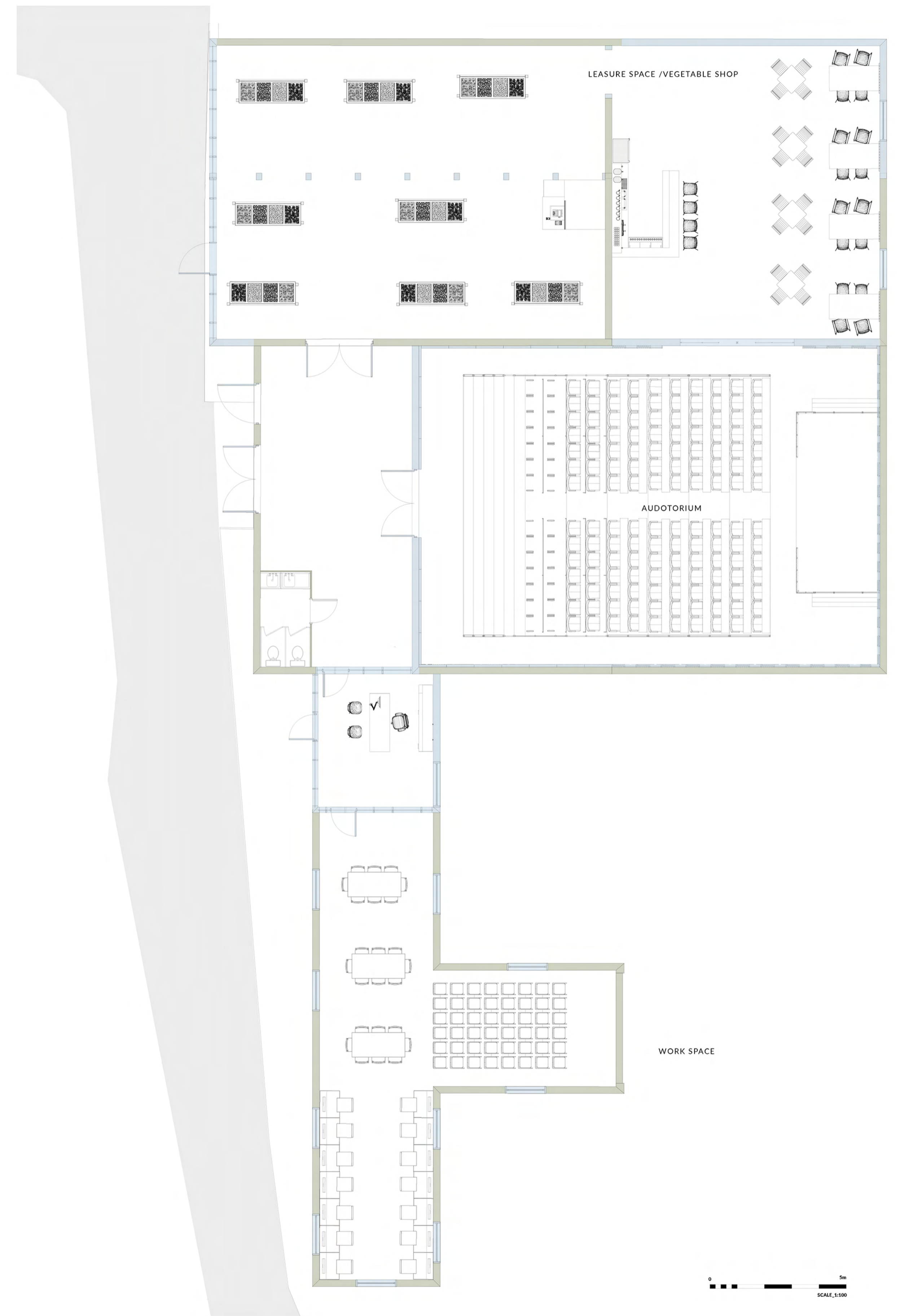
EXISTING  
NEW PROPOSED  
BUILT

**DESIGN.**  
ITERATION 3 WORK SPACE -PLAN

EXISTING PLANS OF ALL THE BARNES

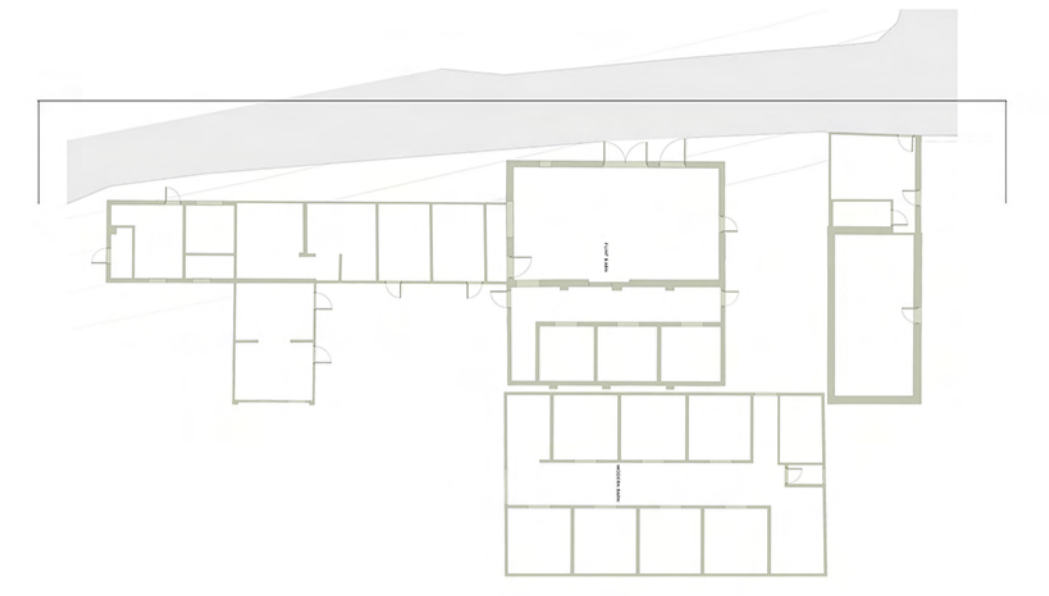


PROPOSED PLANS OF ALL THE SPACES

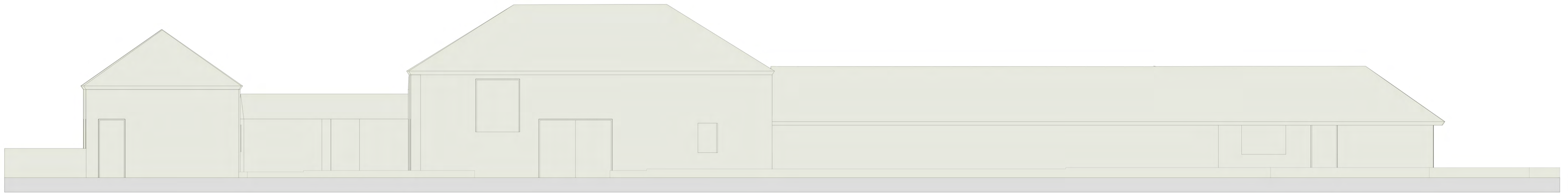


As it can be seen the work office like spaces have been replaced instead of the t-shaped barn, the flint barn has been converted to an auditorium, and finally the out building will be extended into a vegetable shop and a leisure space.

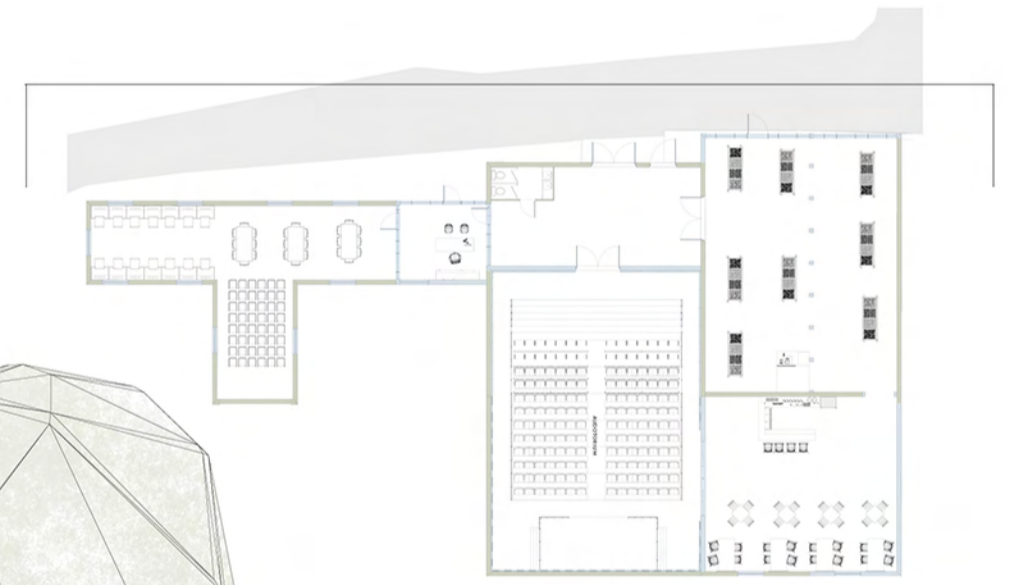
EXISTING  
NEW PROPOSED  
BUILT



EXISTING ELEVATION OF ALL THE BARNES



EXISTING ELEVATION OF ALL THE BARNES

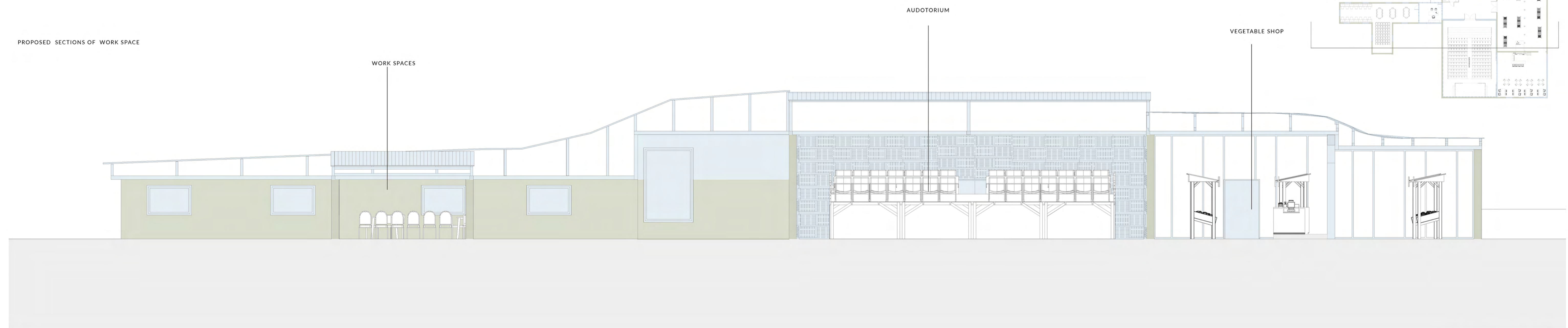
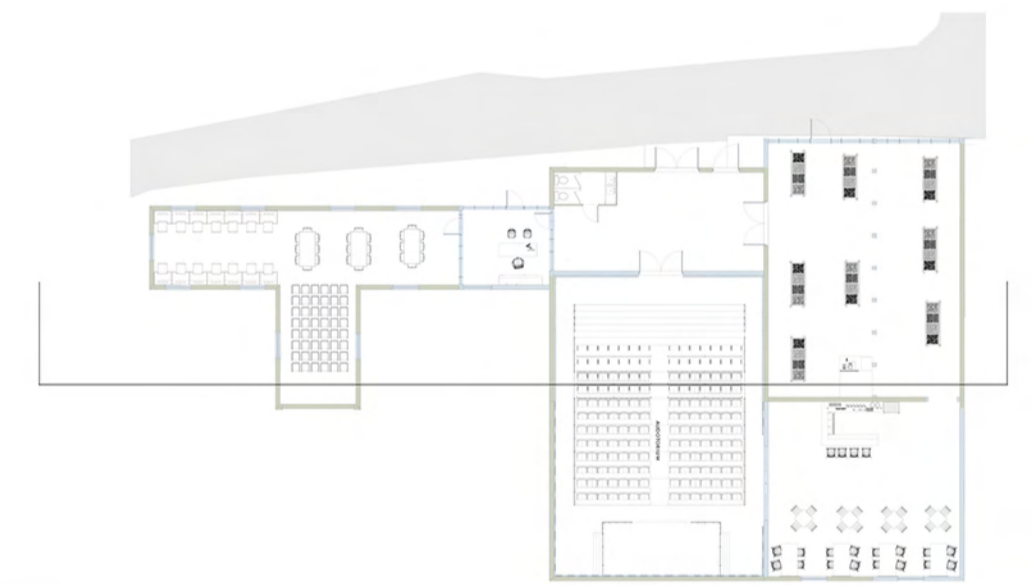
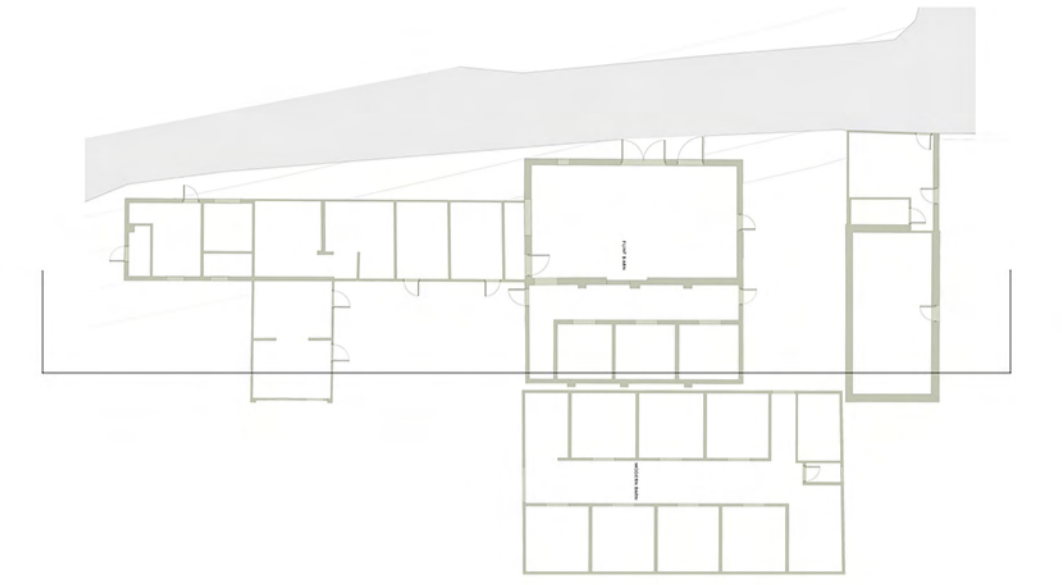


As it can be seen the work office like spaces have been replaced insted of the t-shaped barn ,the flint barn has been converted to a audotorium, and fanlly the out building will be extened into a vegetable shop and a leasure space.

EXISTING  
NEW PROPOSED  
BUILDED



**DESIGN.**  
ITERATION 3 WORK SPACE -SECTION

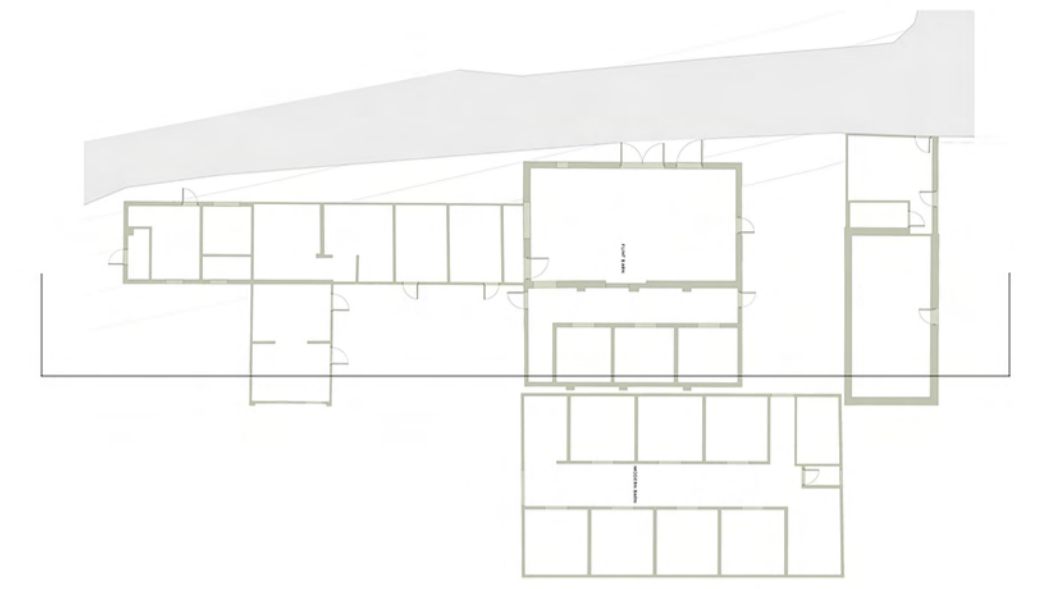


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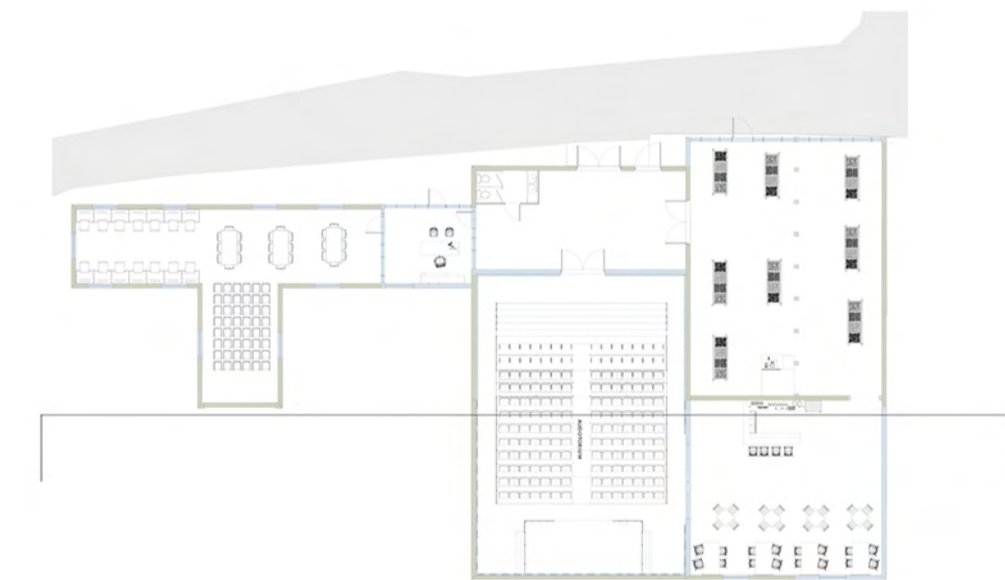
EXISTING  
NEW PROPOSED  
BUILDED

**DESIGN.**  
ITERATION 3 WORK SPACE -SECTION

EXISTING SECTIONS OF ALL THE BARNES



PROPOSED SECTIONS OF WORK SPACE

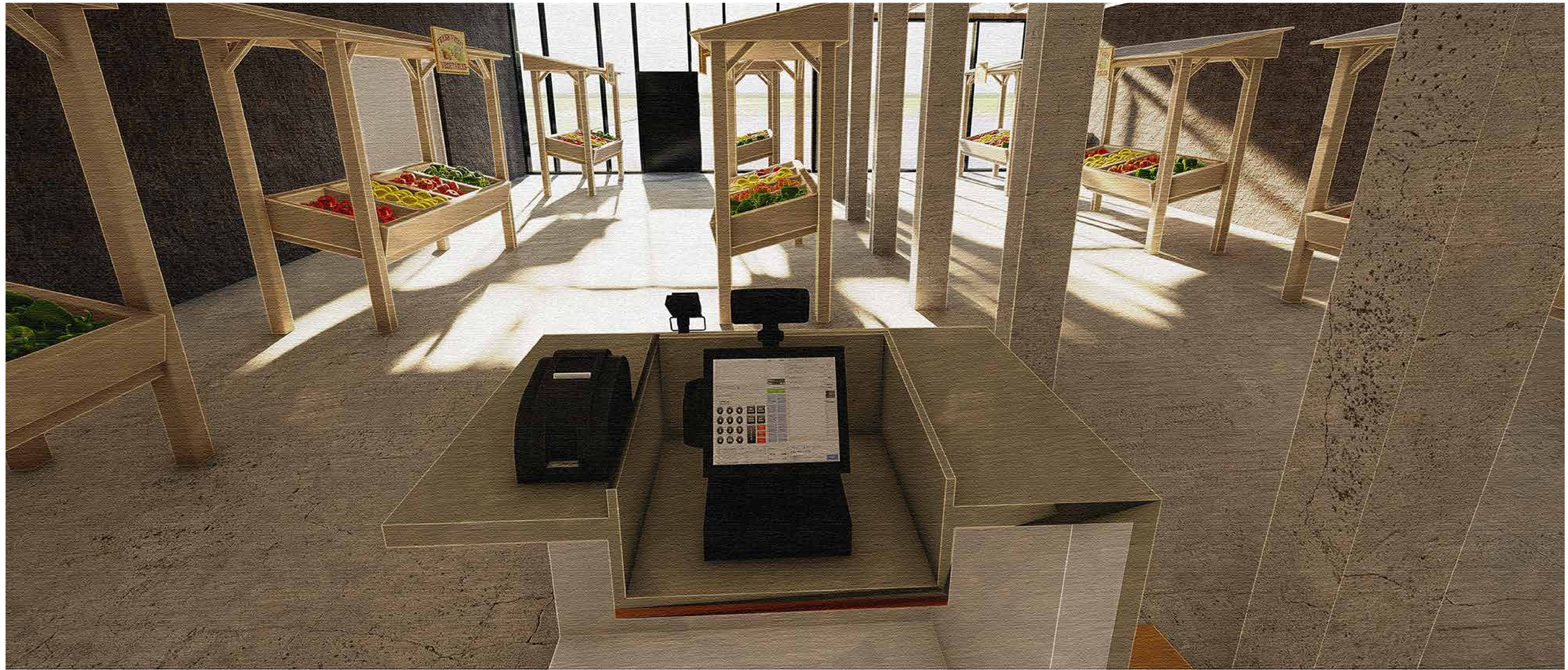


As it can be seen the work office like spaces have been replaced insted of the t-shaped barn ,the flint barn has been converted to a audotorium, and fanfly the out building will be extened into a vegetable shop and a leasur space.

EXISTING  
NEW PROPOSED  
BUILDED







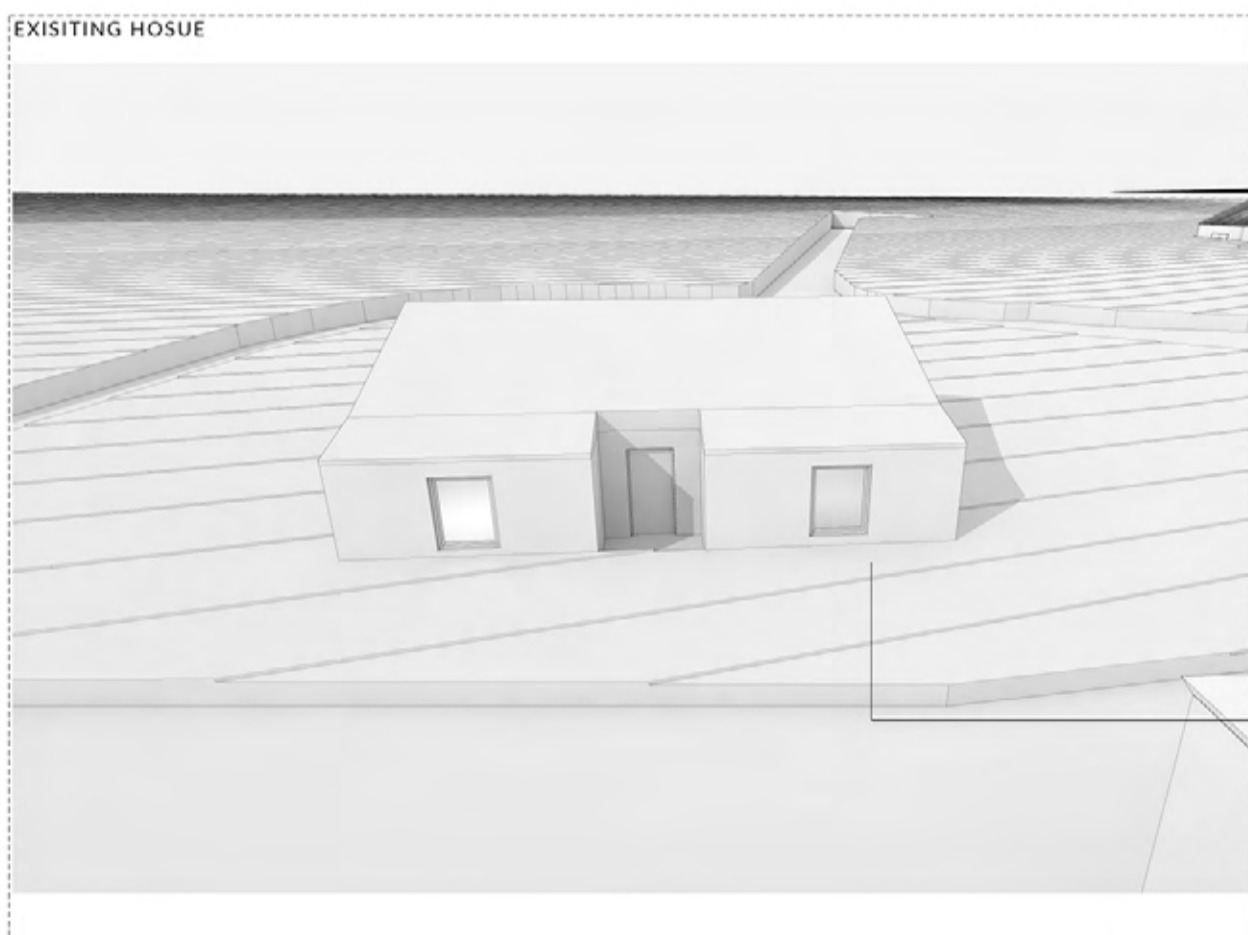
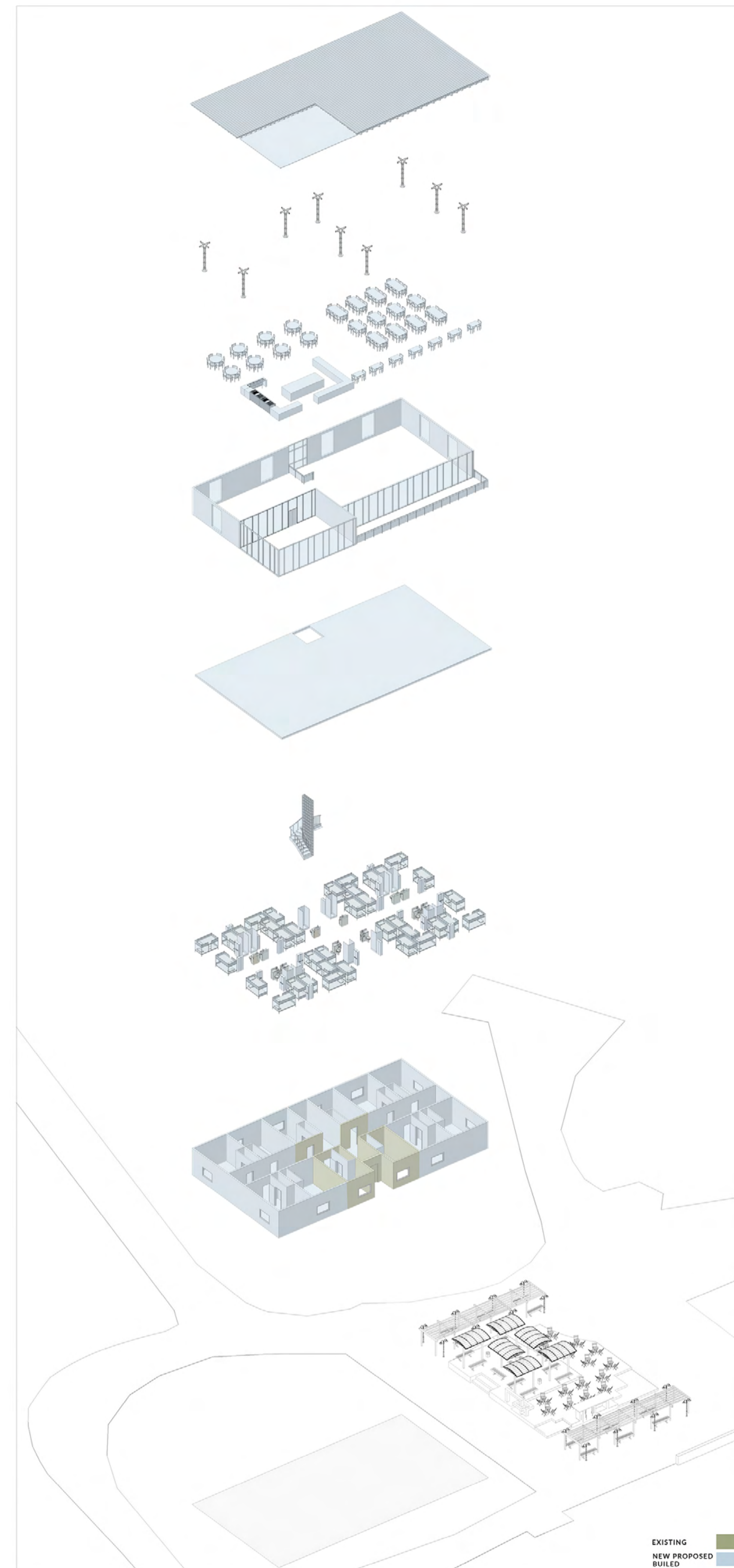
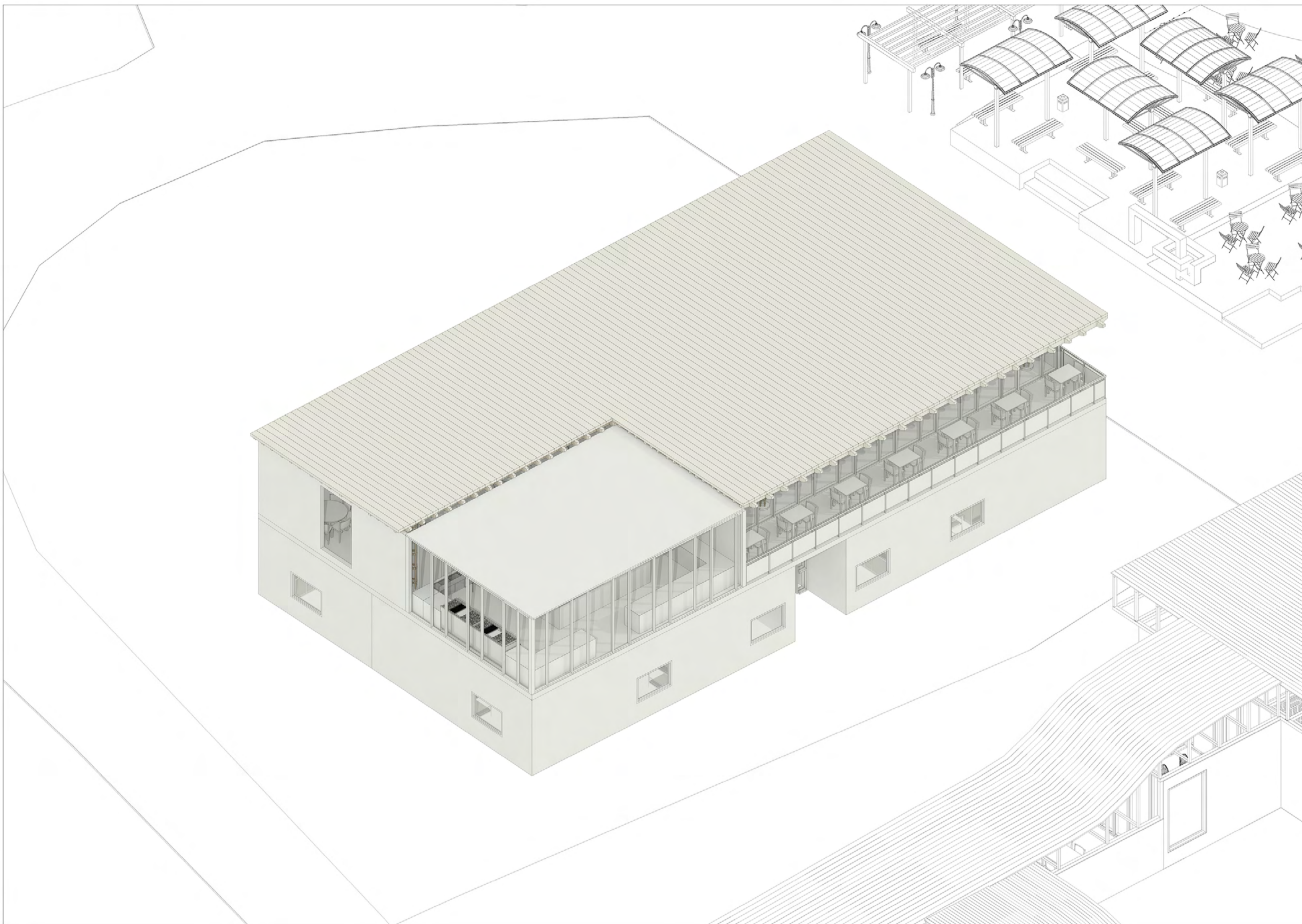




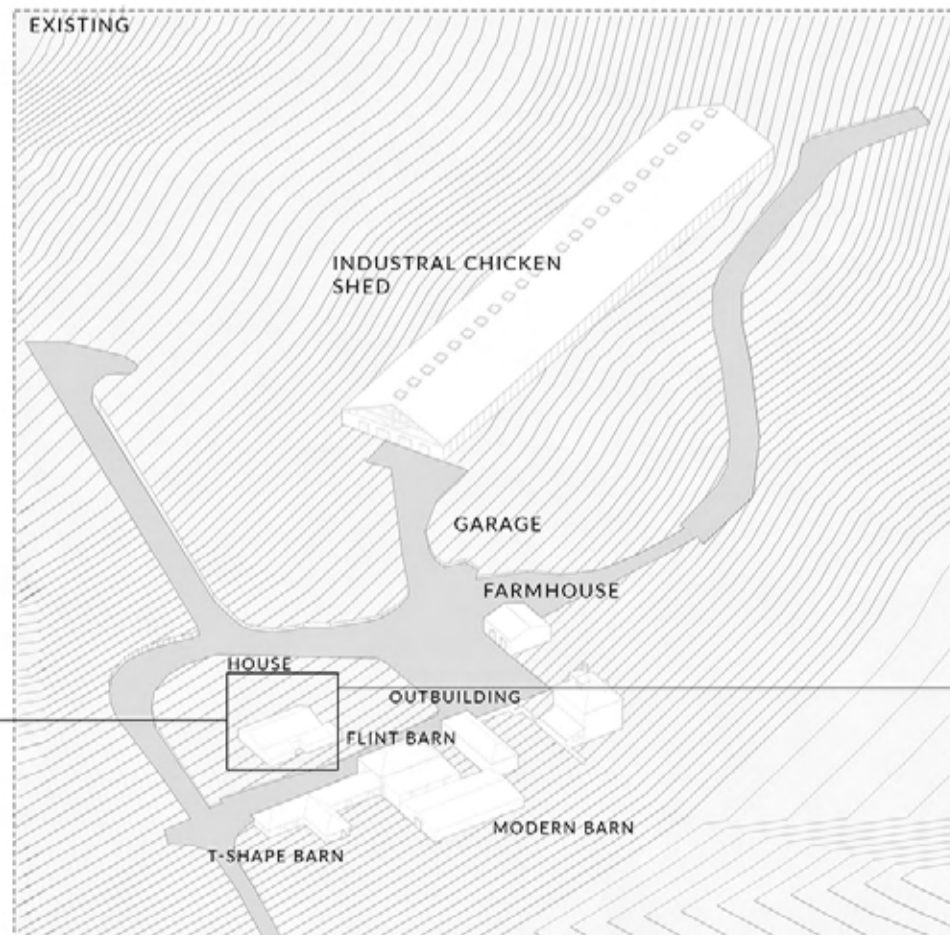
**GUEST HOUSE.**

# DESIGN.

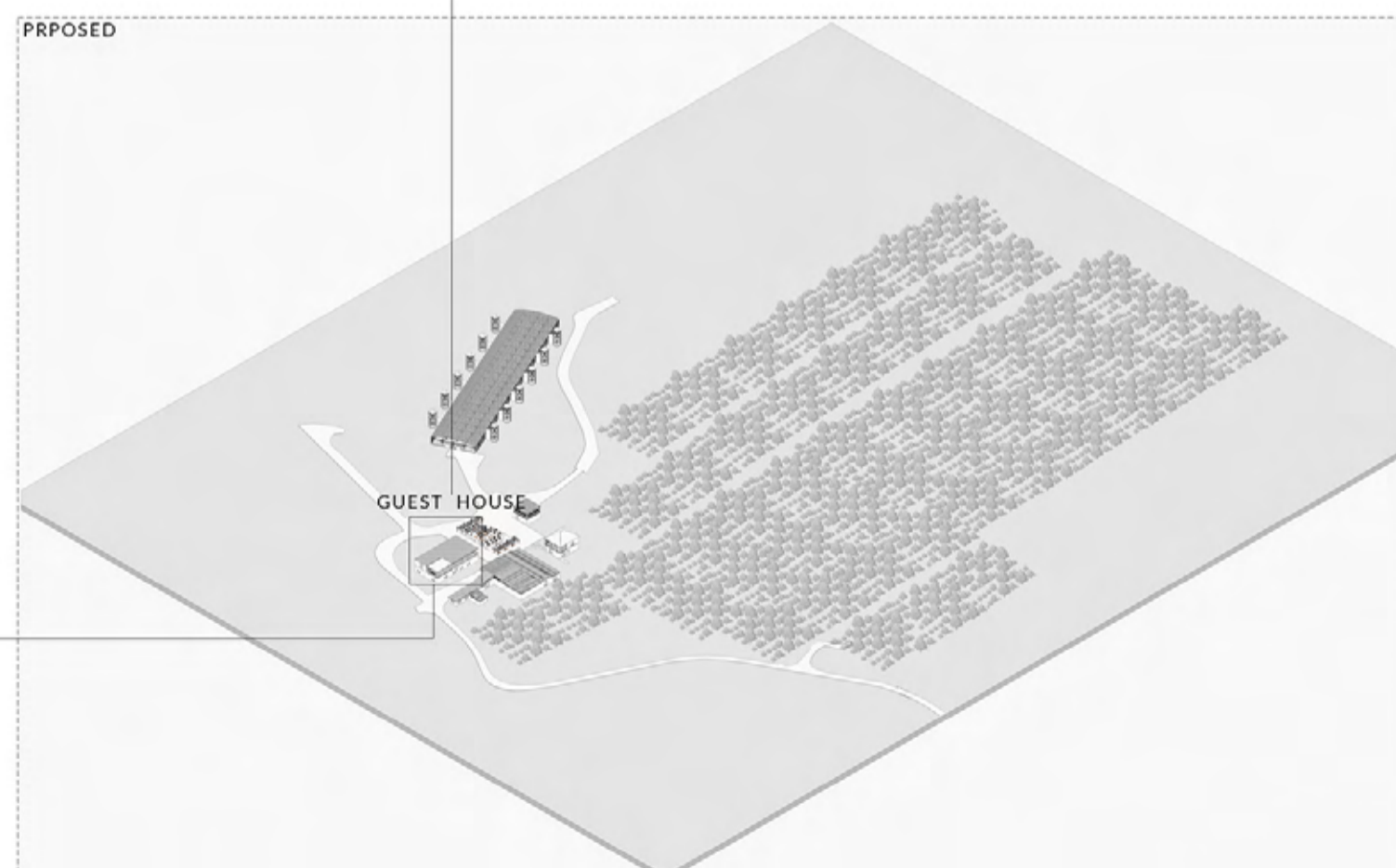
ITERATION 3 GUEST HOUSE 3D



**EXISTING HOUSE**



**EXISTING**



**PROPOSED**

The existing house will be converted into a guest house/airbnb. This will ensure that when there are farm conventions that the occupants can stay there for a long term.

Airbnbs have become more important in architectural design for numerous reasons:

**Adaptive reuse:** Many Airbnb homes are housed in reused or restored existing structures. This tendency has prompted architects to investigate adaptive reuse options for giving existing structures new life while conserving their historical and cultural significance. It promotes innovative design solutions that preserve existing architecture while addressing the demands of modern travellers.

**User experience:** Creating Airbnb lodgings necessitates careful consideration of the user experience. Architects are responsible for designing spaces that provide comfort, practicality, and beauty to improve the entire visitor experience. This emphasis on user-centric design has led architects to prioritise adaptable layouts, effective use of space, and meticulous attention to detail.

**Sustainability:** With growing awareness of environmental issues, sustainability has become a fundamental consideration in architecture. Airbnb properties, whether new constructions or renovations, often incorporate sustainable design practices. This includes energy-efficient systems, use of eco-friendly materials, renewable energy sources, and strategies for water conservation. By promoting sustainable architecture, Airbnb contributes to a more environmentally conscious built environment.

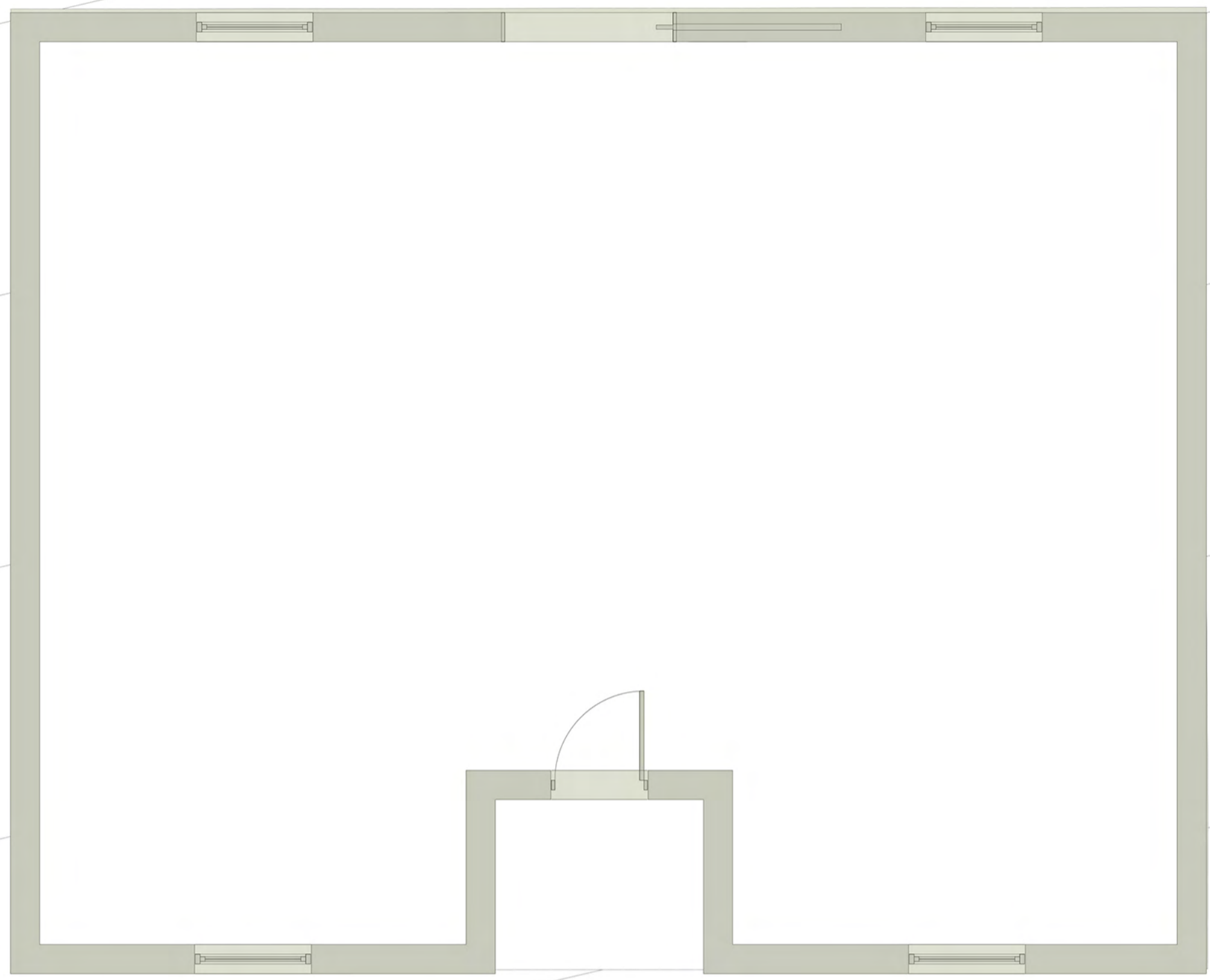
**Social interaction and shared spaces:** Unlike traditional hotels, many Airbnb accommodations emphasize shared spaces that foster social interaction among guests. This has influenced architects to design communal areas such as lounges, kitchens, and outdoor spaces that encourage connection and community building. The architectural design supports the social aspect of the Airbnb experience, facilitating interactions and creating memorable moments for guests.

Overall, Airbnb's impact on architecture designs lies in its demand for unique, personalized, and culturally immersive experiences. Architects are challenged to create spaces that not only provide comfort and functionality but also respond to the evolving needs and desires of modern travelers.

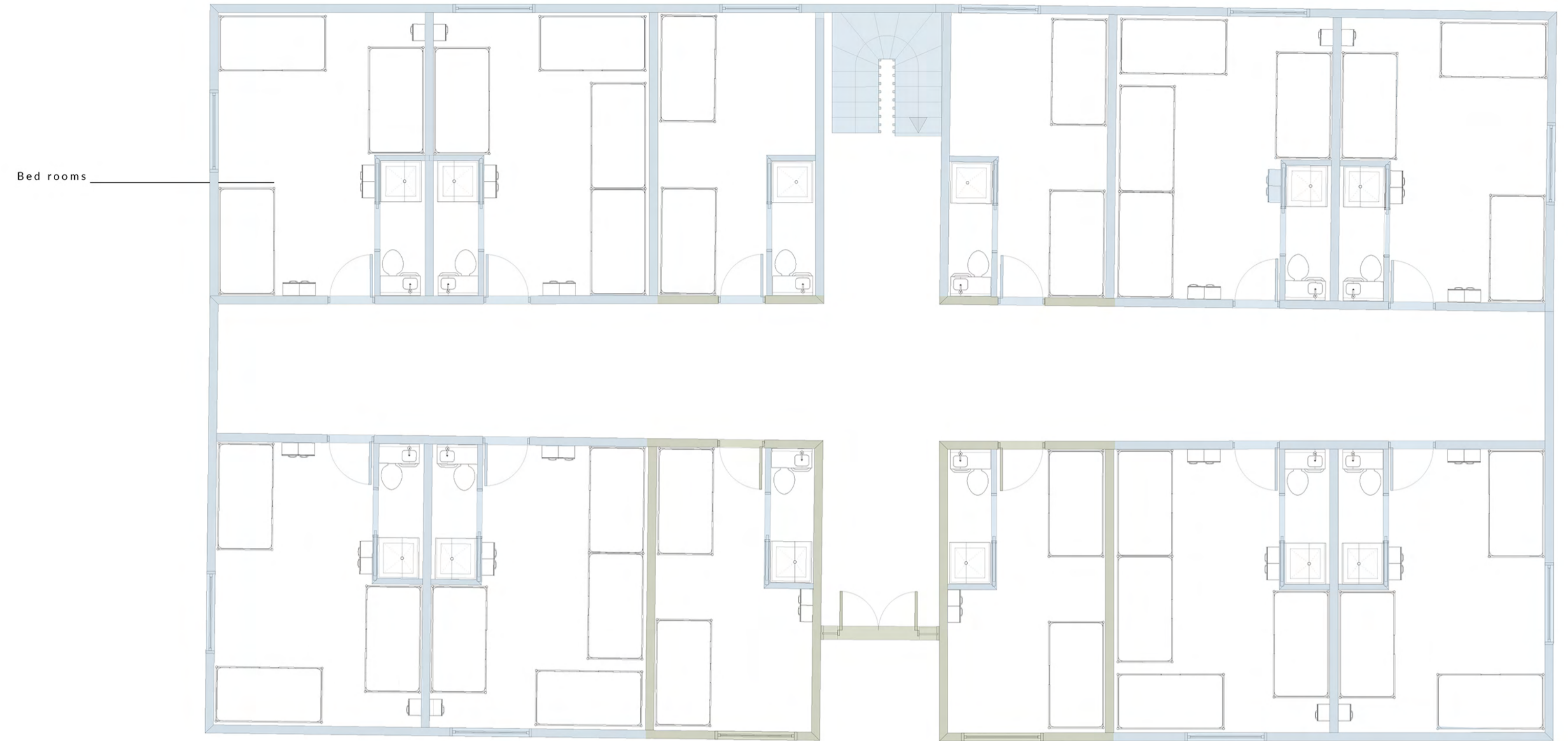
EXISTING  
NEW PROPOSED  
BUILT



**DESIGN.**  
ITERATION 3 GUEST HOUSE -PLAN

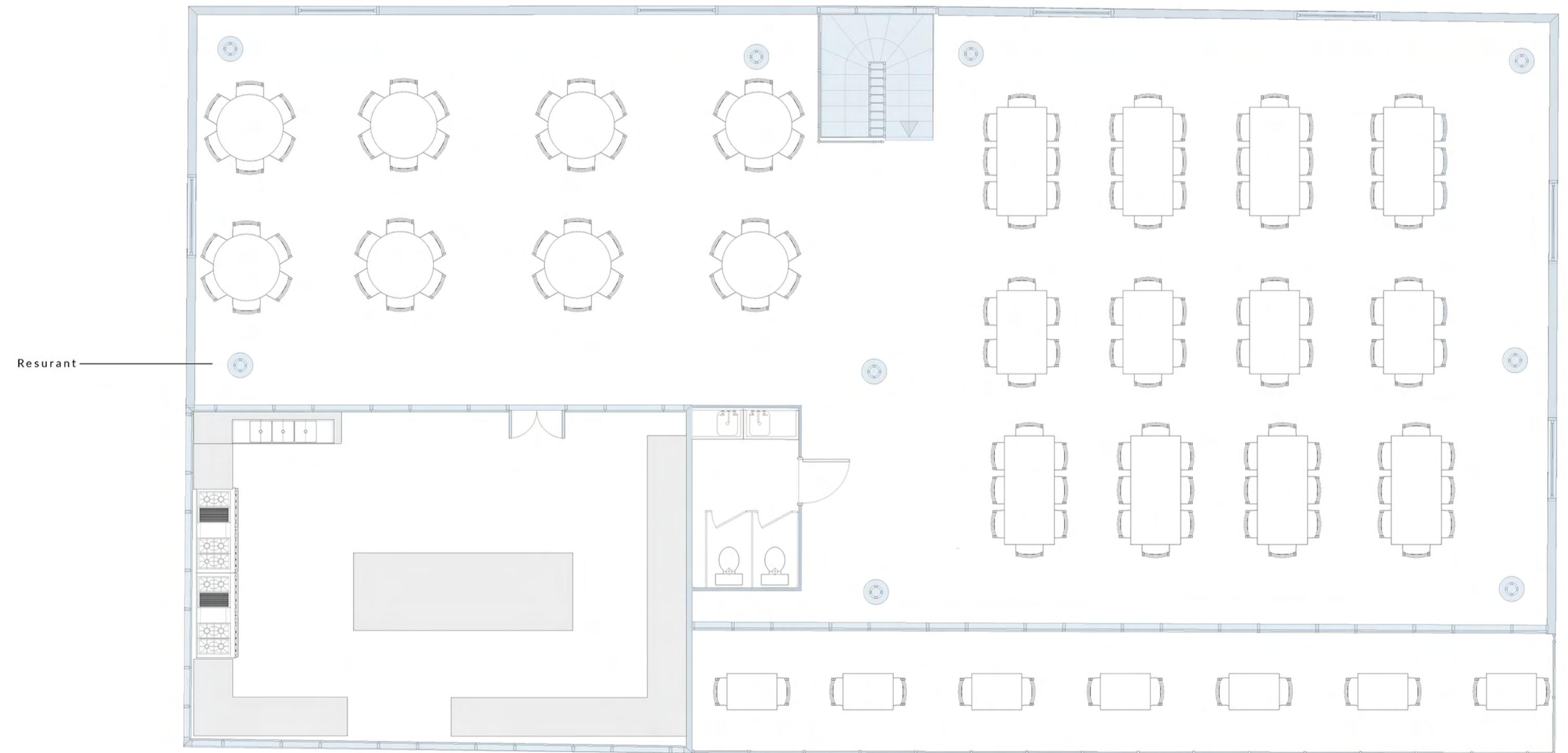


EXISTING HOUSE GROUND FLOOR PLAN



Bed rooms

PROPOSED GUEST HOUSE GROUND FLOOR PLAN



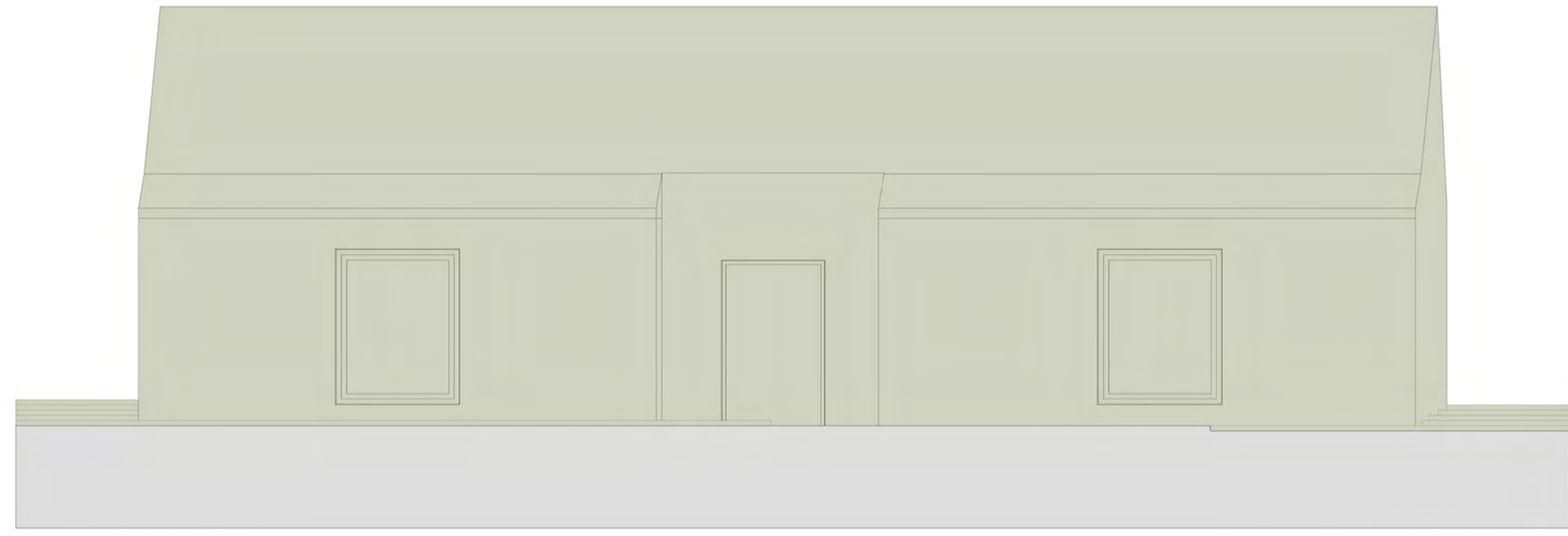
Resurant

PROPOSED GUEST HOUSE FIRST FLOOR PLAN

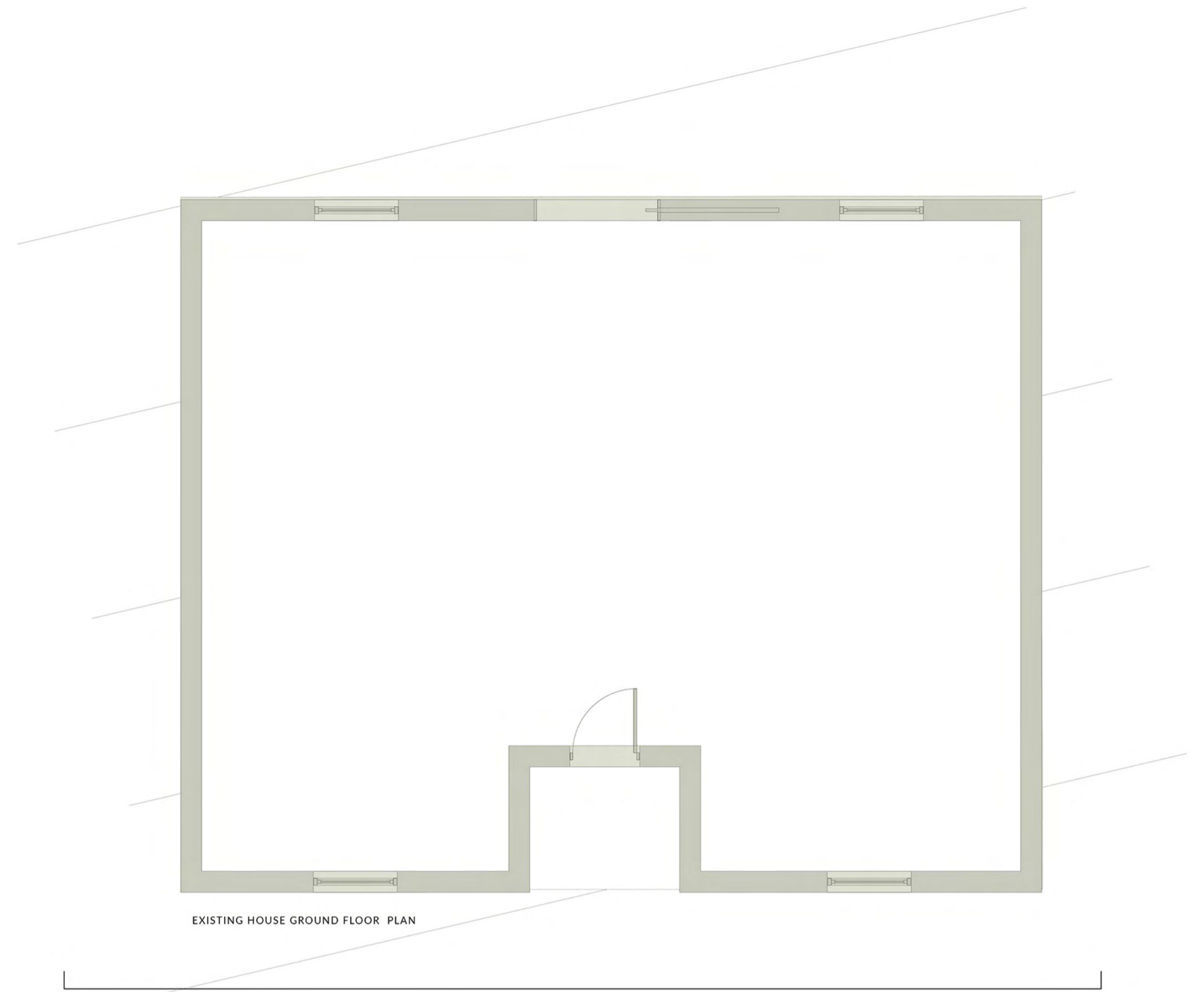


As it can be seen in this plan that the hous got significantly extended in size as this will hold much more people and they can stay in that facility and on site for a much longer .

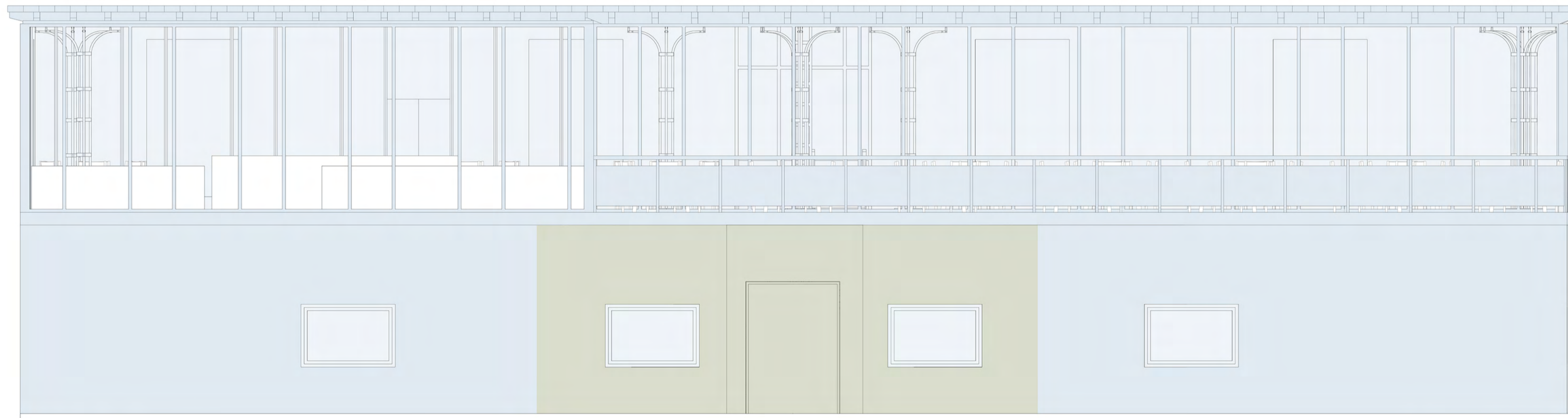
**DESIGN.**  
ITERATION 3 GUEST HOUSE E -ELEVATION



EXISTING HOUSE ELEVATION



EXISTING HOUSE GROUND FLOOR PLAN



PROPOSED GUEST HOUSE ELEVATION



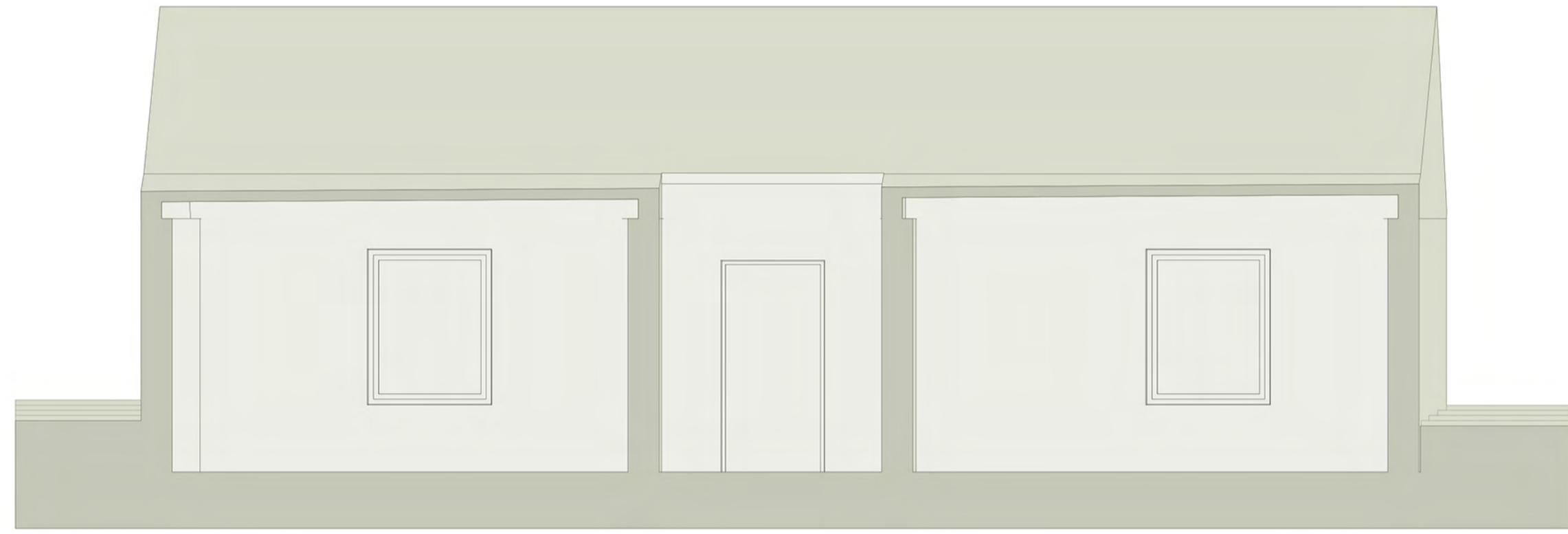
PROPOSED HOUSE GROUND FLOOR PLAN

As it can be seen in this elevation that the house got significantly extended in size, the green being the existing walls and the blue being the proposed, the facade is being kept the same.

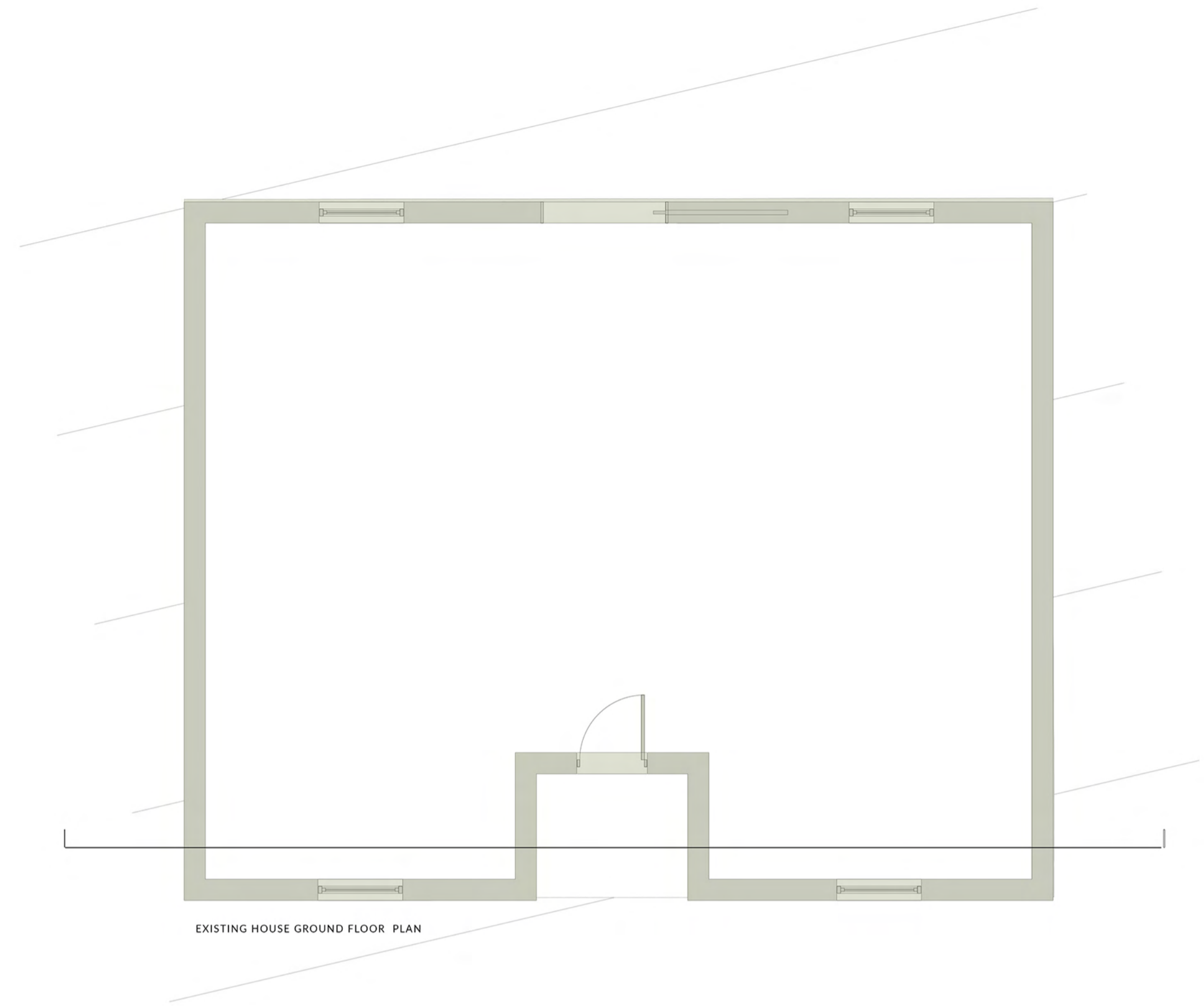
EXISTING  
NEW PROPOSED  
BUILT



**DESIGN.**  
ITERATION 3 GUEST HOUSE - SECTION



EXISTING HOUSE SECTION



EXISTING HOUSE GROUND FLOOR PLAN



PROPOSED GUEST HOUSE SECTION .

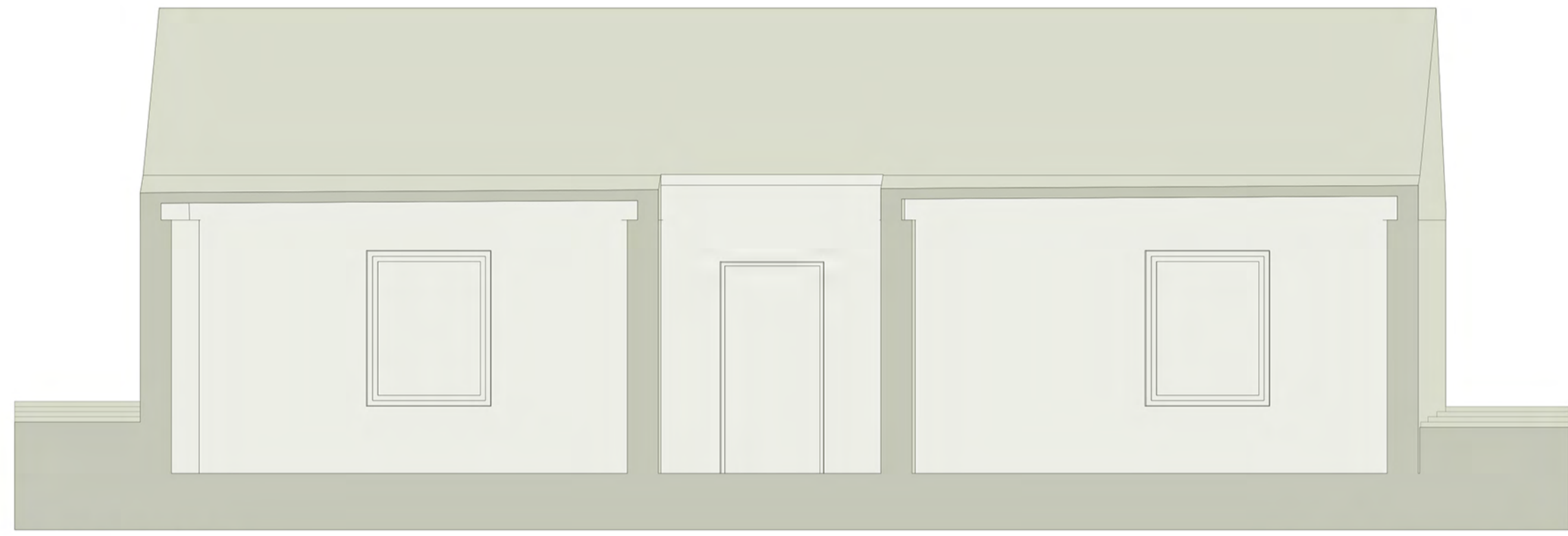


PROPOSED HOUSE GROUND FLOOR PLAN

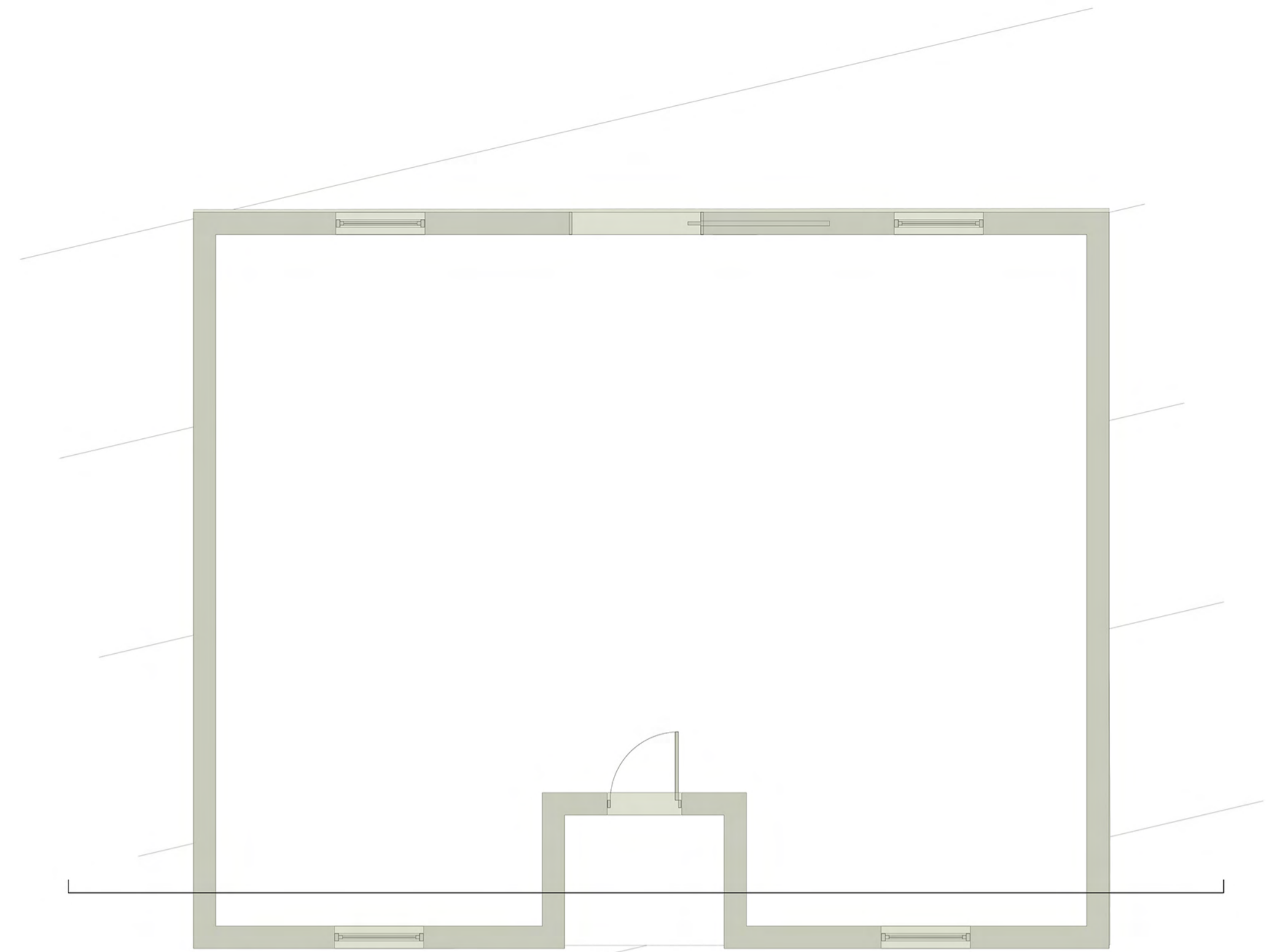
As it can be seen in this section that the house got significantly extended in size. The green being the existing walls and the blue being the proposed.



**DESIGN.**  
ITERATION 3 GUEST HOUSE - SECTION



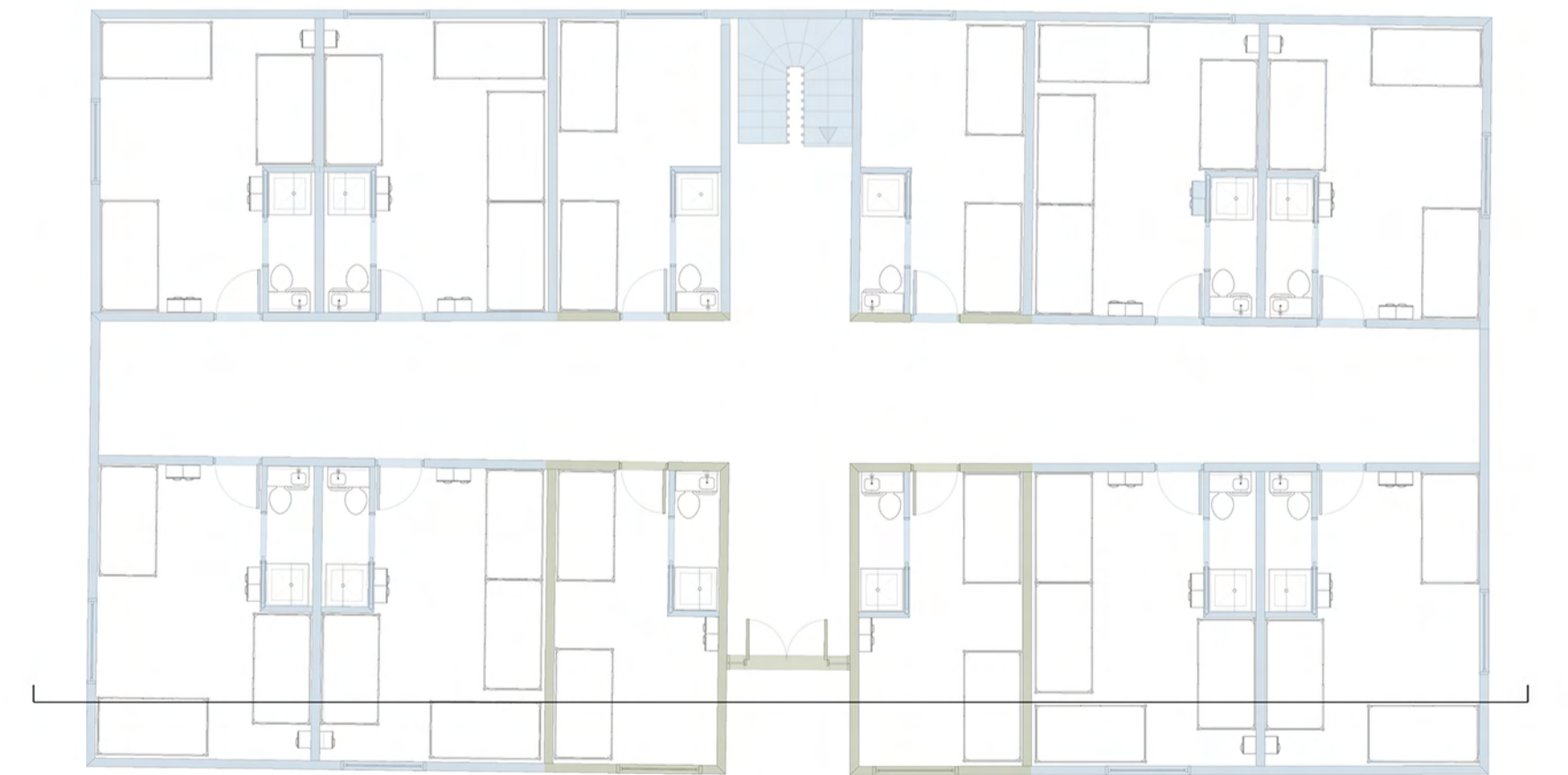
EXISTING HOUSE SECTION



EXISTING HOUSE GROUND FLOOR PLAN



PROPOSED GUEST HOUSE SECTION .



PROPOSED HOUSE GROUND FLOOR PLAN

As it can be seen in this section that the house got significantly extended in size. The green being the existing walls and the blue being the proposed.

EXISTING  
NEW PROPOSED  
BUILDED





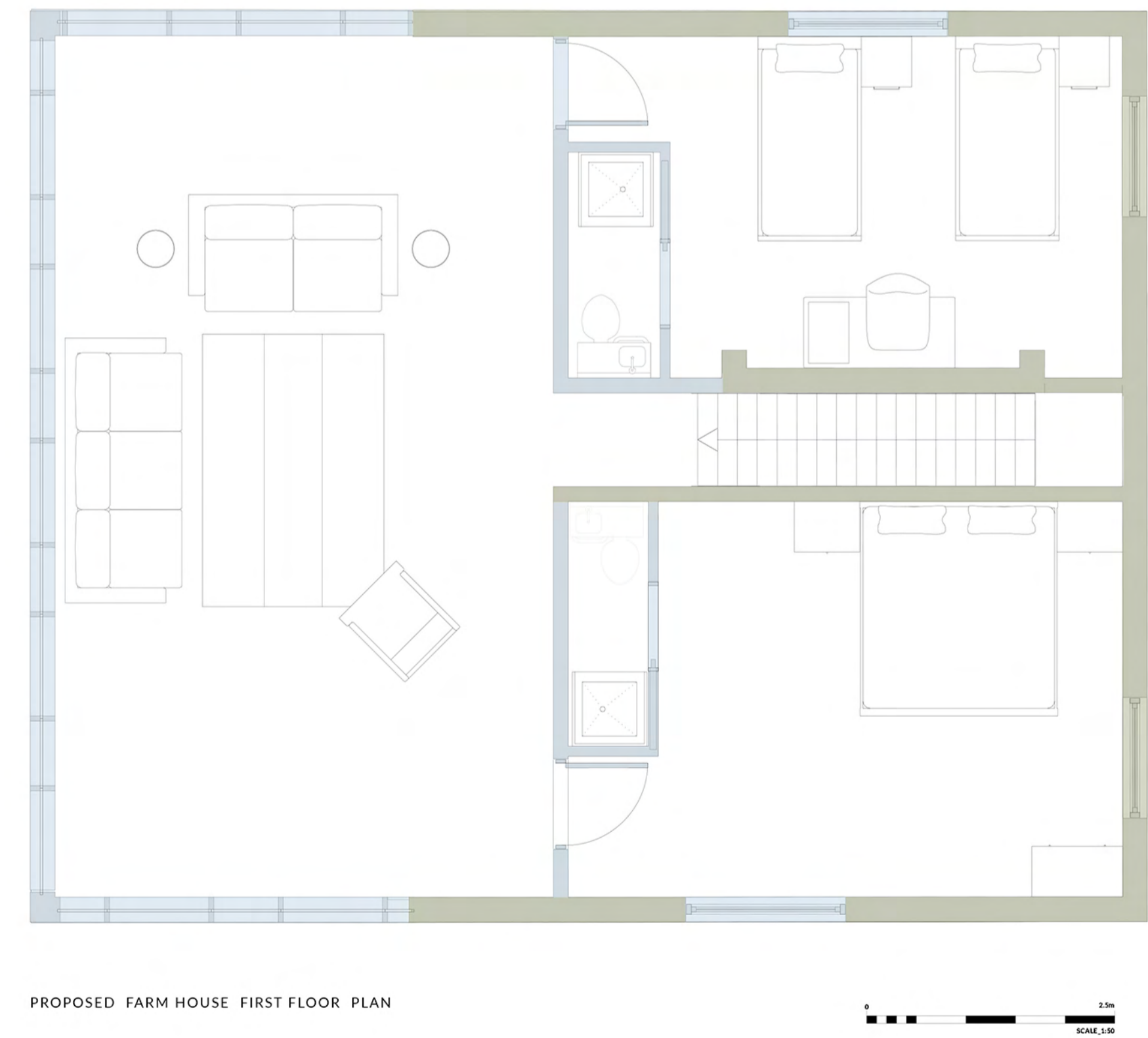
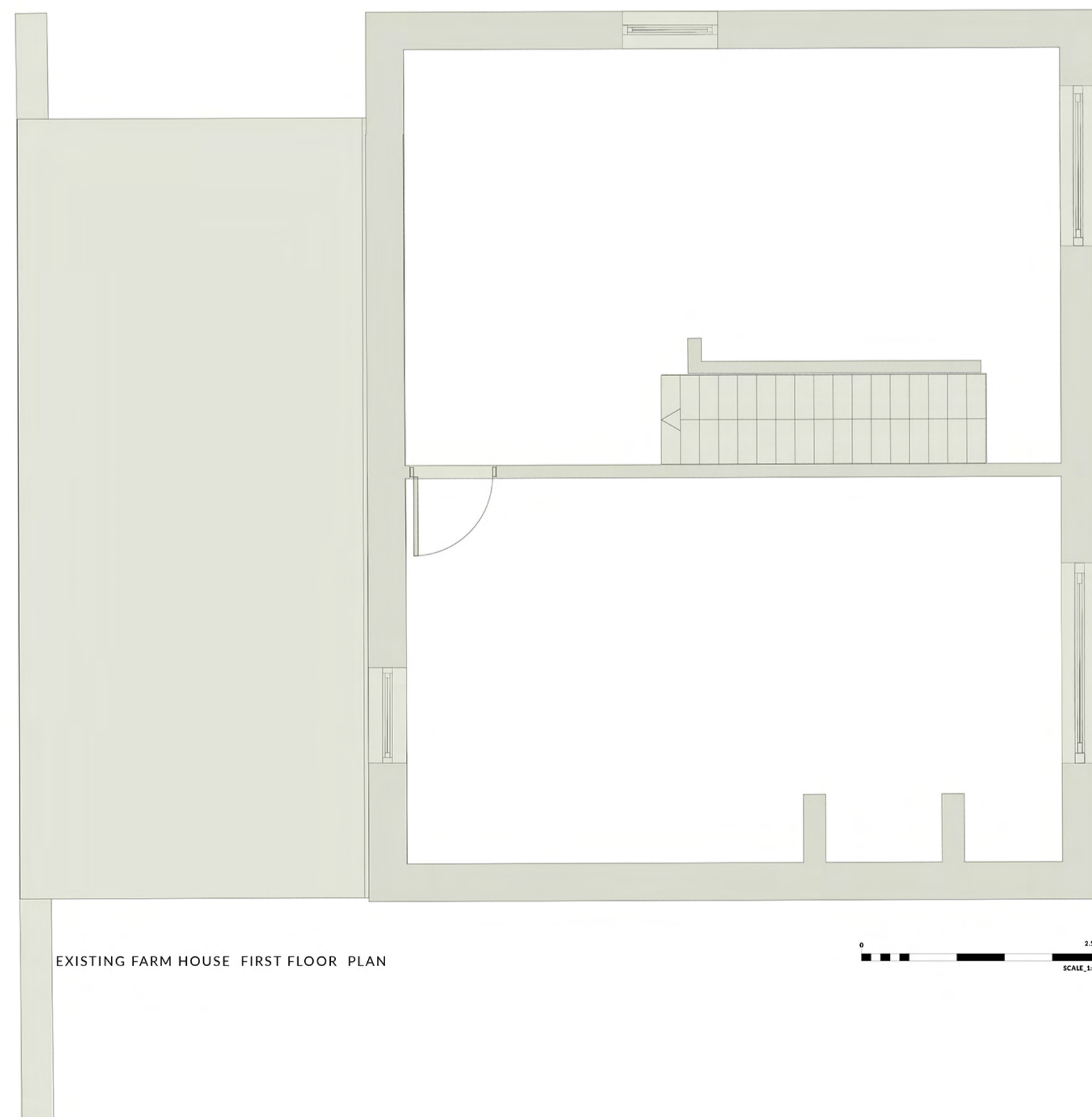
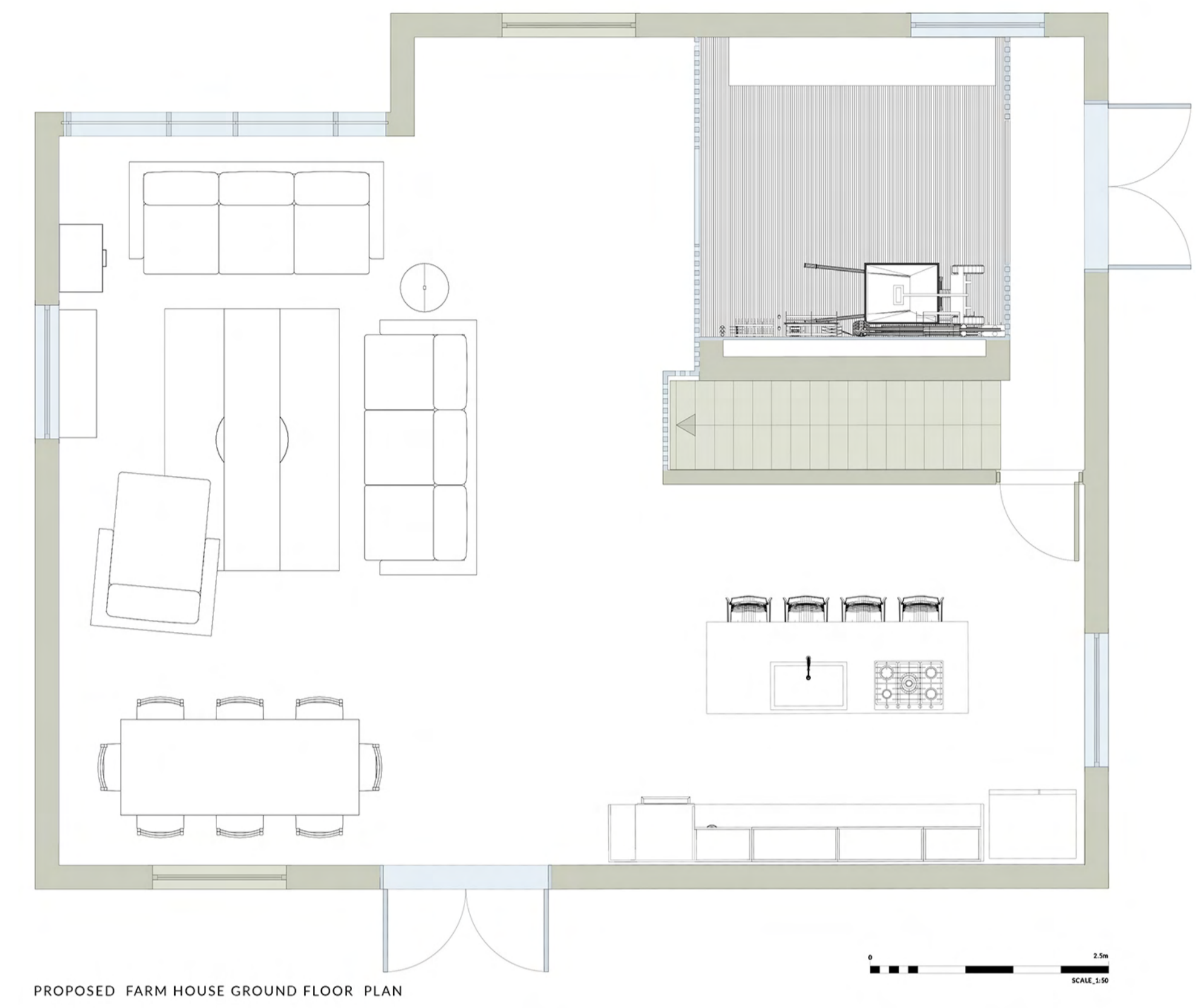
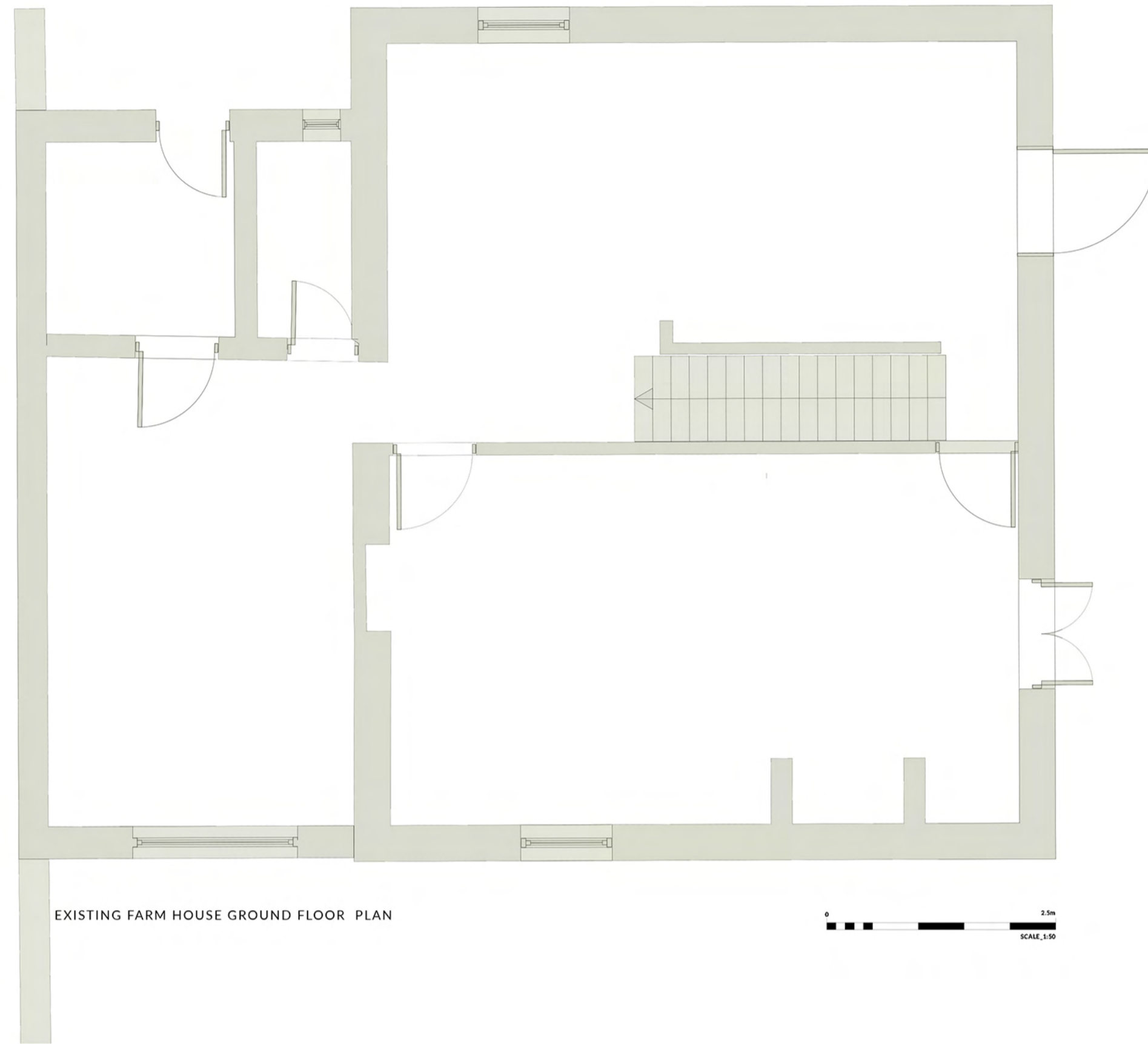
**FARM HOUSE.**





# DESIGN.

ITERATION 3 FARM HOUSE RENOVATION  
-PLANS



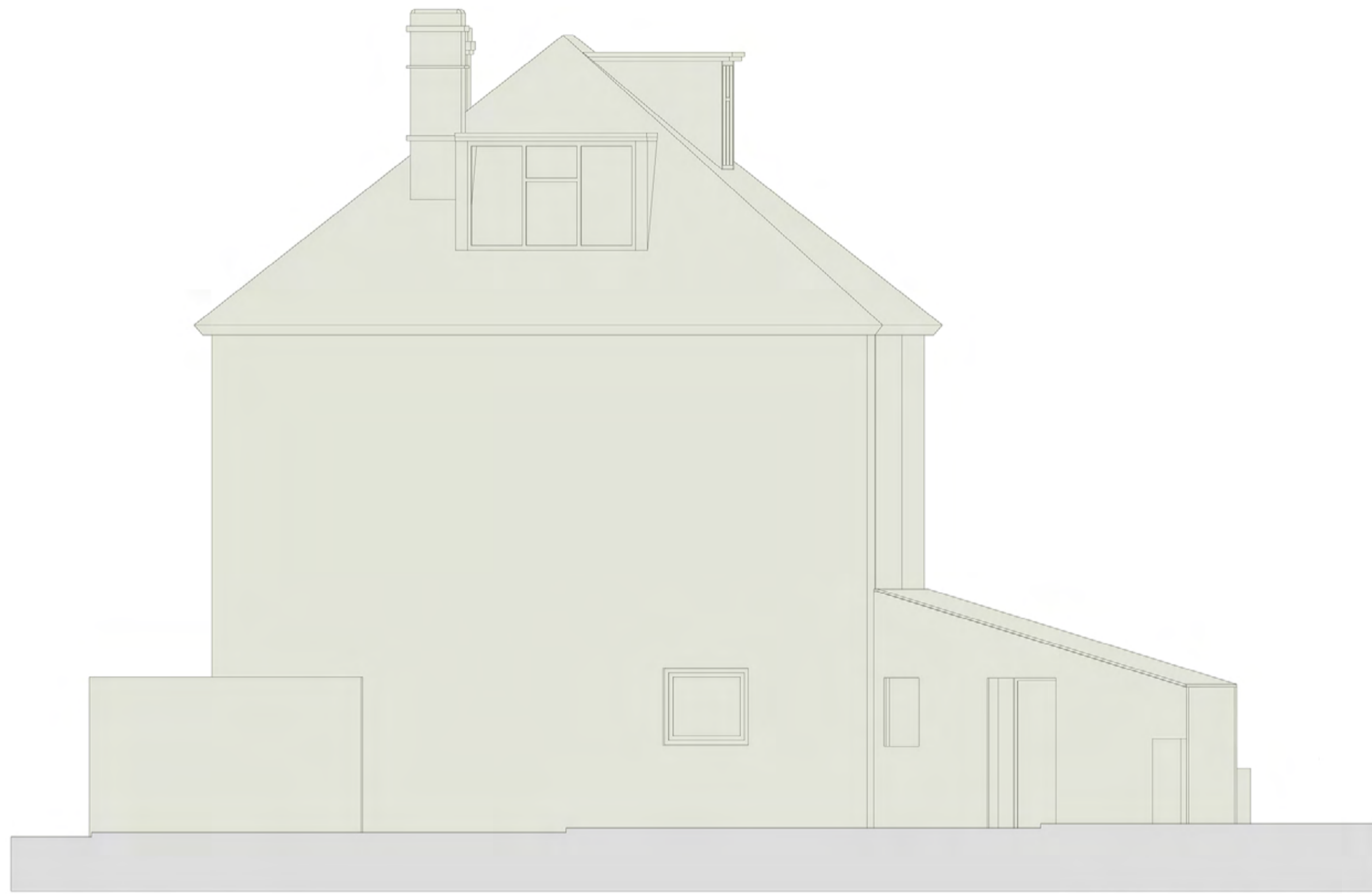
The Farm house will still progrematically stay the same as a farm house it will be rnovatedn ang changed t will hold a cpacity for 4 adults but can be developed fruther .The space will be a permantant stay for the people

EXISTING  
NEW PROPOSED  
BUILDED

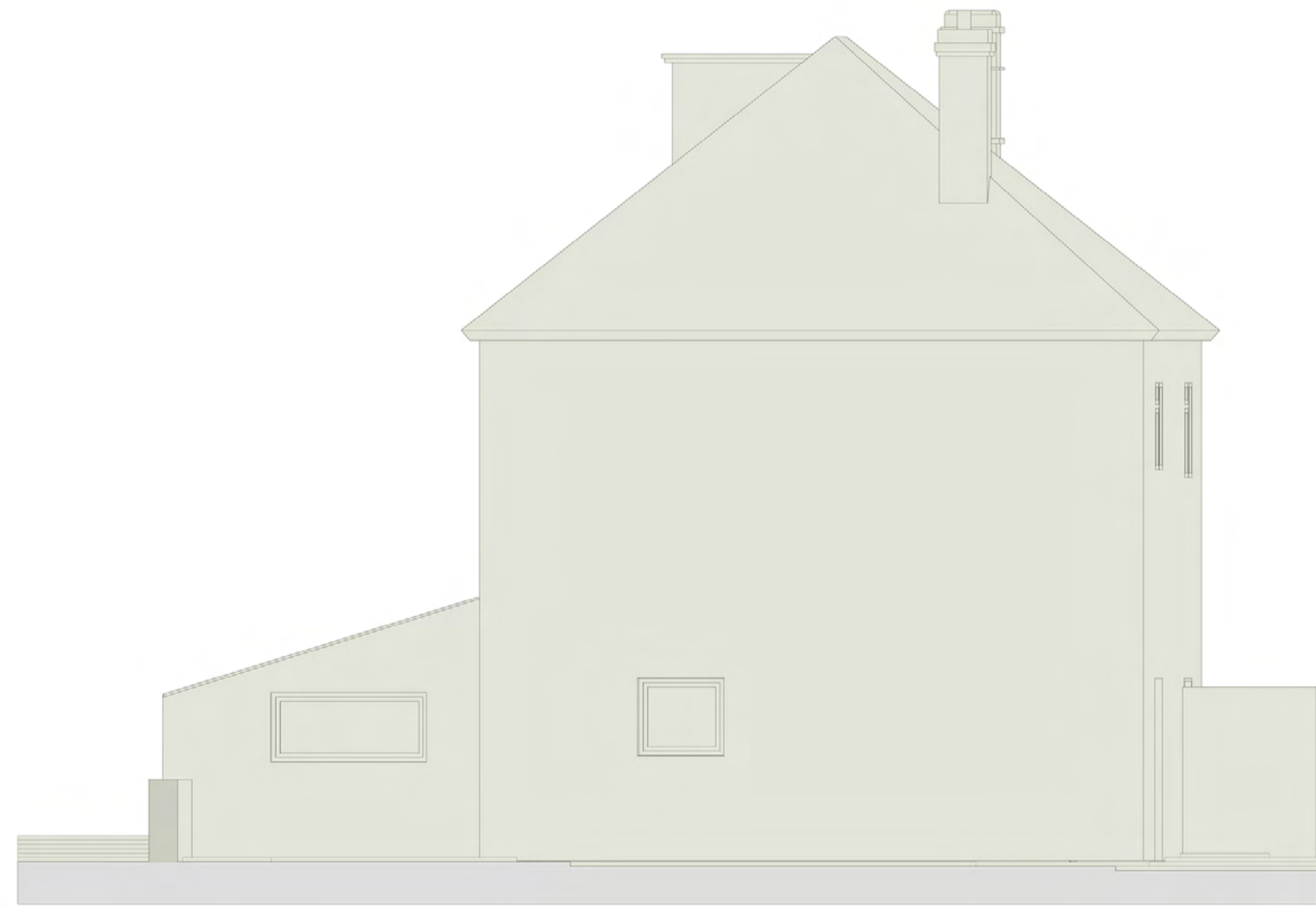
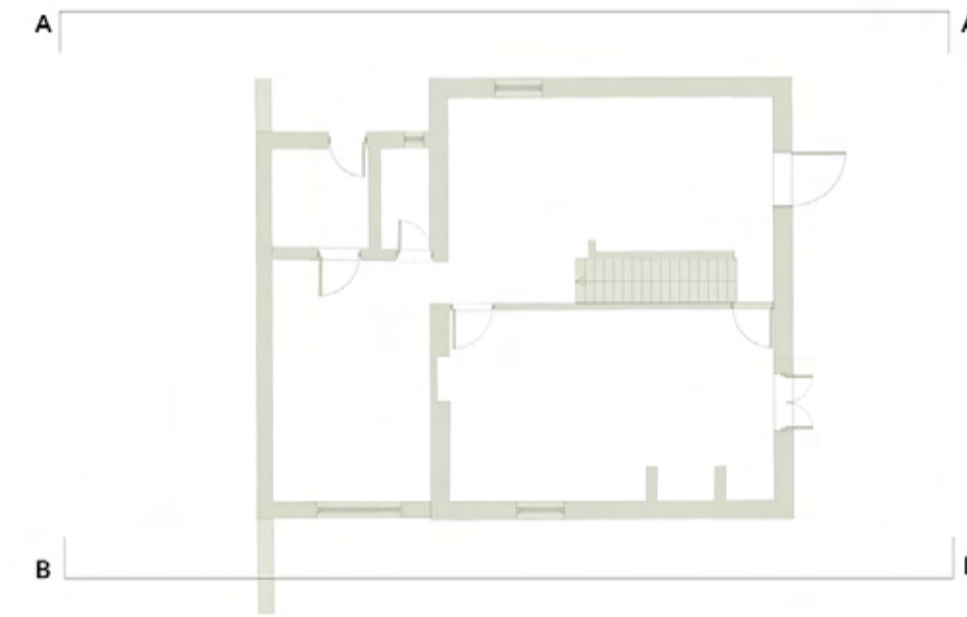


# DESIGN.

ITERATION 3 FARM HOUSE RENOVATION  
-ELEVATION



EXISTING FARM HOUSE SECTION A



EXISTING FARM HOUSE SECTION B



PROPOSED FARM HOUSE ELEVATION A



PROPOSED FARM HOUSE ELEVATION B



The Farm house will still programatically stay the same as a farm house it will be renovated and changed it will hold a capacity for 4 adults but can be developed further. The space will be a permanent stay for the working farmers to monitor the farm and be care takers for the rest of the site.

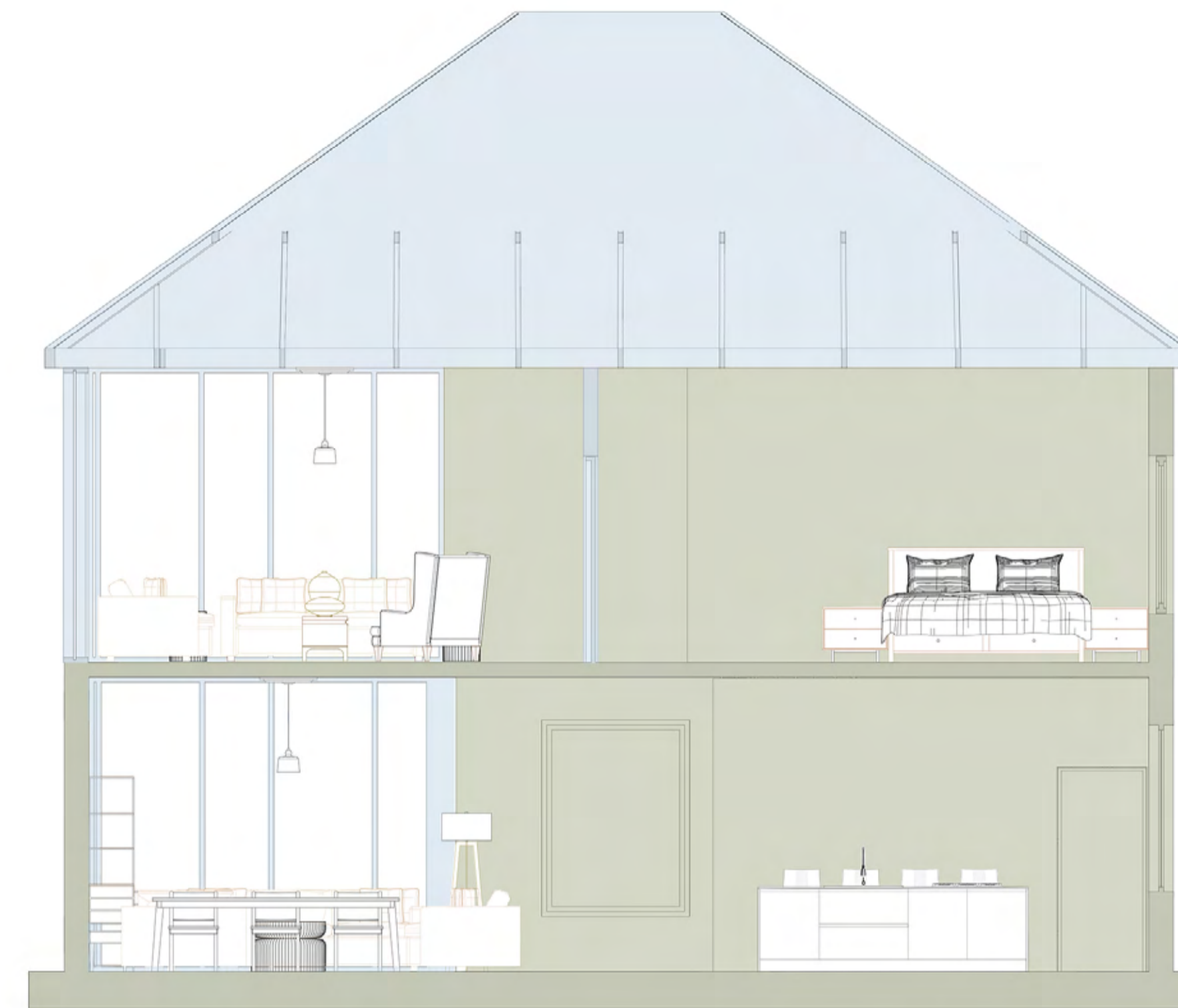
EXISTING  
NEW PROPOSED  
BUILT



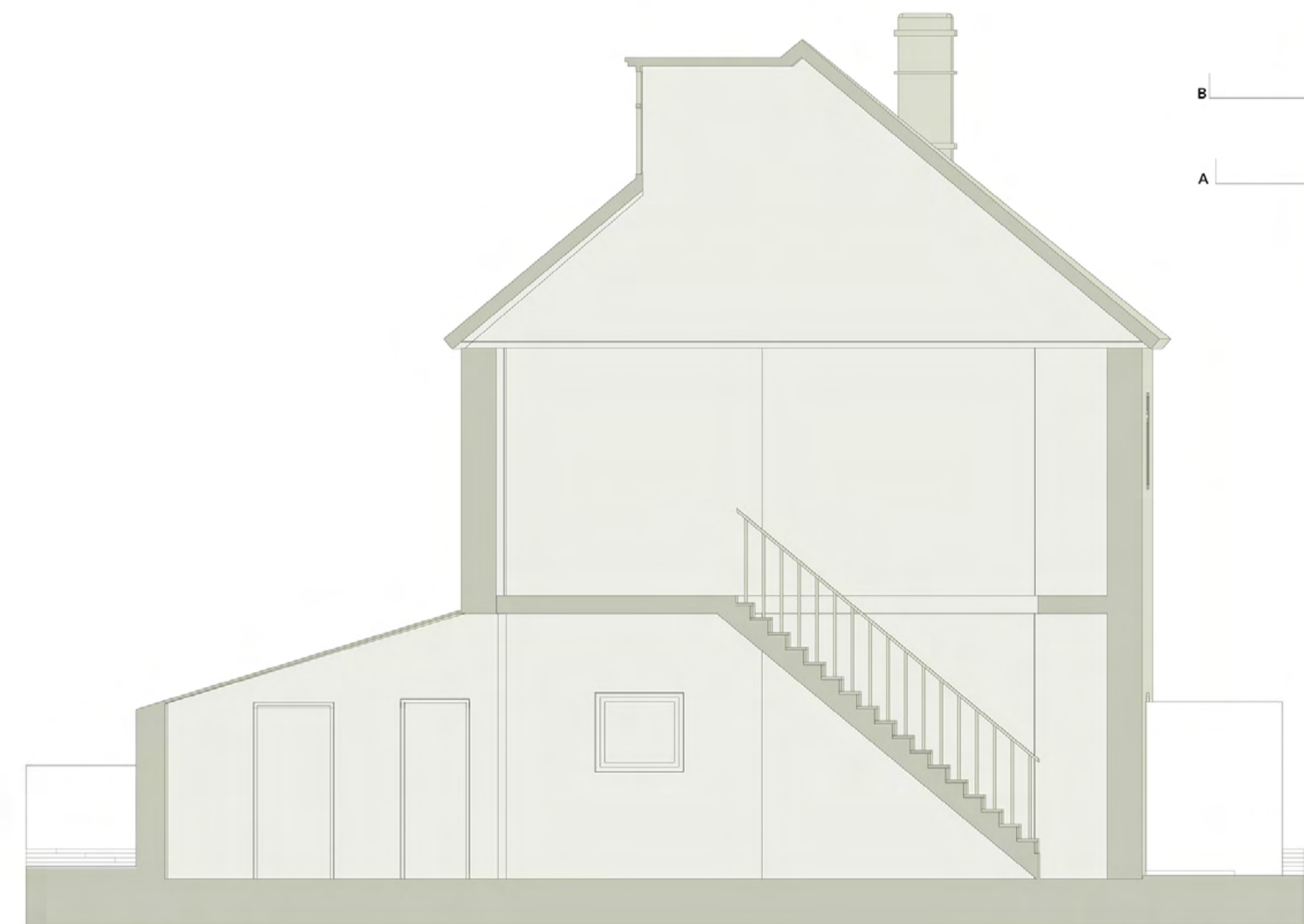
**DESIGN.**  
 ITERATION 3 FARM HOUSE RENOVATION  
 SECTION



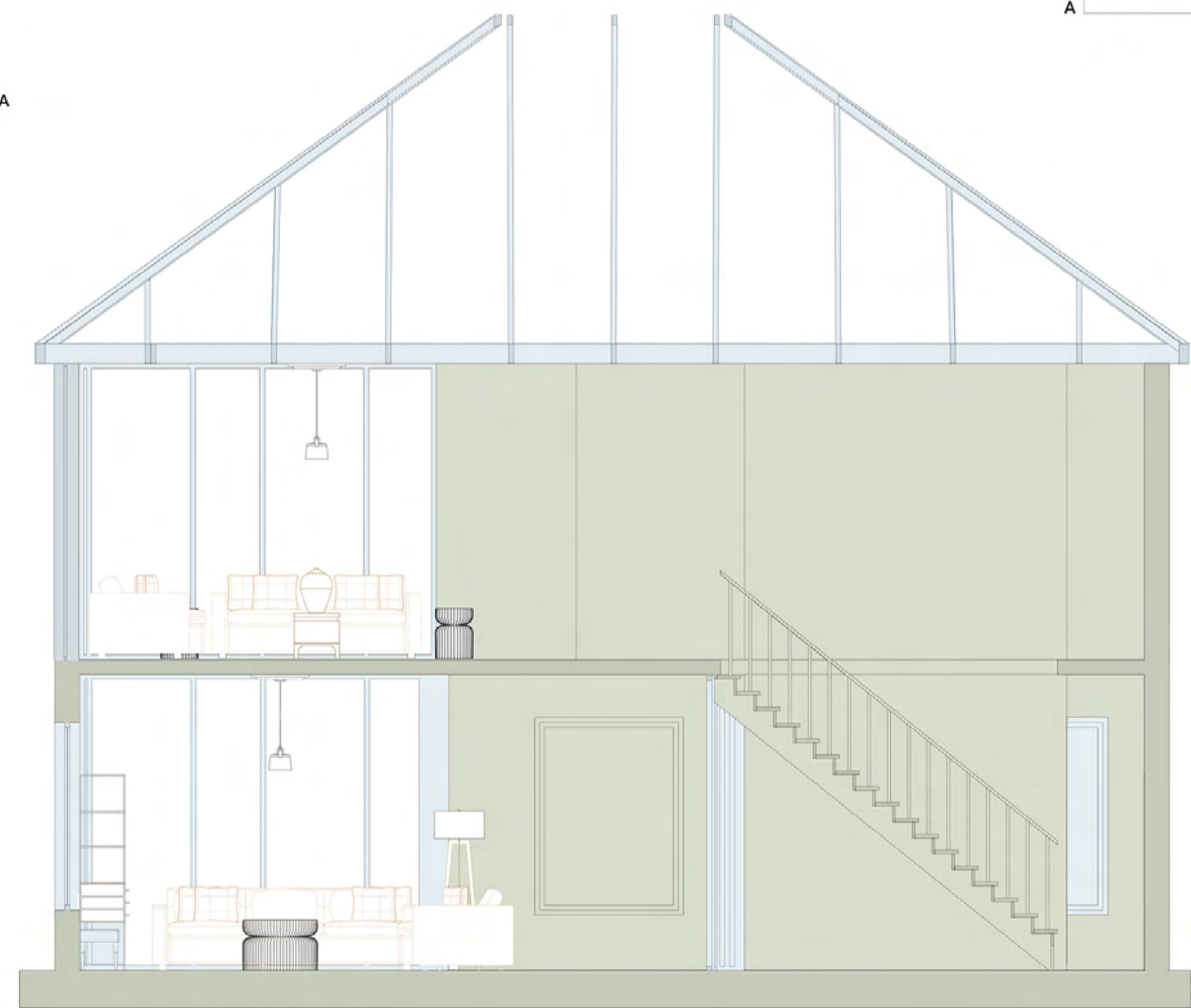
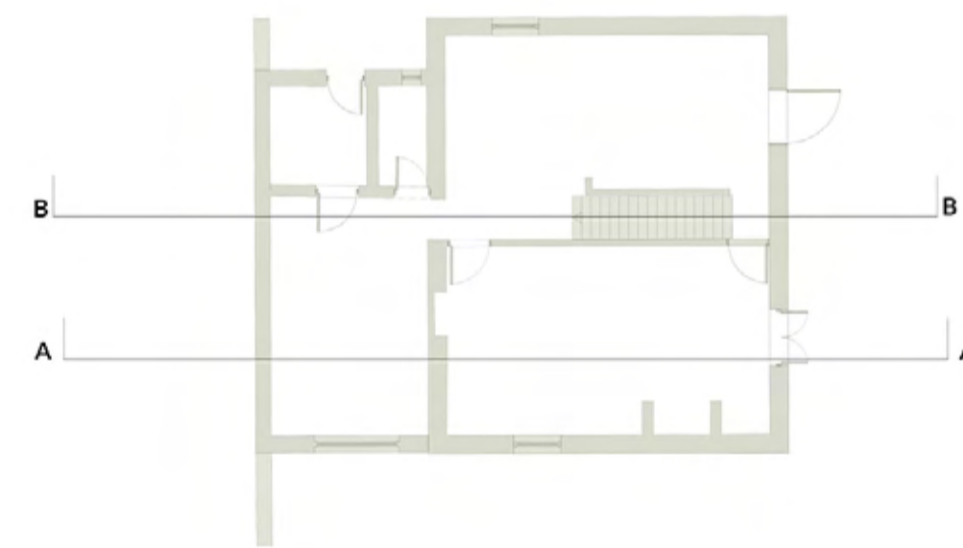
EXISTING FARM HOUSE SECTION A



PROPOSED FARM HOUSE SECTION A



EXISTING FARM HOUSE SECTION B



PROPOSED FARM HOUSE SECTION B



The Farm house will still programatically stay the same as a farm house it will be renovated and changed it will hold a capacity for 4 adults but can be developed further. The space will be a permanent stay for the working farmers to monitor the farm and be care takers for the rest of the site.

EXISTING  
 NEW PROPOSED  
 BUILT



# DESIGN.

ITERATION 3 FARM HOUSE RENOVATION  
-RENDERS

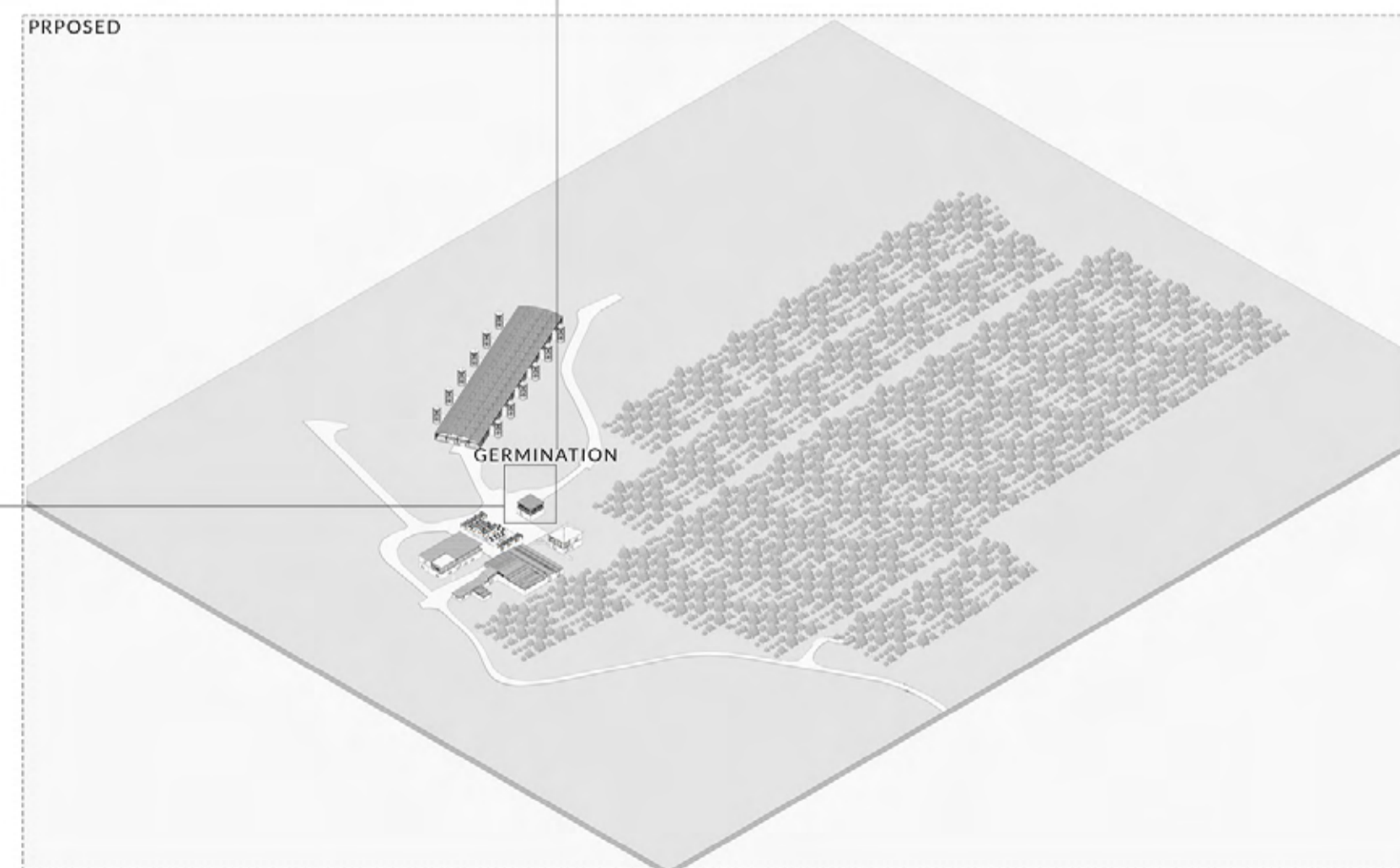
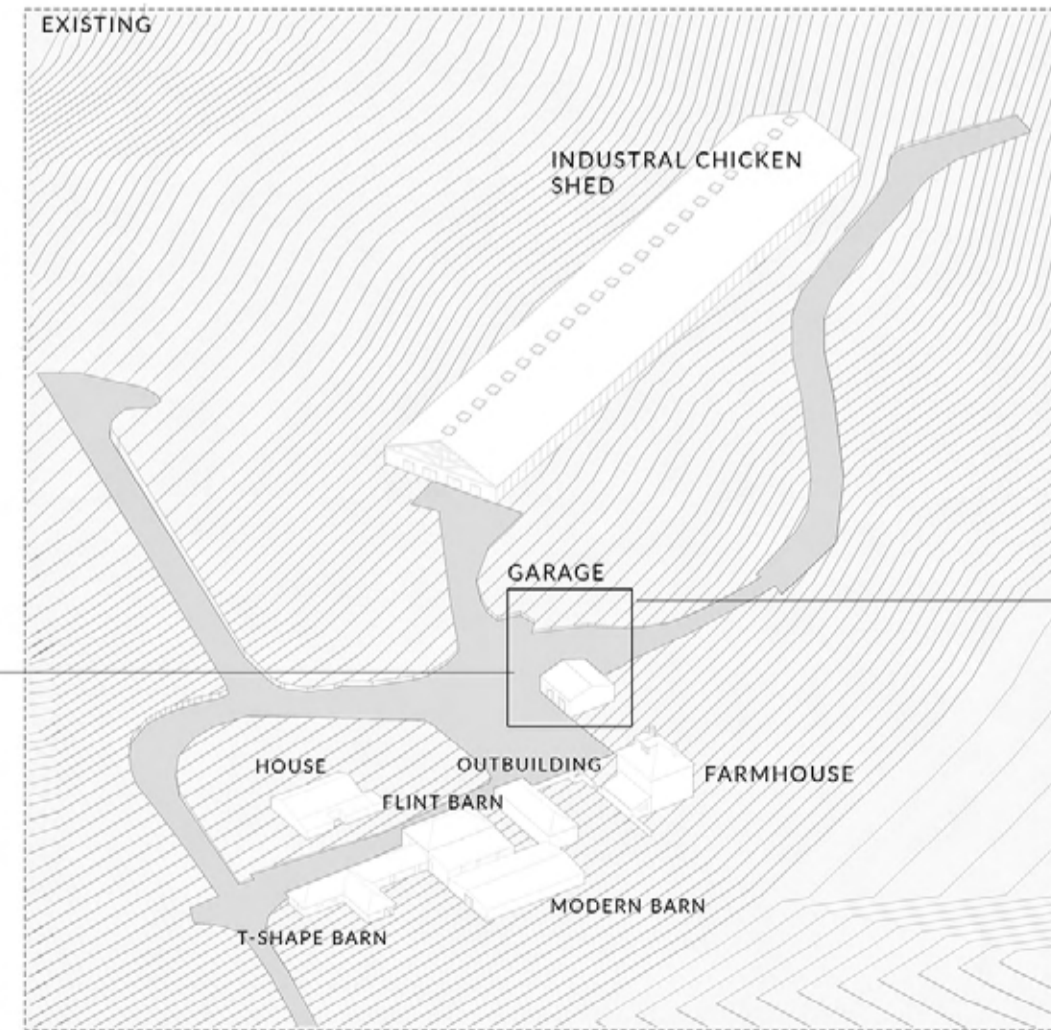
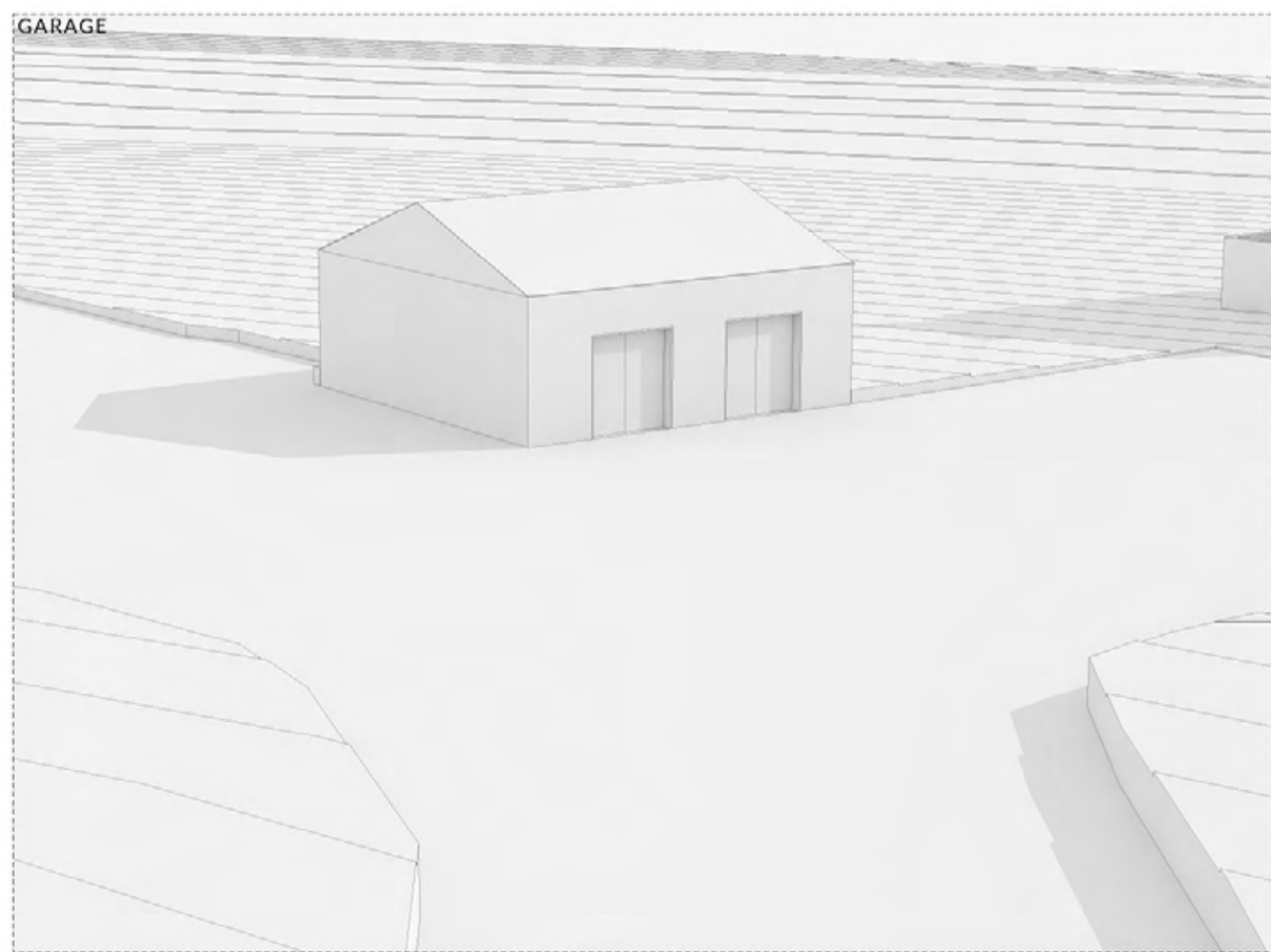
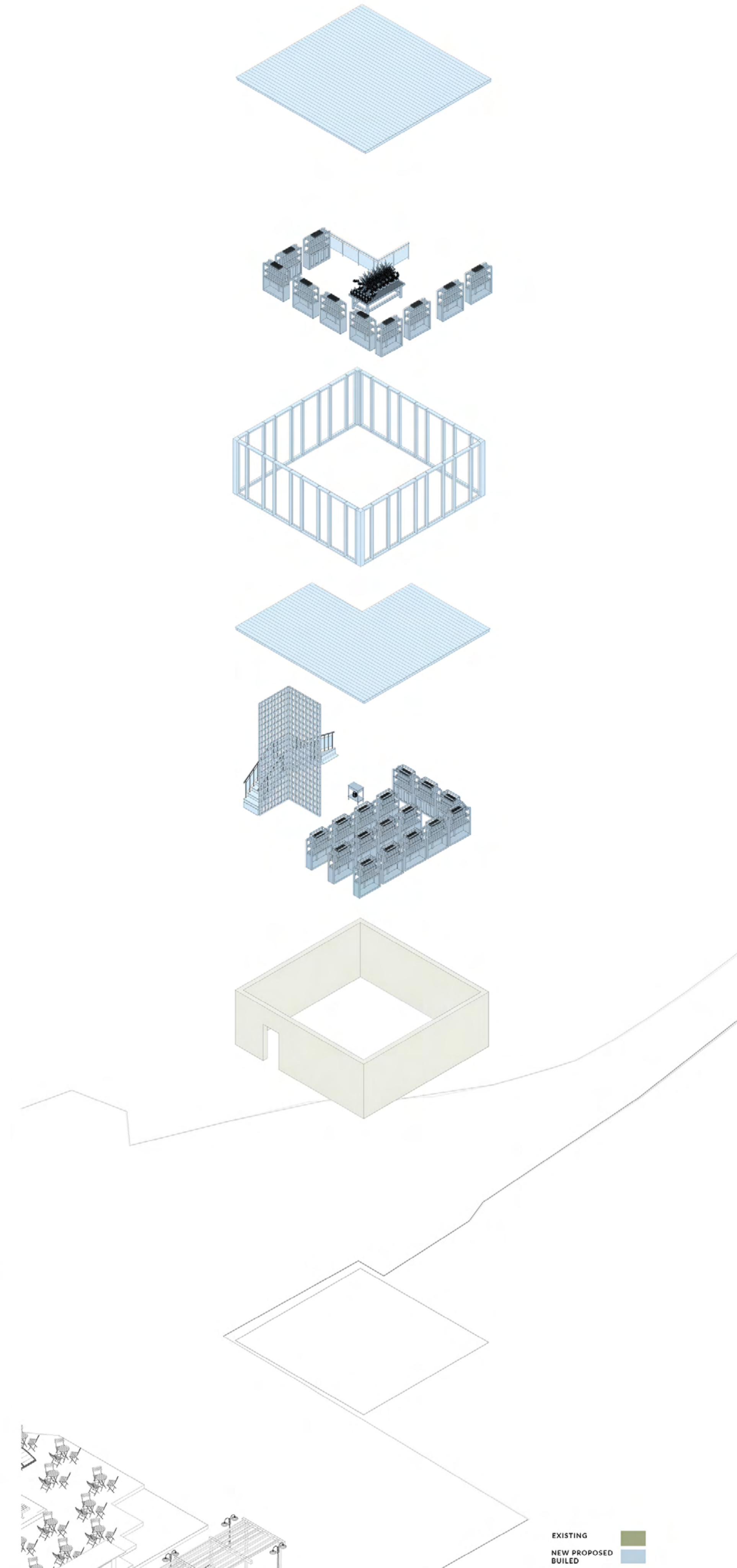
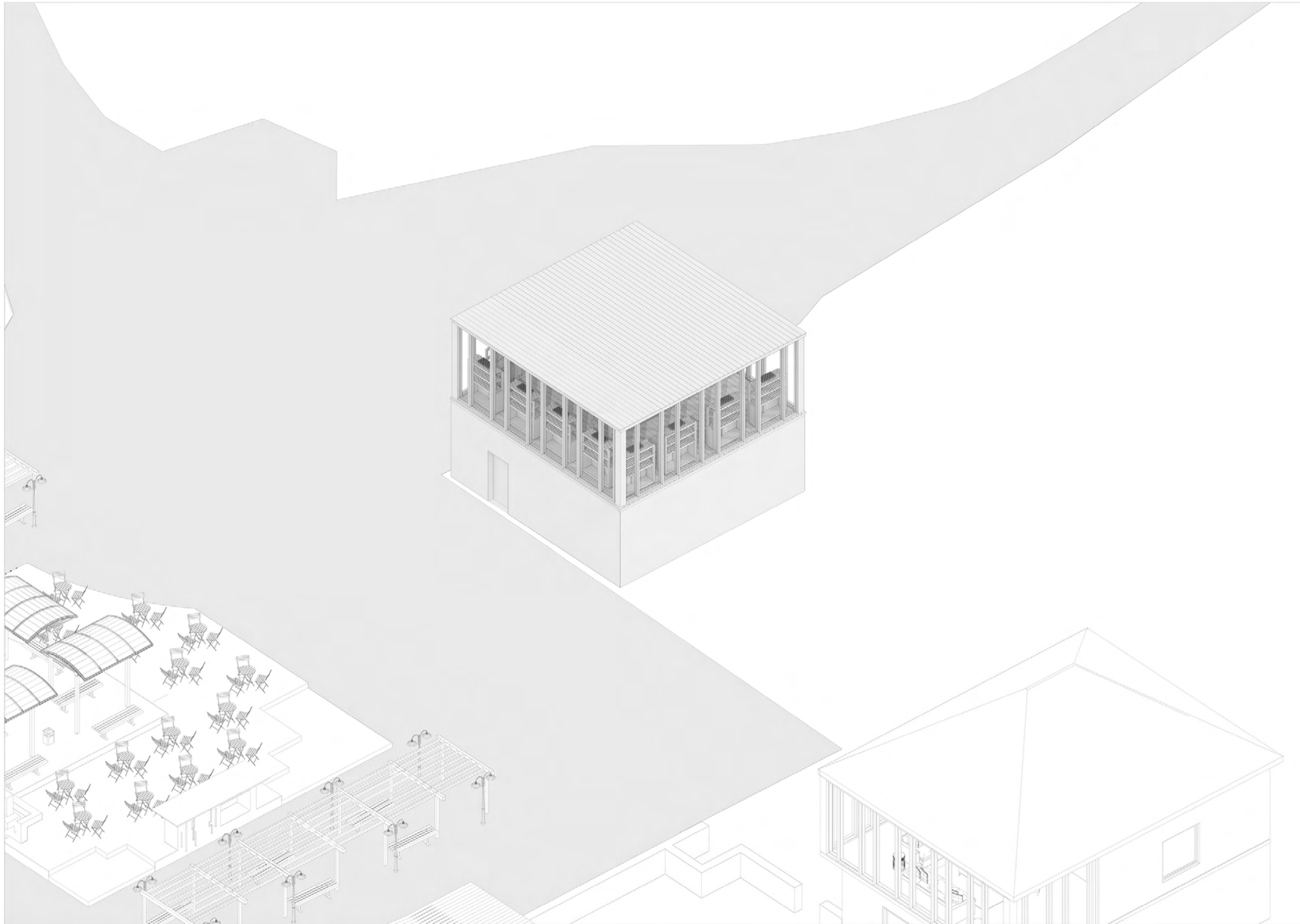




**GERMINATION ROOM .**

# DESIGN.

ITERATION 3 GEEMINATION CONVERSION  
3D



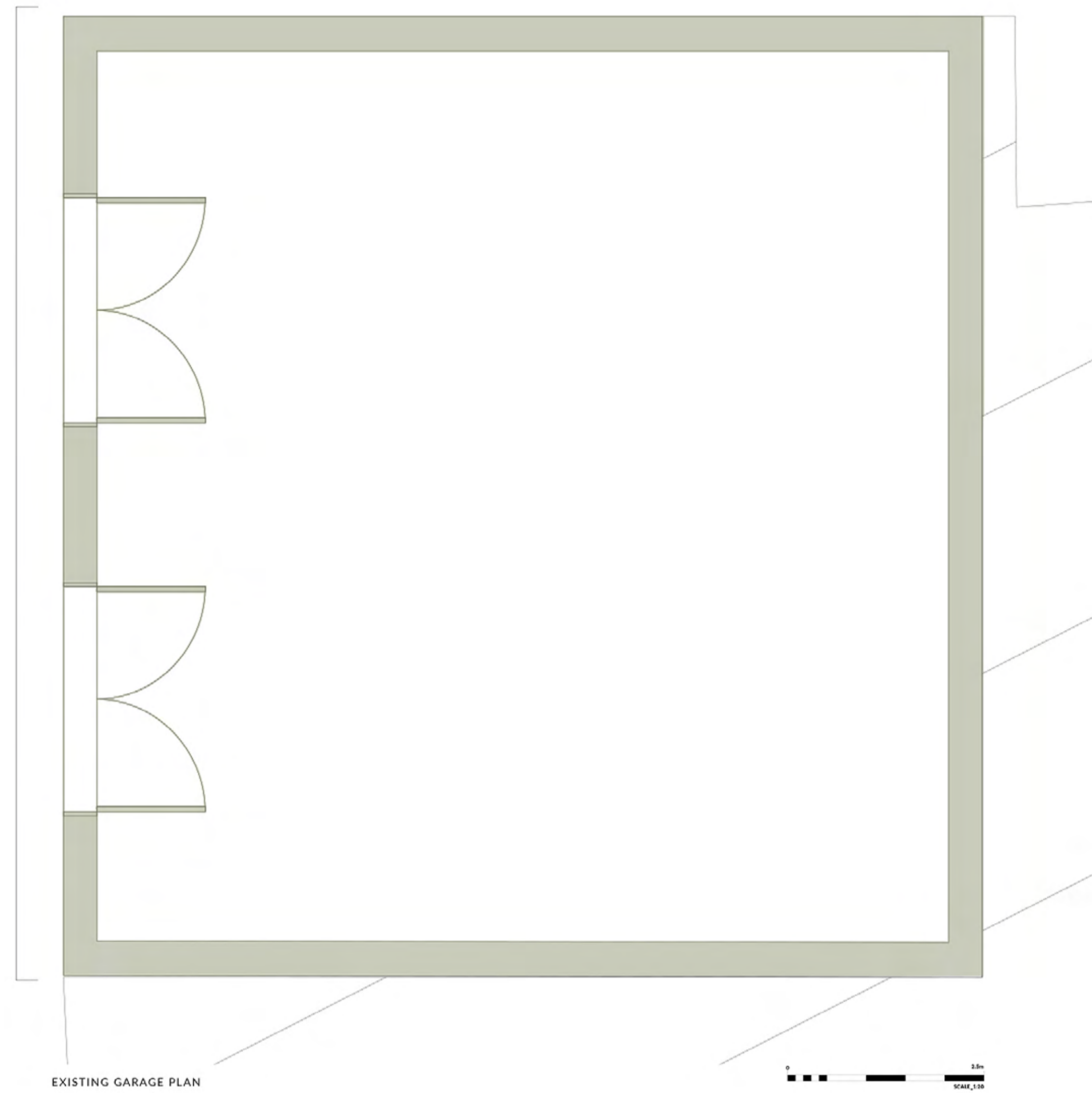
This is the germination room that has been converted from a concrete block garage. The purpose of that space is that there needs to be a facility for a controlled environment to grow crops successfully until they have matured and then they can be transported into the greenhouse and further more planted on site.

EXISTING  
NEW PROPOSED  
BUILT

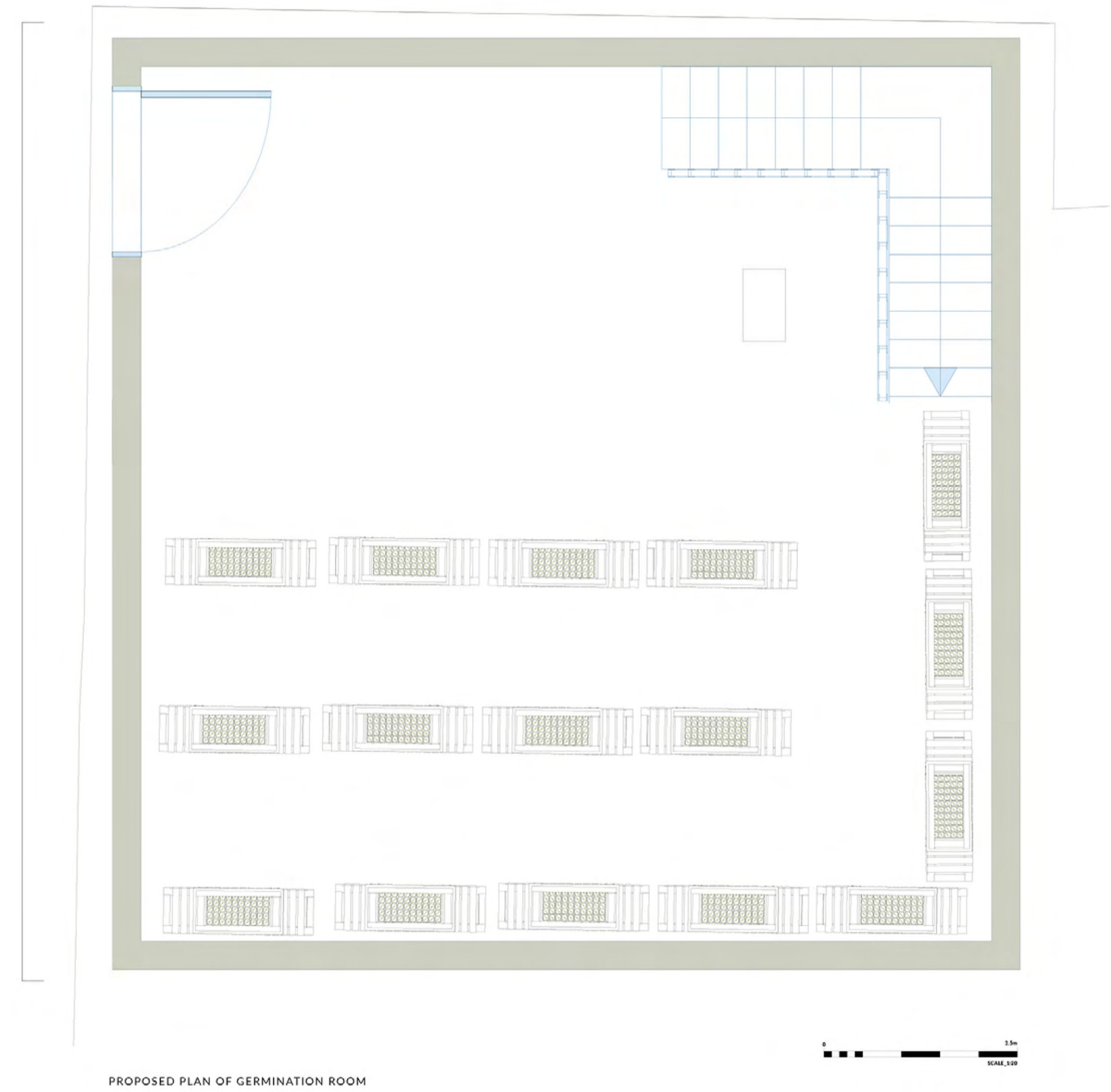


# DESIGN.

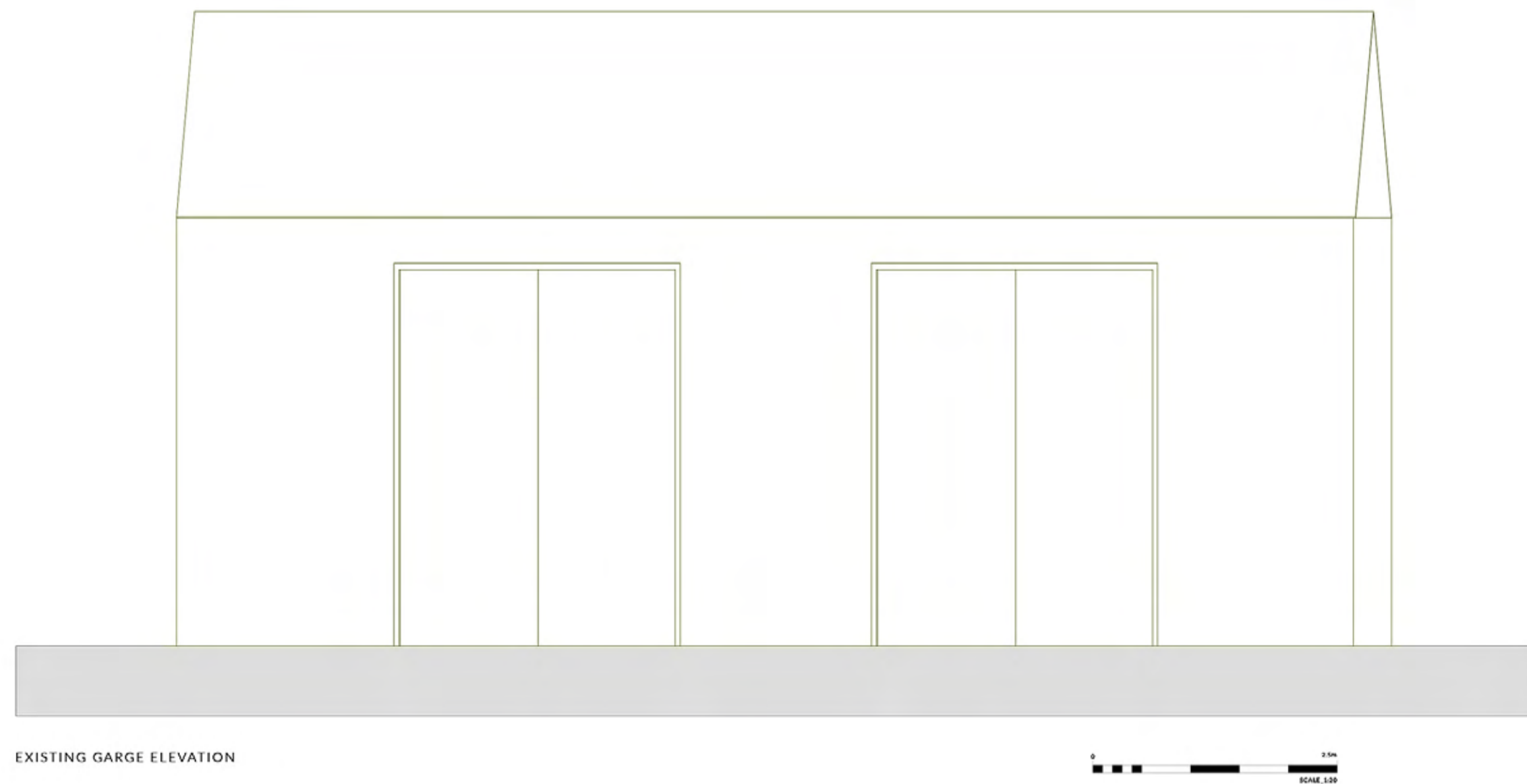
ITERATION 3 GEEMINATION ROOM  
CONVERSION PLANS AND SECTION



EXISTING GARAGE PLAN



PROPOSED PLAN OF GERMINATION ROOM



EXISTING GARAGE ELEVATION



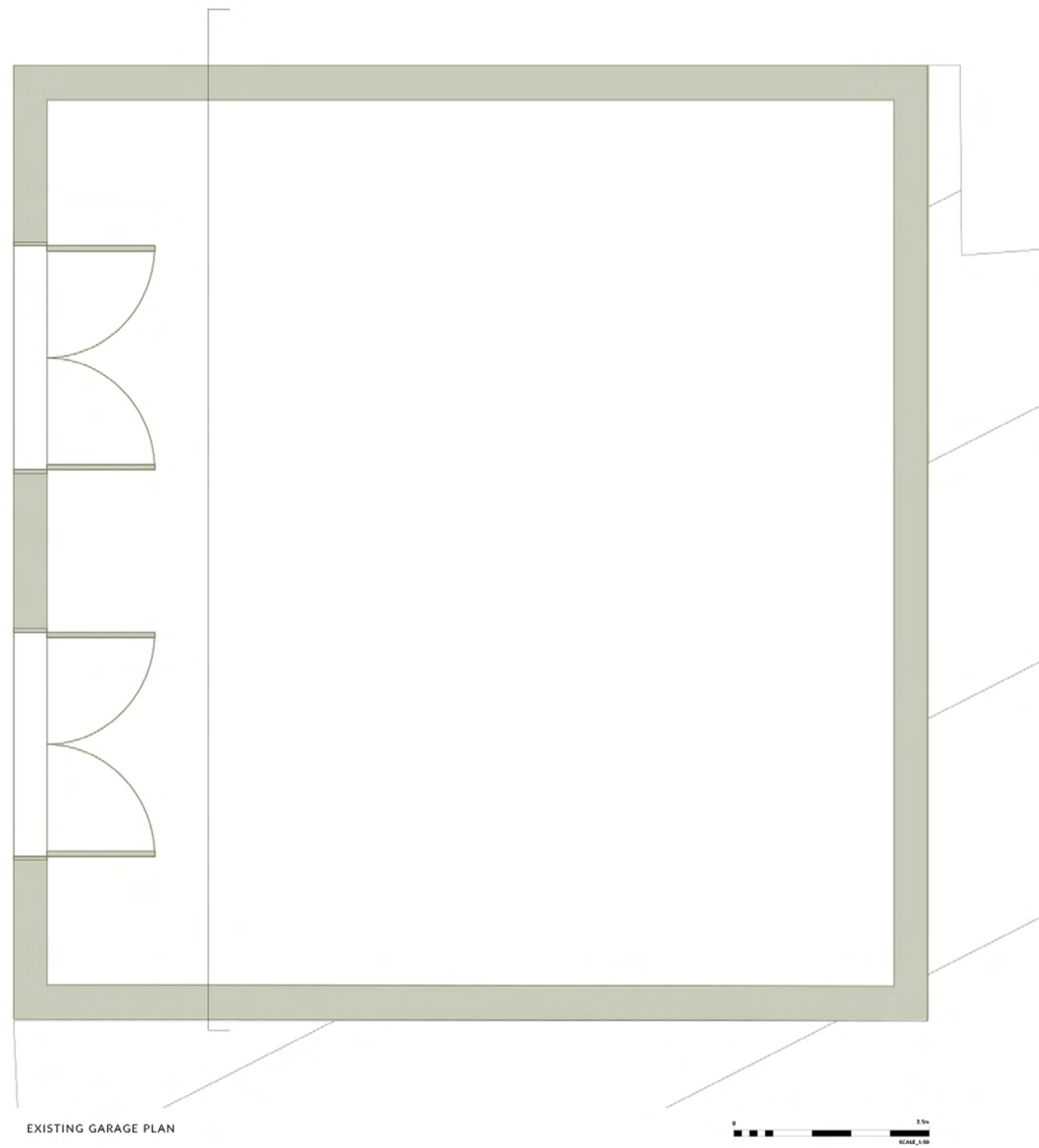
PROPOSED ELEVATION OF GERMINATION ROOM

This is the germination room that has been converted from a concrete block garage. The purpose of that space is that there needs to be a facility for a controlled environment to grow crops successfully until they have matured and then they can be transported into the greenhouse and further more painted on site.

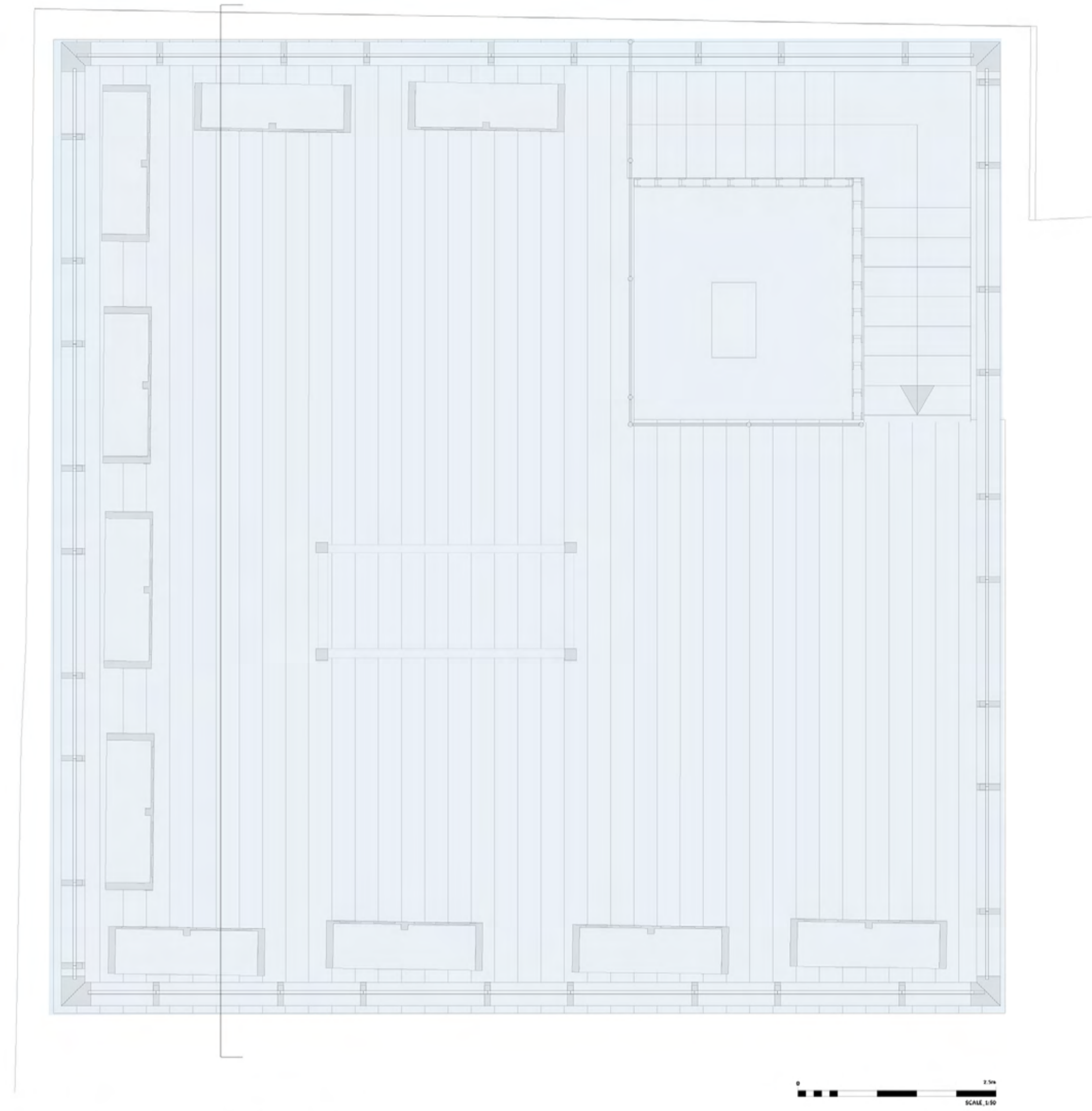
EXISTING  
NEW PROPOSED  
BUILT



**DESIGN.**  
 ITERATION 3 GEEMINATION ROOM  
 CONVERSION PLANS AND SECTION



EXISTING GARAGE PLAN



PROPOSED PLAN OF GERMINATION ROOM



EXISTING GARAGE ELEVATION



PROPOSED ELEVATION OF GERMINATION ROOM

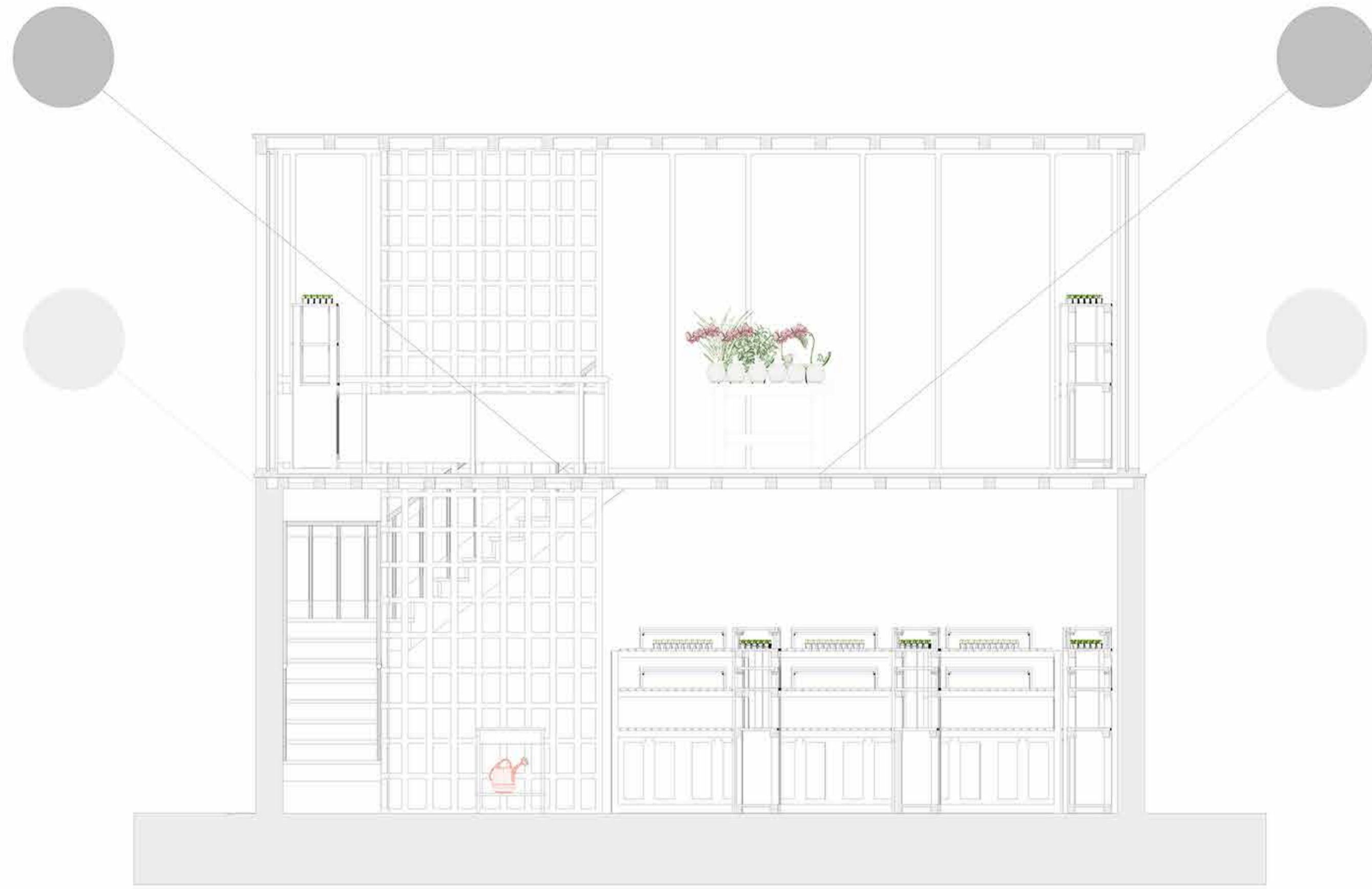
Due to the growth of an agroforest on site I will need allot more space which requires allot more space hence the second floor. The second floor will be naturally lit as it will requires less energy.

EXISTING  
 NEW PROPOSED  
 BUILDED

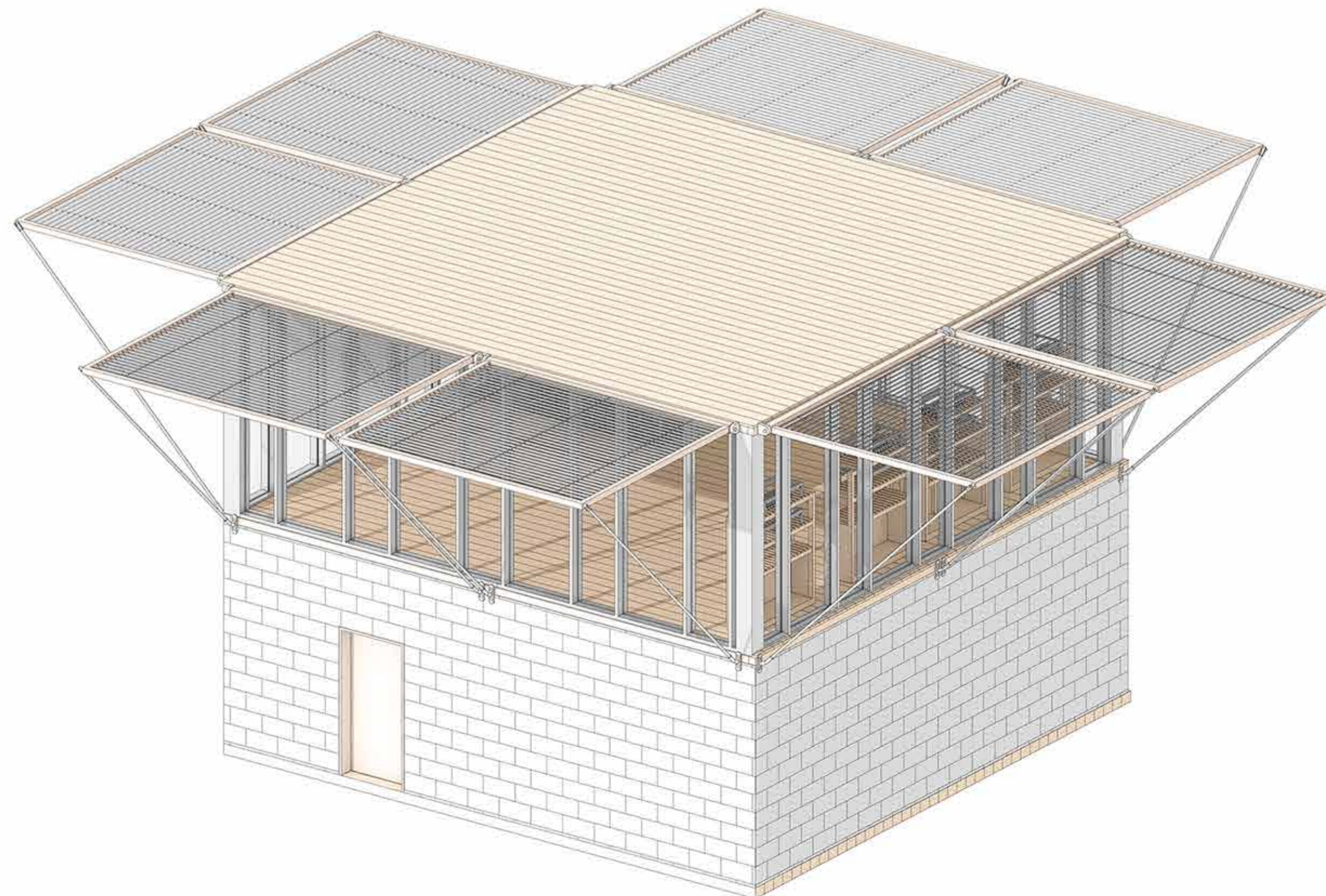
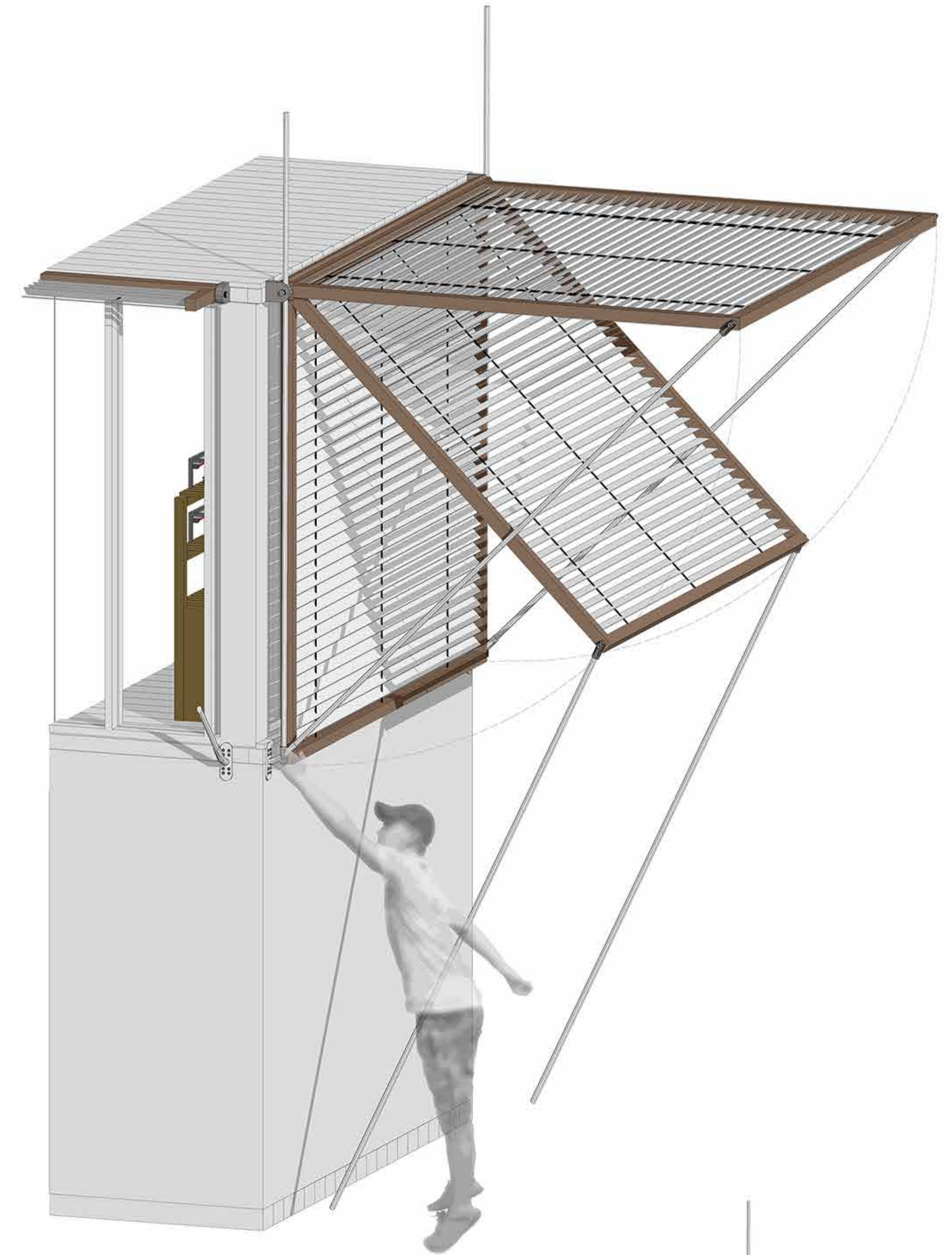


# DESIGN.

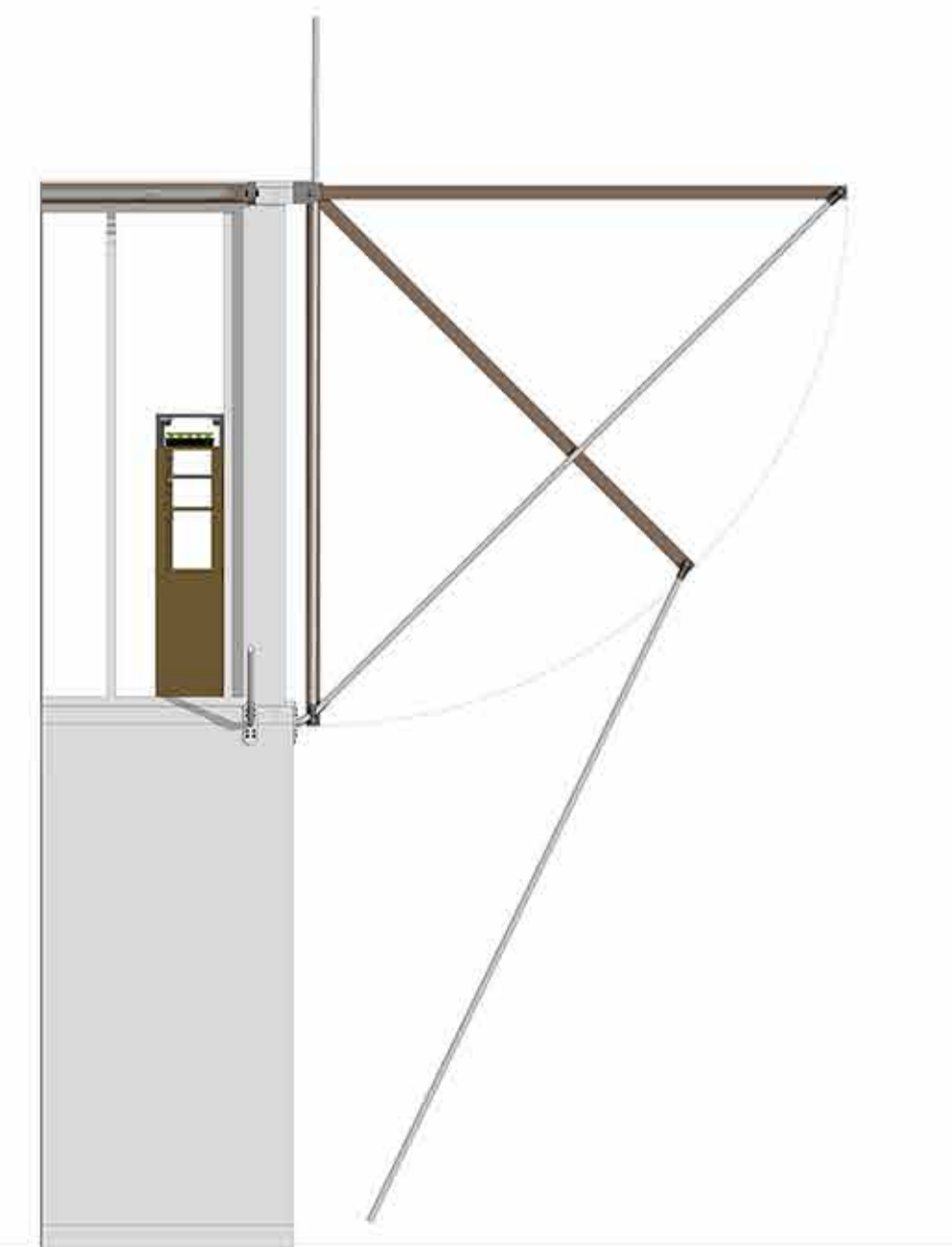
ITERATION 3 GEEMINATION CONVERSION  
PLANS AND SECTION



Proposed Section  
1:20  
Summer ■ High sun intensity  
Winter ■ Low sun intensity



The germination room will have an extra green house floor that will be there for the purpose of saving energy as it will be naturally lit. When the light intensity is really high in the summer the second floor will be covered by blind so that it can really control the light intensity.





**DESIGN.**  
ITERATION 3 GEEMINATION  
ROOM RENDER



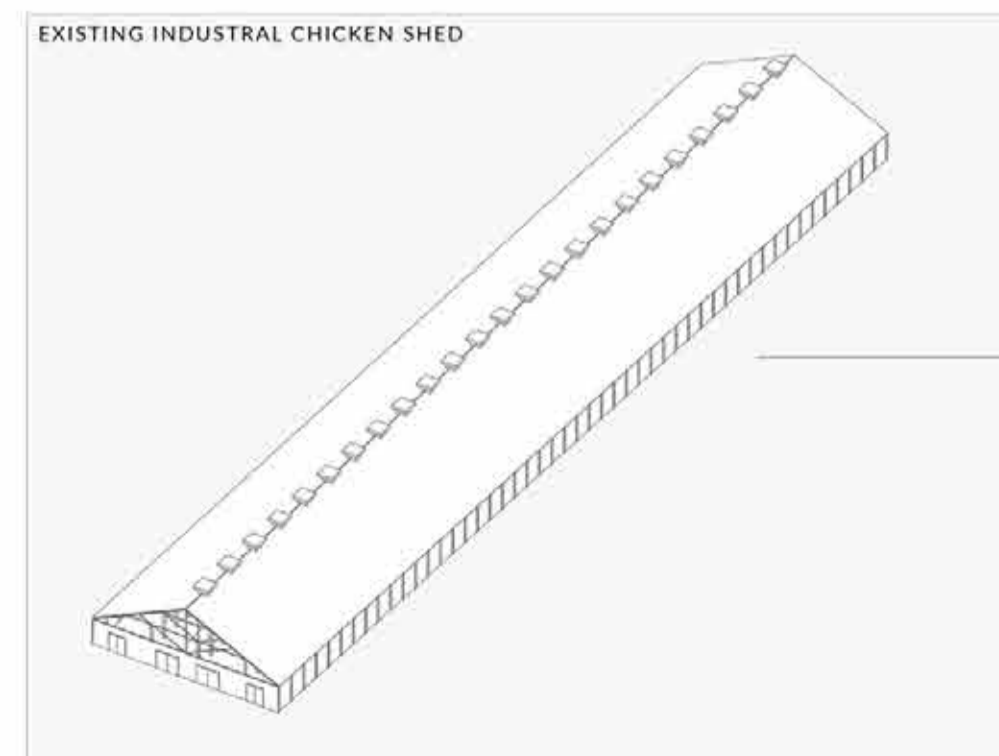
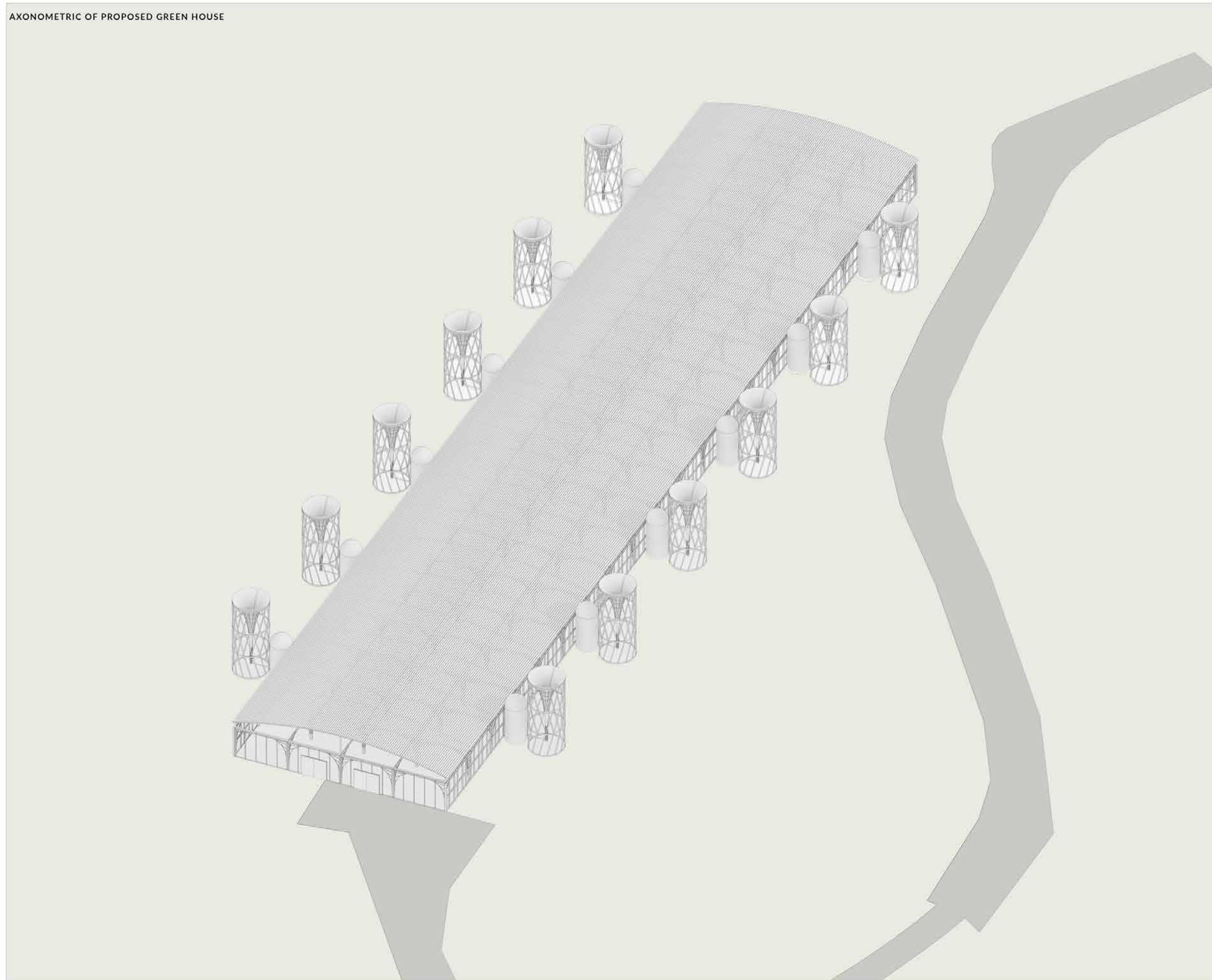


**GREEN HOUSE.**

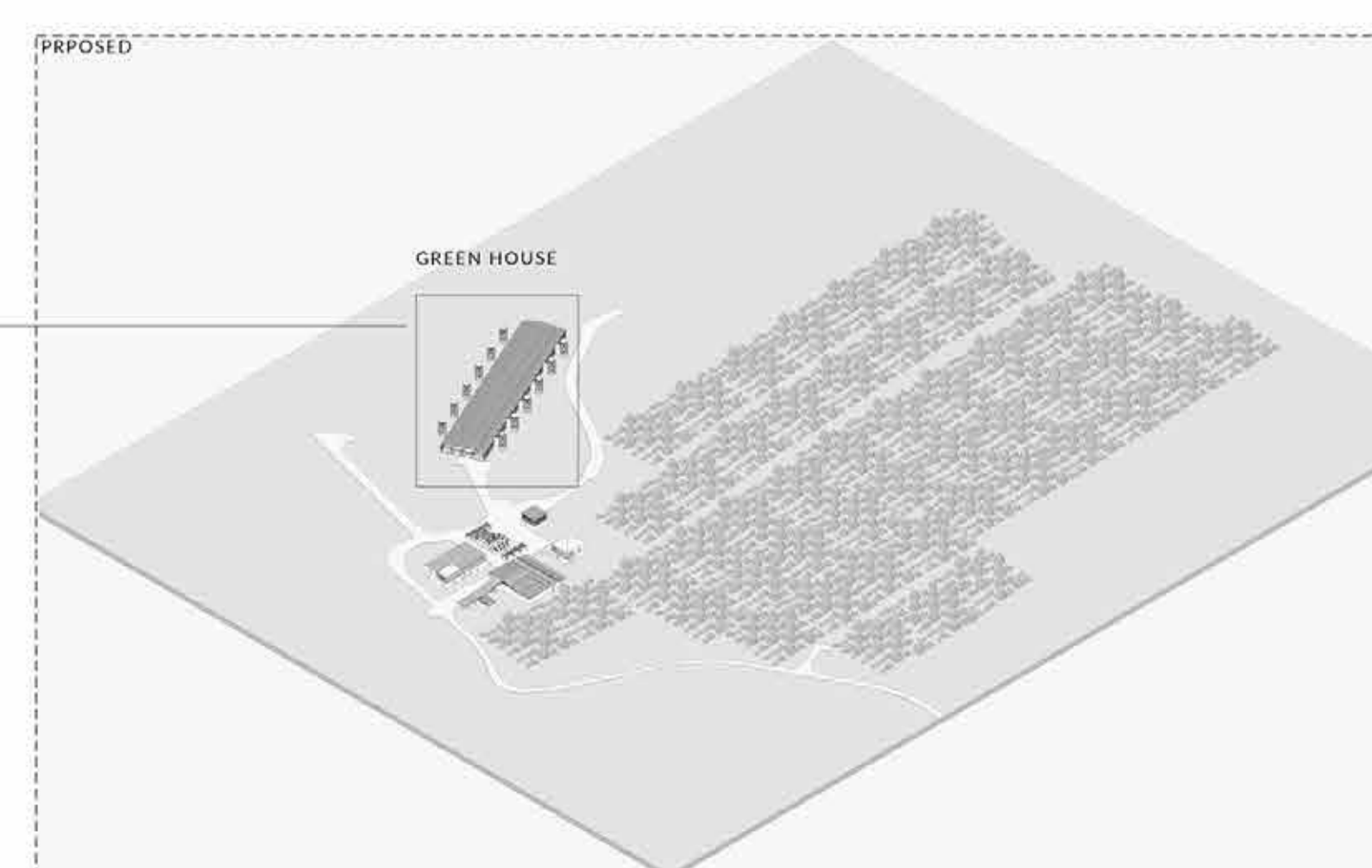
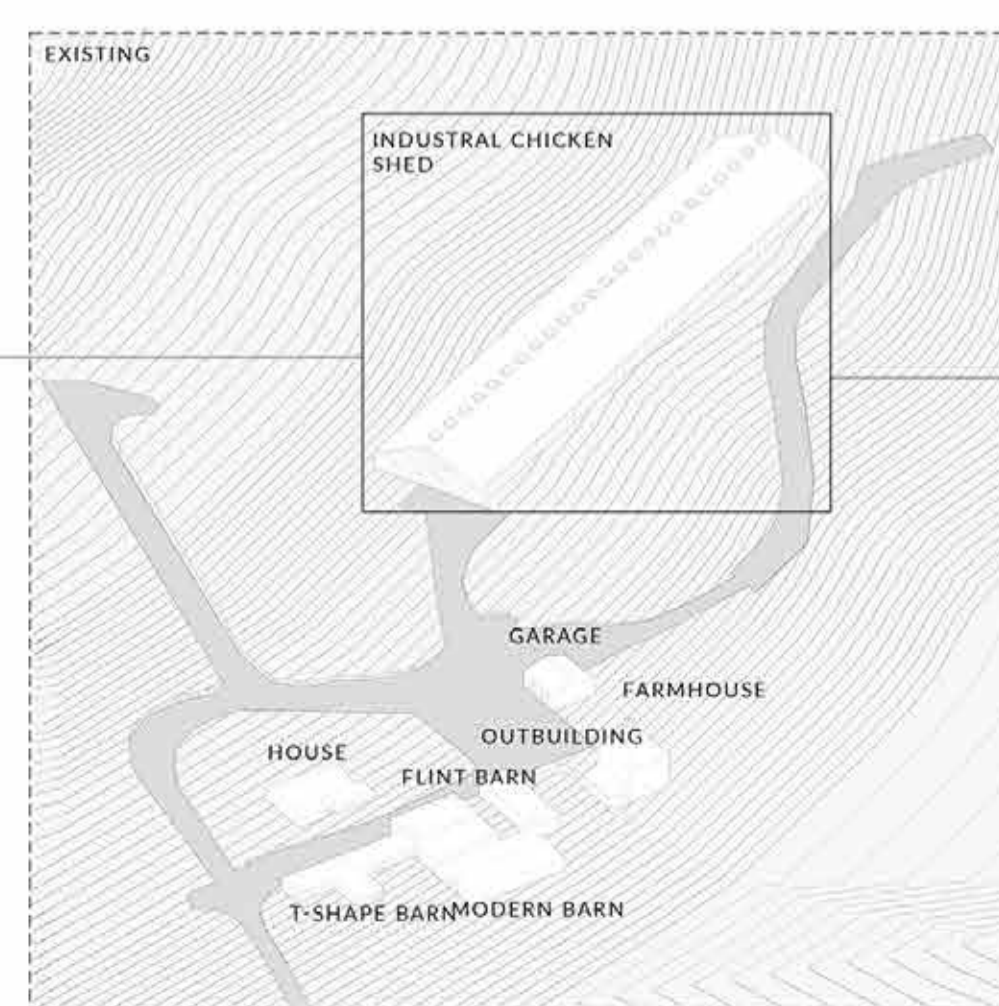
# DESIGN.

ITERATION 3 GREEN HOUSE  
CONVERSION AXONOMETRIC  
EXPLODED AXONOMETRIC

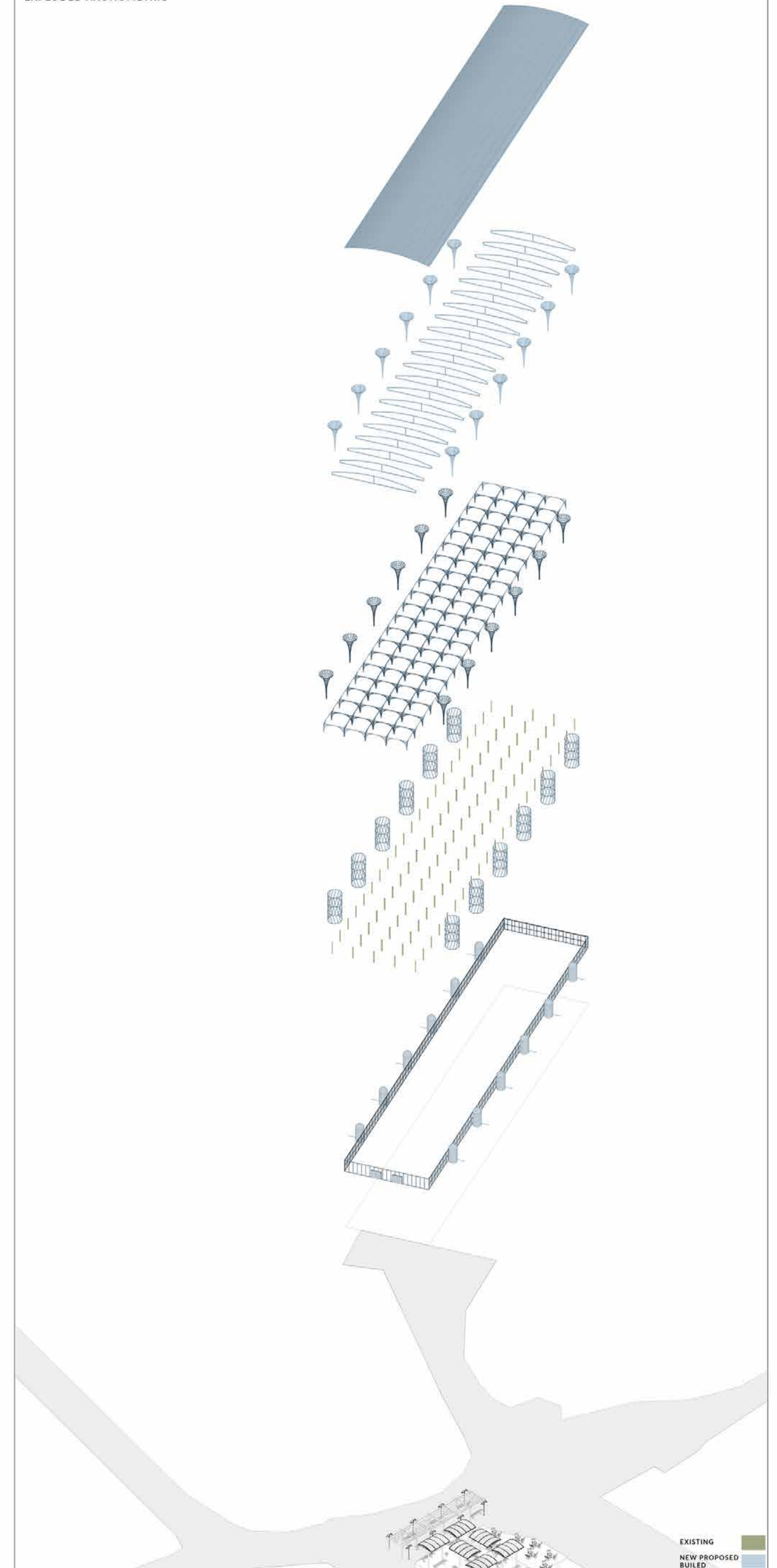
AXONOMETRIC OF PROPOSED GREEN HOUSE



This is the green house that has been converted from a industrial chicken shed the main existing structure still is still functional but everything else is not suitable for a green house so the plan is to make it more transparent and letting in as much sun as possible for green house so it mostly glazed. The dimension are 20m by 100m which is plenty of space to create the agreforests and start producing crops.



EXPLODED AXONOMETRIC

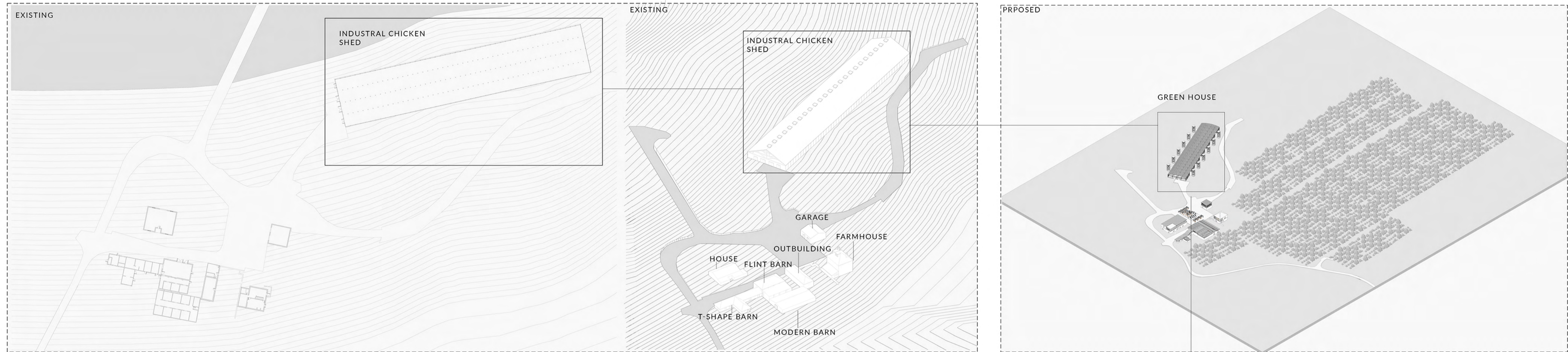


EXISTING  
NEW PROPOSED  
BUILT

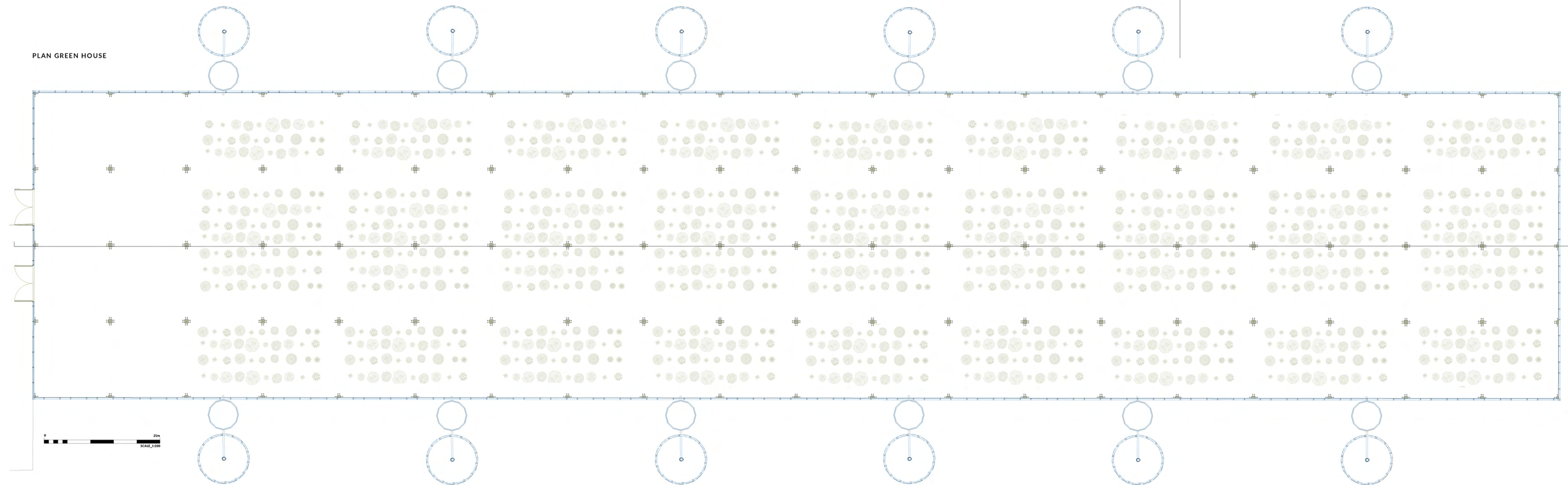


# DESIGN.

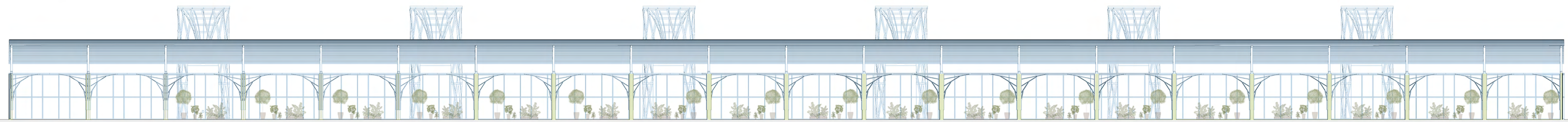
ITERATION 1 GREEN HOUSE CONVERSION  
PLANS AND SECTION



PLAN GREEN HOUSE



SECTION AA

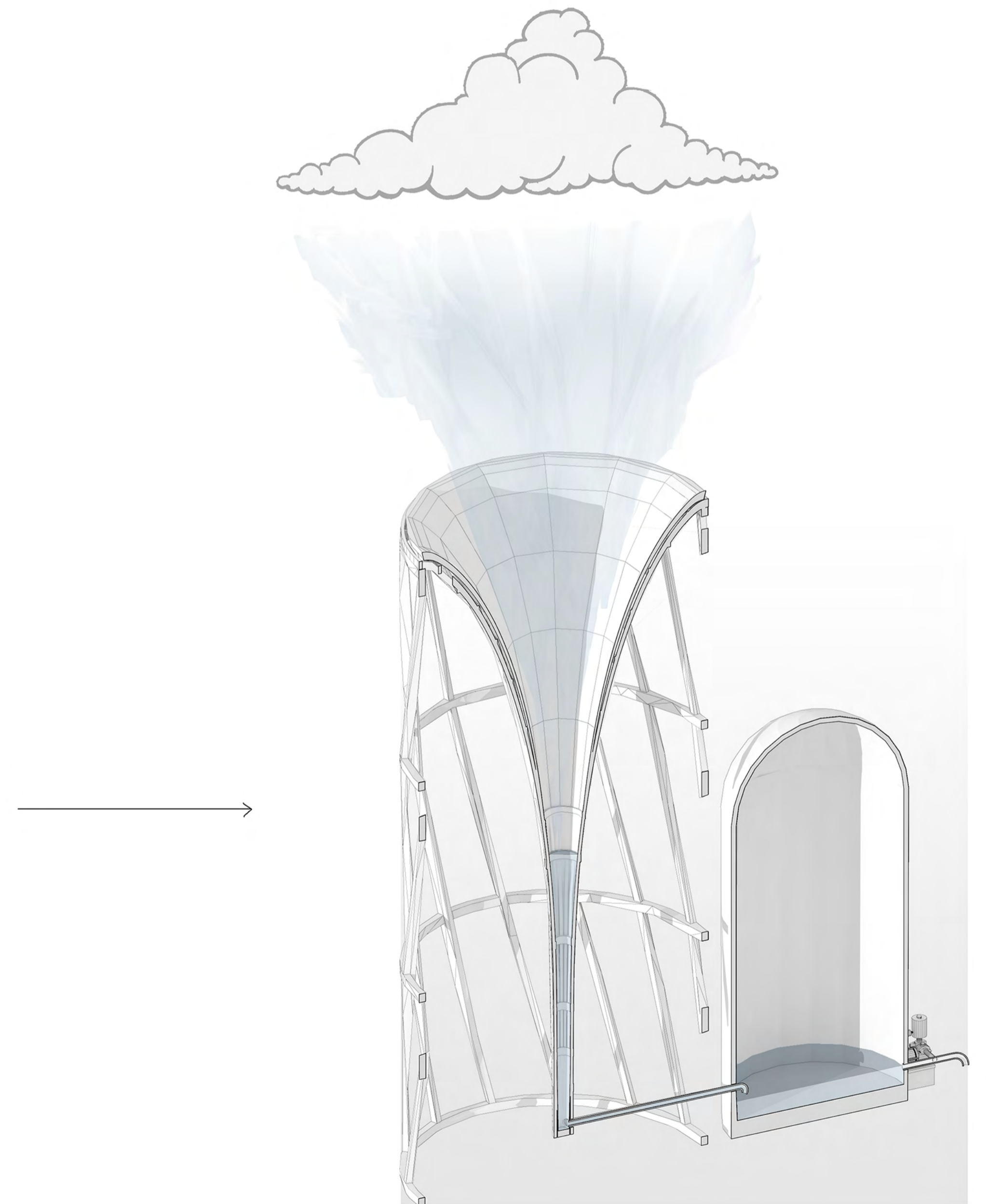
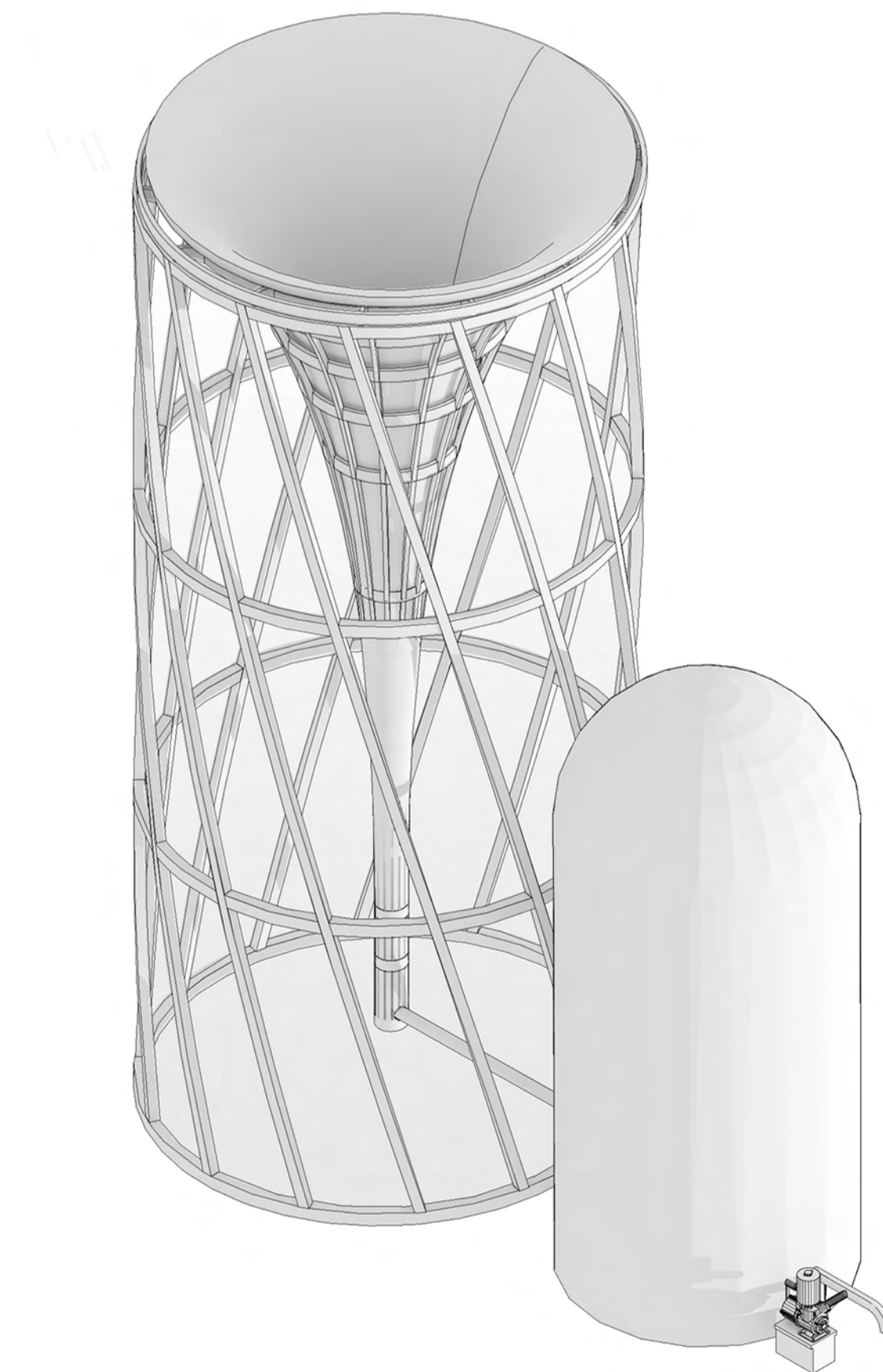
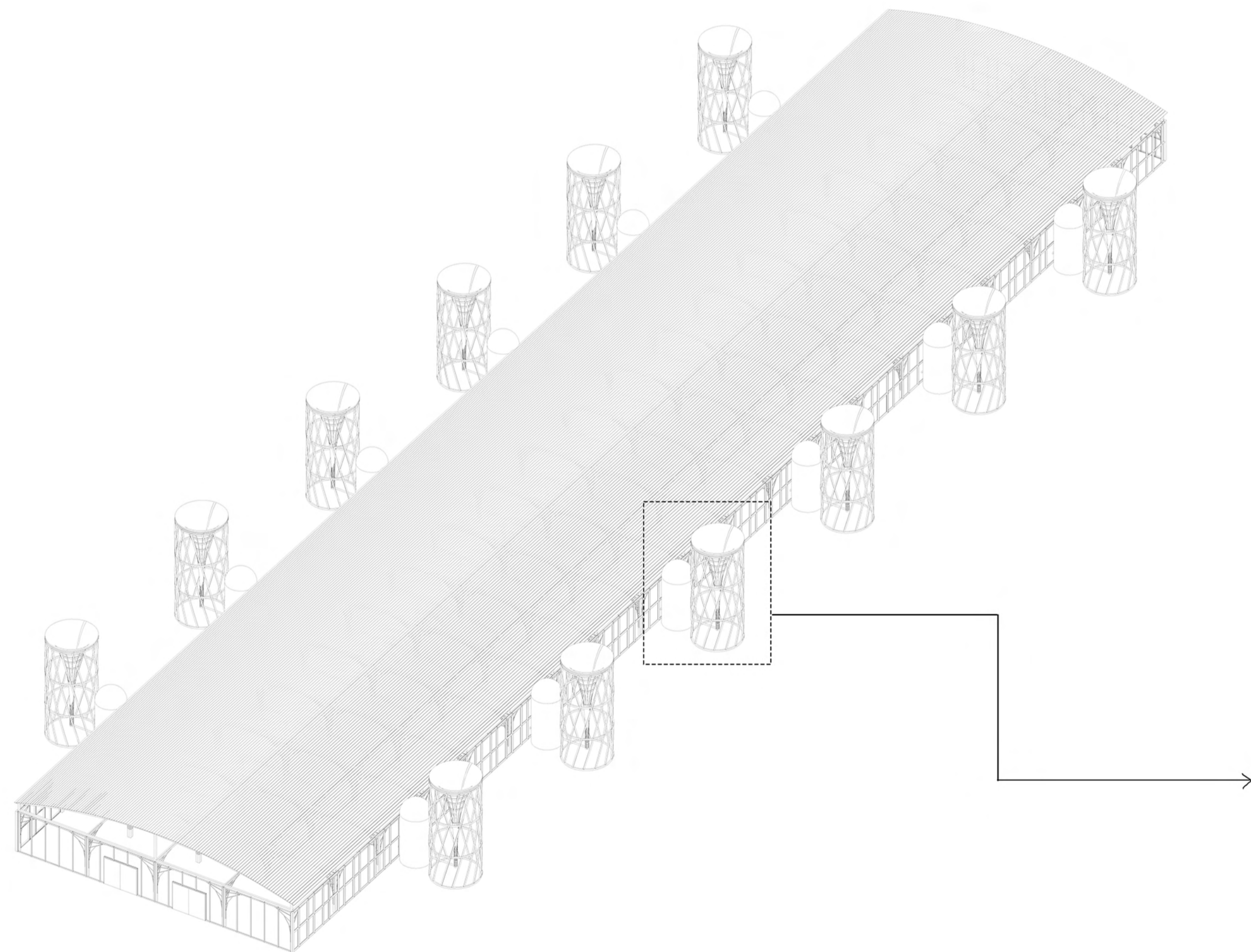
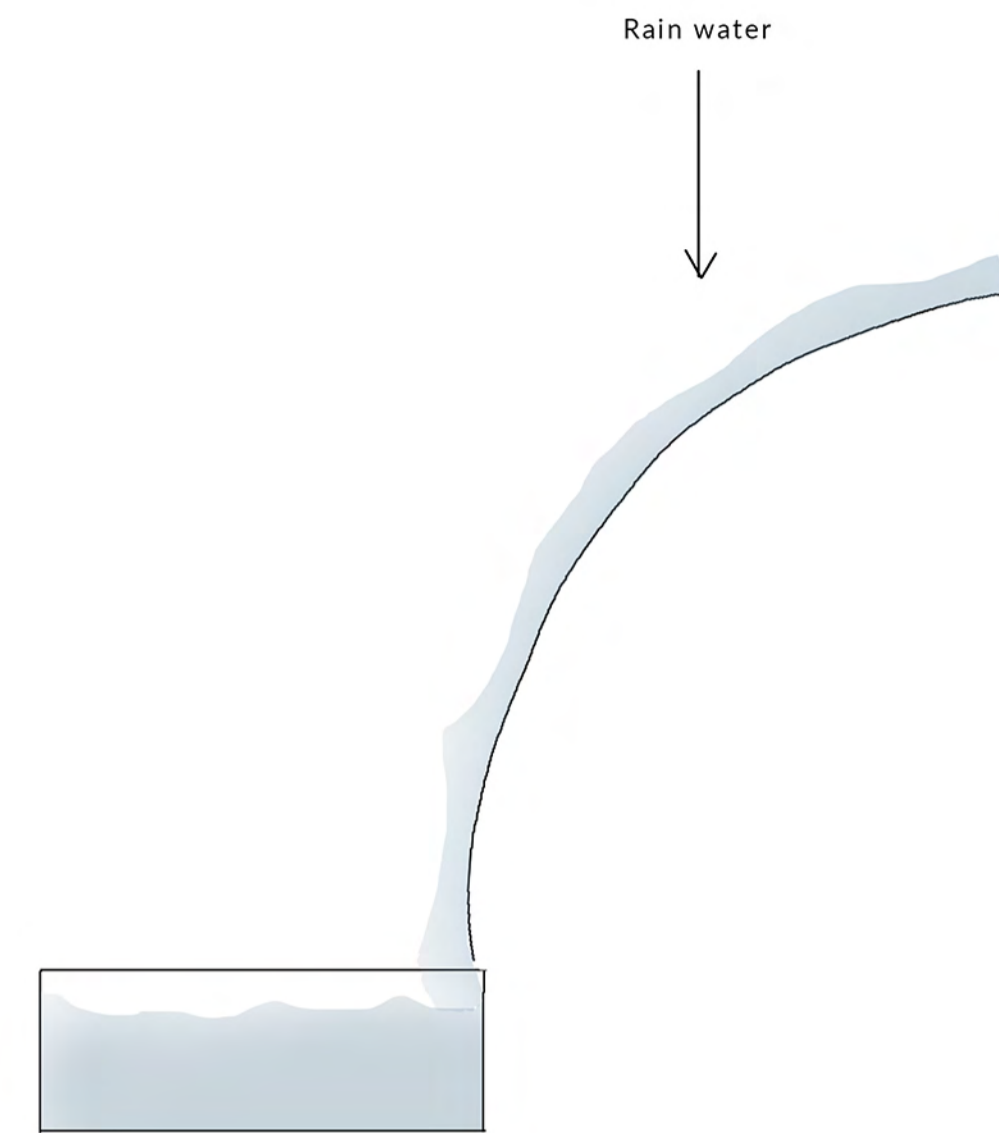
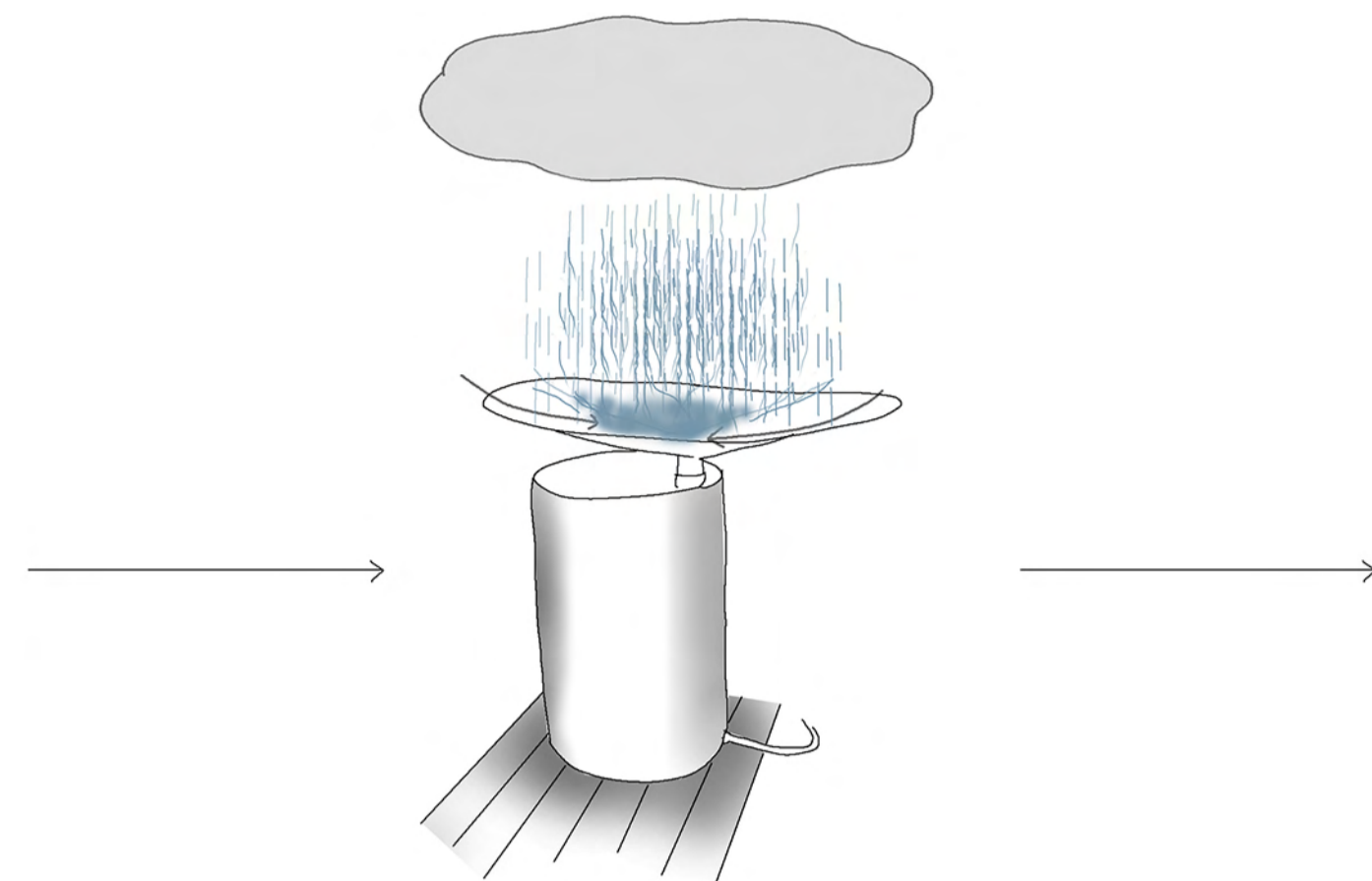


EXISTING  
NEW PROPOSED  
BUILT



**DESIGN.**  
RAIN WATER HARVESTING

Simple concept

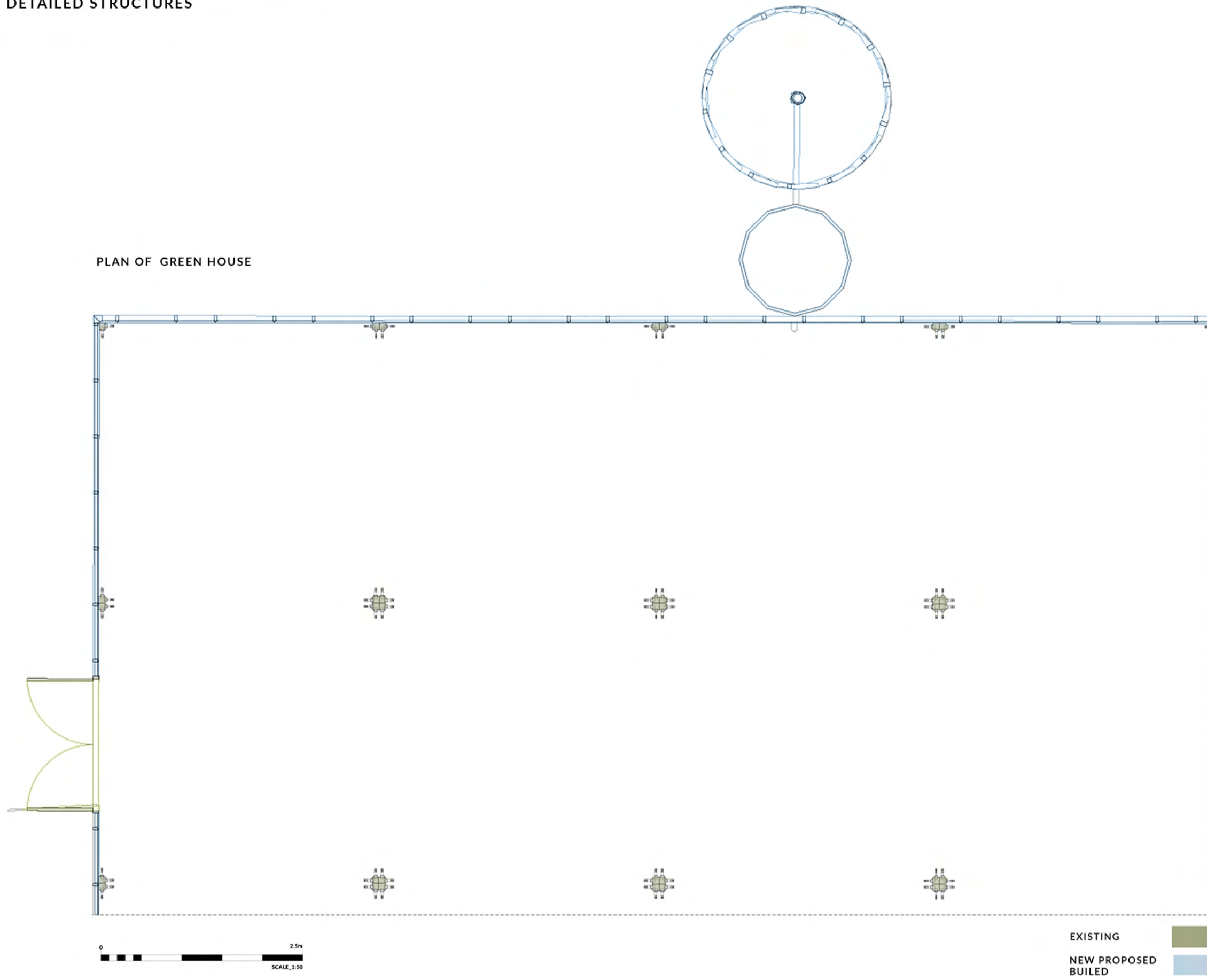


This is a way to get water a sustainable way this will help to grow crops and for agriculture as well as the farming.

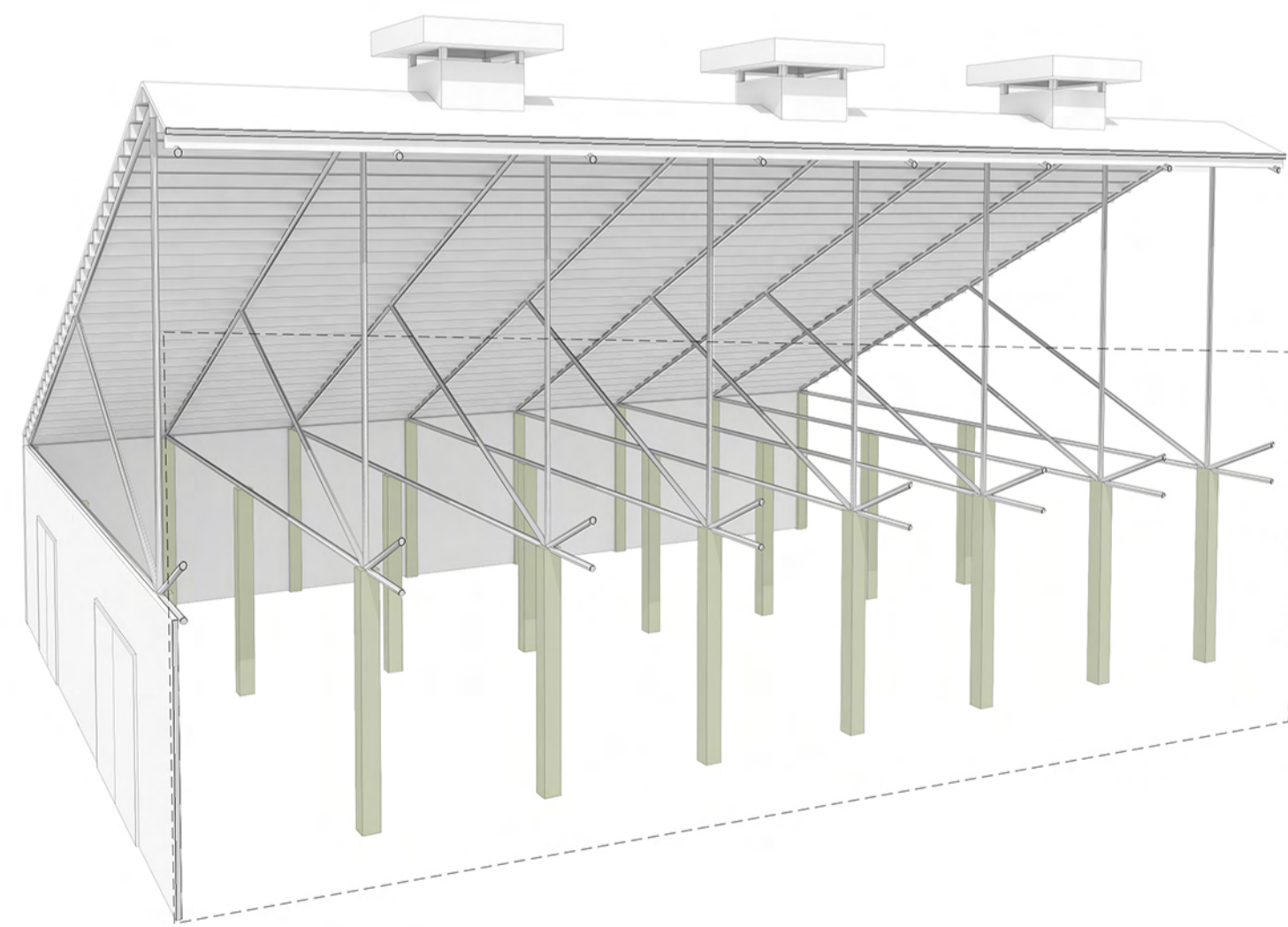
# DESIGN.

ITERATION 3 GREEN HOUSE CONVERSION  
DETAILED STRUCTURES

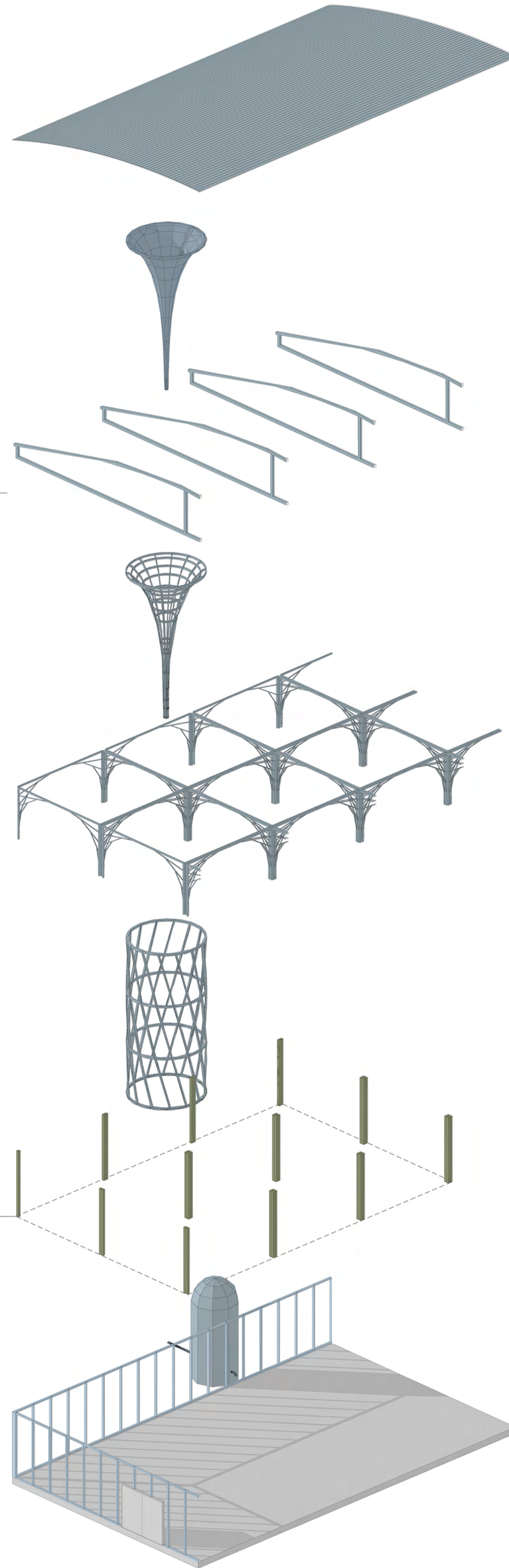
PLAN OF GREEN HOUSE



EXISTING STRUCTURE IN THE INDUSTRIAL CHICKEN SHED



This is the green house that has been converted from a industrial chicken shed the main existing structure still is still functional but everything else is not suitable for a green house. Here you can see the green existing structure that stayed the same in both proposed and existing structure.



EXISTING  
NEW PROPOSED BUILDED

PROPOSED STRUCTURE



**DESIGN.**  
ITERATION 3 GREEN HOUSE  
CONVERSION SECTION/RENDER



PROPOSED GREEN HOUSE DETAIL SECTION SECTION



PROPOSED GREEN HOUSE SECTION



EXISTING  
NEW PROPOSED  
BUILT



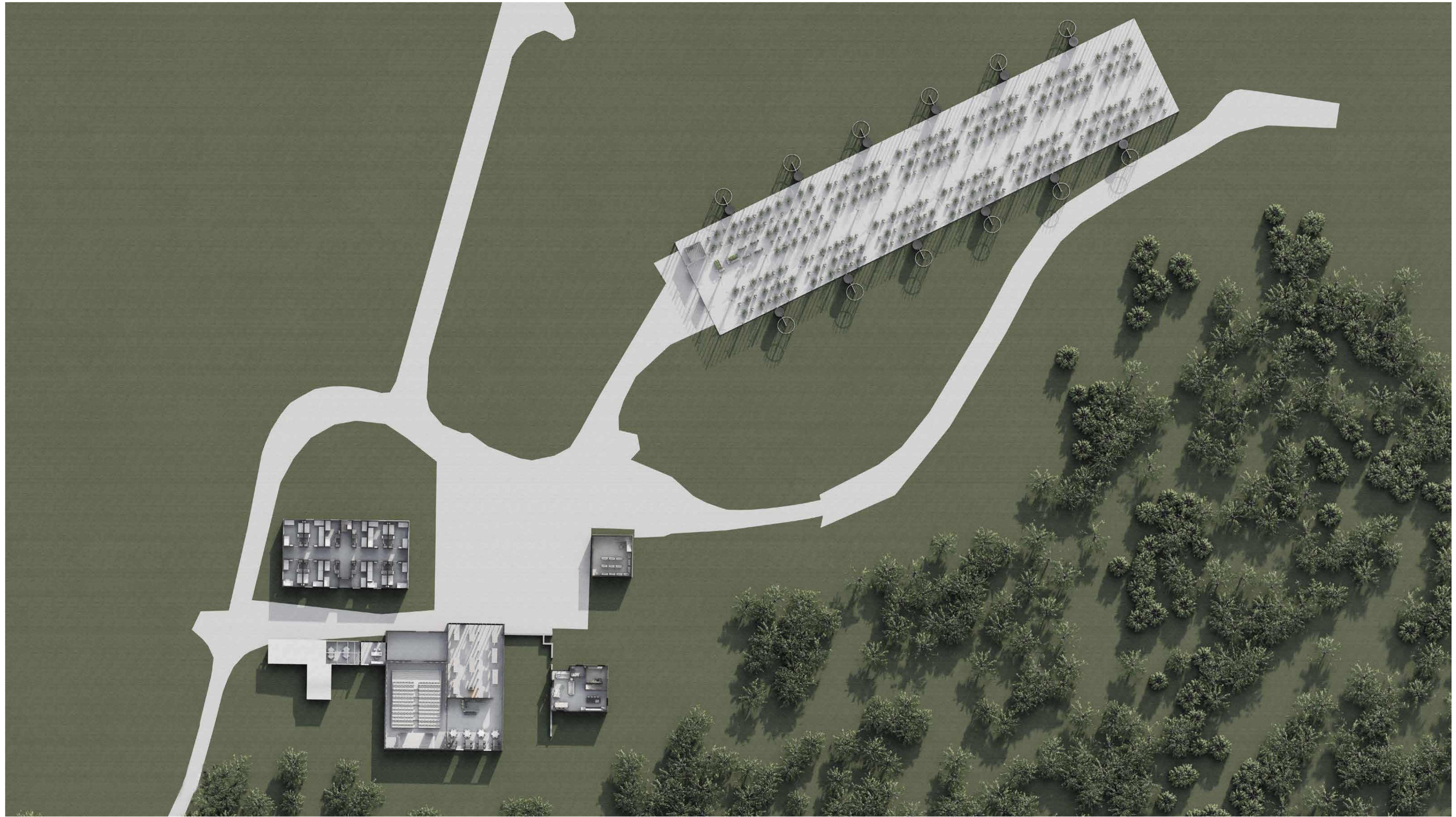






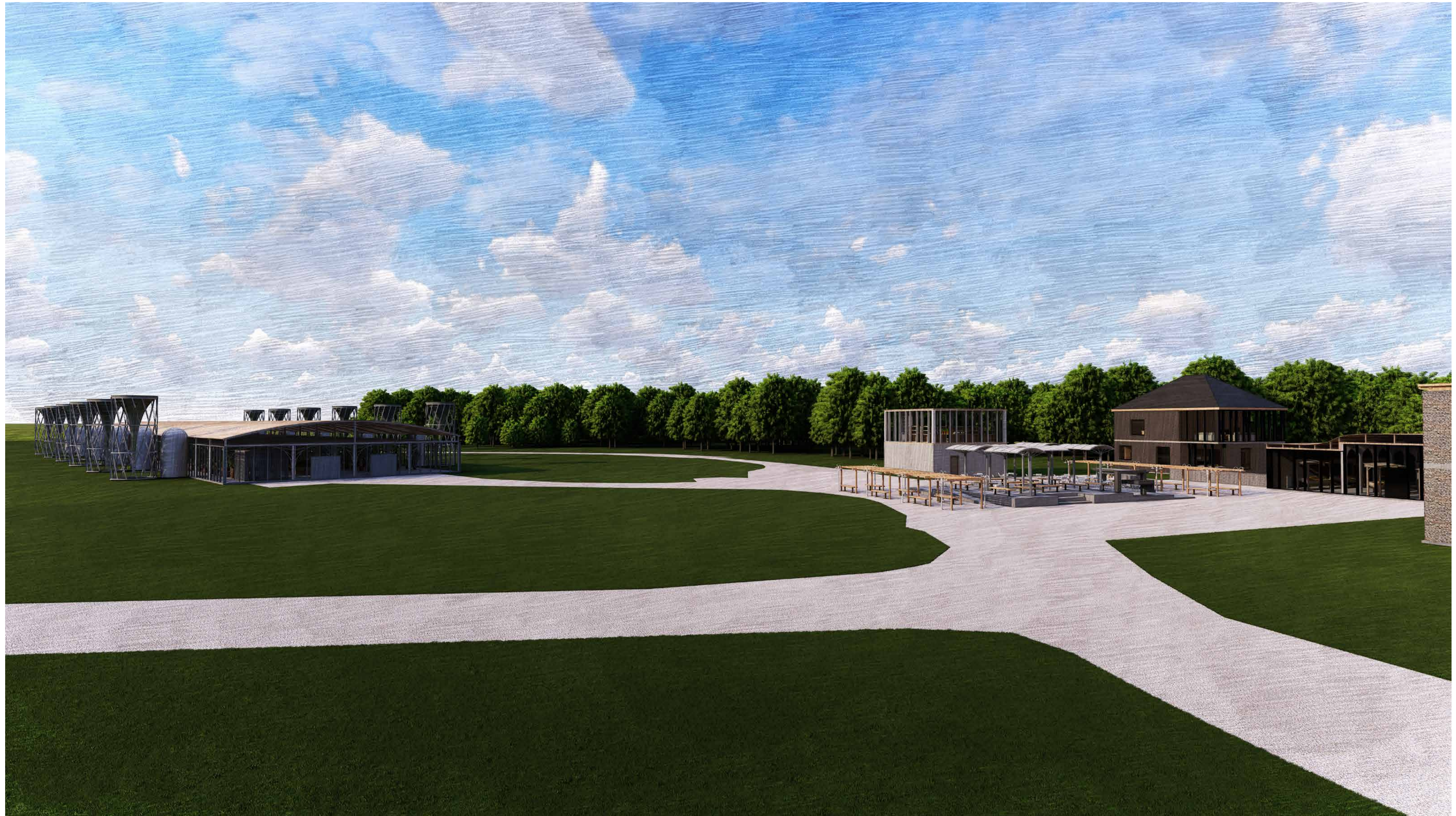
**VIEWS .**















In the heart of Berwick, a small town so quaint, stood a farm research institute, a beacon of light. Its mission, to nurture, to cultivate and grow, for the community of farmers, its knowledge would bestow.

Amidst emerald fields and the sun's golden rays, the institute blossomed, with dreams in its gaze. A symphony of seasons, it played its grand role, guiding farmers with wisdom, their challenges to console.

In the early morn's mist, the farmers would arrive, seeking guidance, solutions, as their hopes would thrive. The institute's experts, with hearts full of grace, shared their expertise, bringing smiles to each face.

Through verdant corridors and laboratories bright, ideas and innovations danced, like stars in the night. Experiments conducted, breakthroughs were made, in this hub of knowledge, where wisdom never would fade.

The soil whispered secrets, as hands worked the land, new methods were tested, with tender, caring hand. The institute's gardens flourished, an abundance so vast, from seeds of inquiry, a bountiful harvest was amassed.

But the institute's reach stretched far beyond the town, a bridge to the nation, it aimed to be renowned. Connecting Berwick to the UK, far and wide, a beacon of progress, with farmers' hopes as its guide.

In conferences and symposiums, voices would blend, from north, south, and beyond, the experts would attend. The institute's teachings would ripple and flow, empowering farmers, wherever they would sow.

Farmers from distant valleys, from mountains and moors, received knowledge, like rain, on their fertile floors. Berwick's farm research institute, a beacon so grand, united the nation, lending strength to each hand.

And so, the story unfolds, this poetic tale, of a farm research institute, where dreams set sail. In Berwick, it stood, a testament to community, guiding farmers forward, with love and unity.