



**MARCH
STUDIO 1
AI715.**

STUDIO URBAN FIELD LAB: RURAL REVOLUTION
THE BEAUTY OF FARMING

INTRODUCTION.



INTRODUCTION RURAL ISSUES UK :

I think when you start looking at the issues that the rural context you start finding problems such as housing and fuel poverty. The poor quality of housing is significantly more poverty than most rural areas are creating the well-being and sustainability of communities. I will be using the potential of farming to connect and create a revolution to the rural environment its important to be able to use something that prominent in the rural environment as a method to change it .

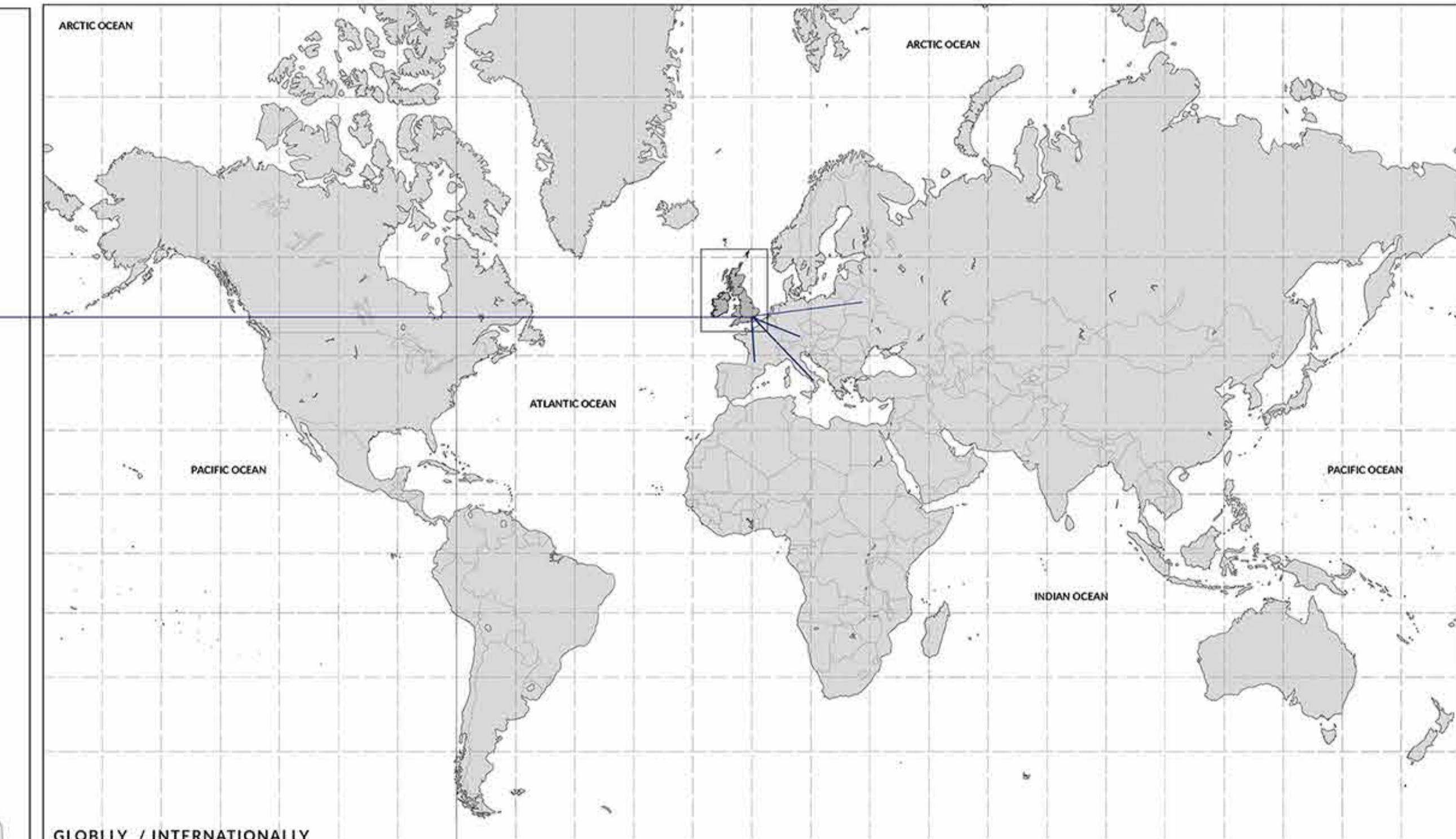
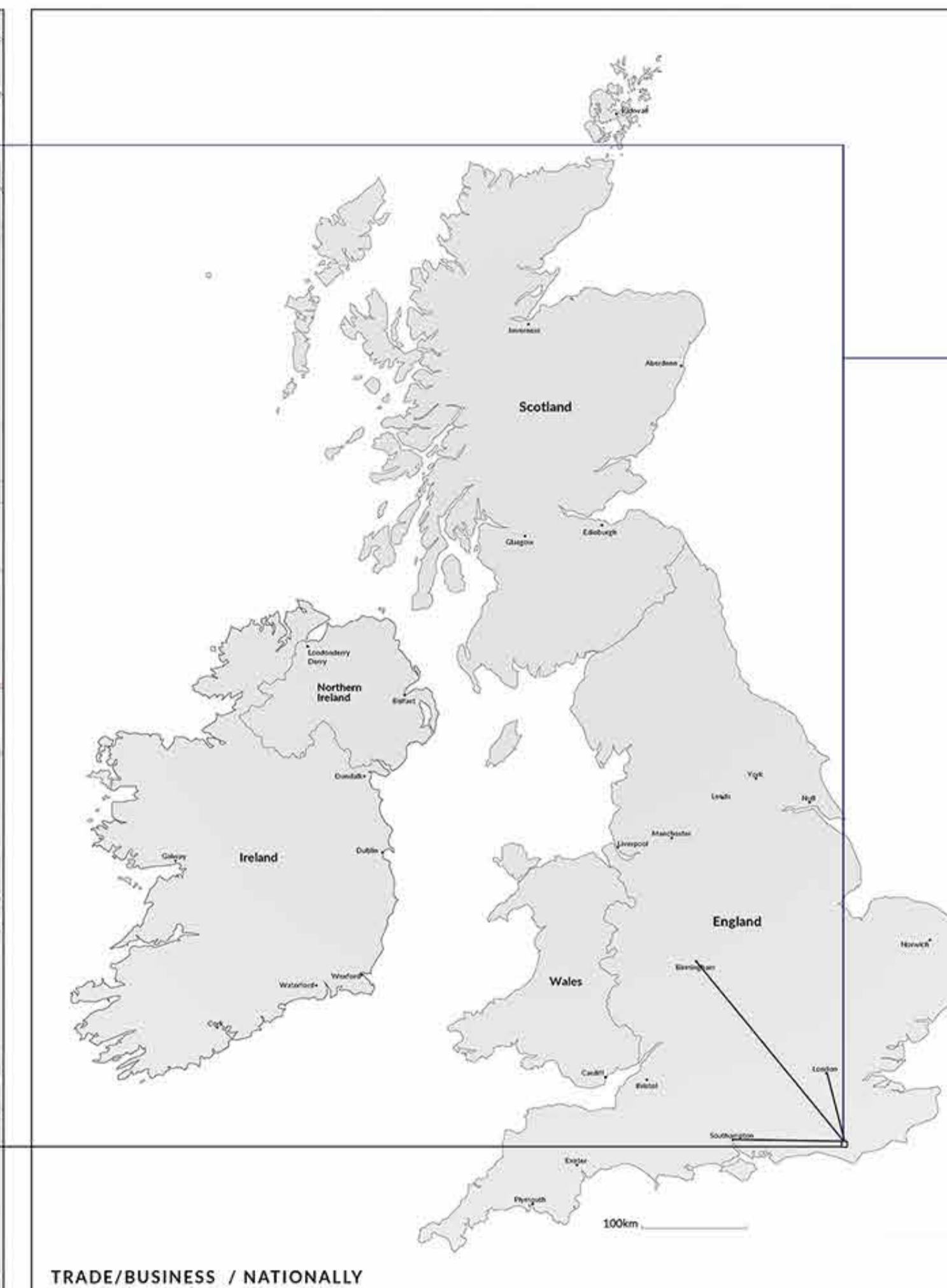
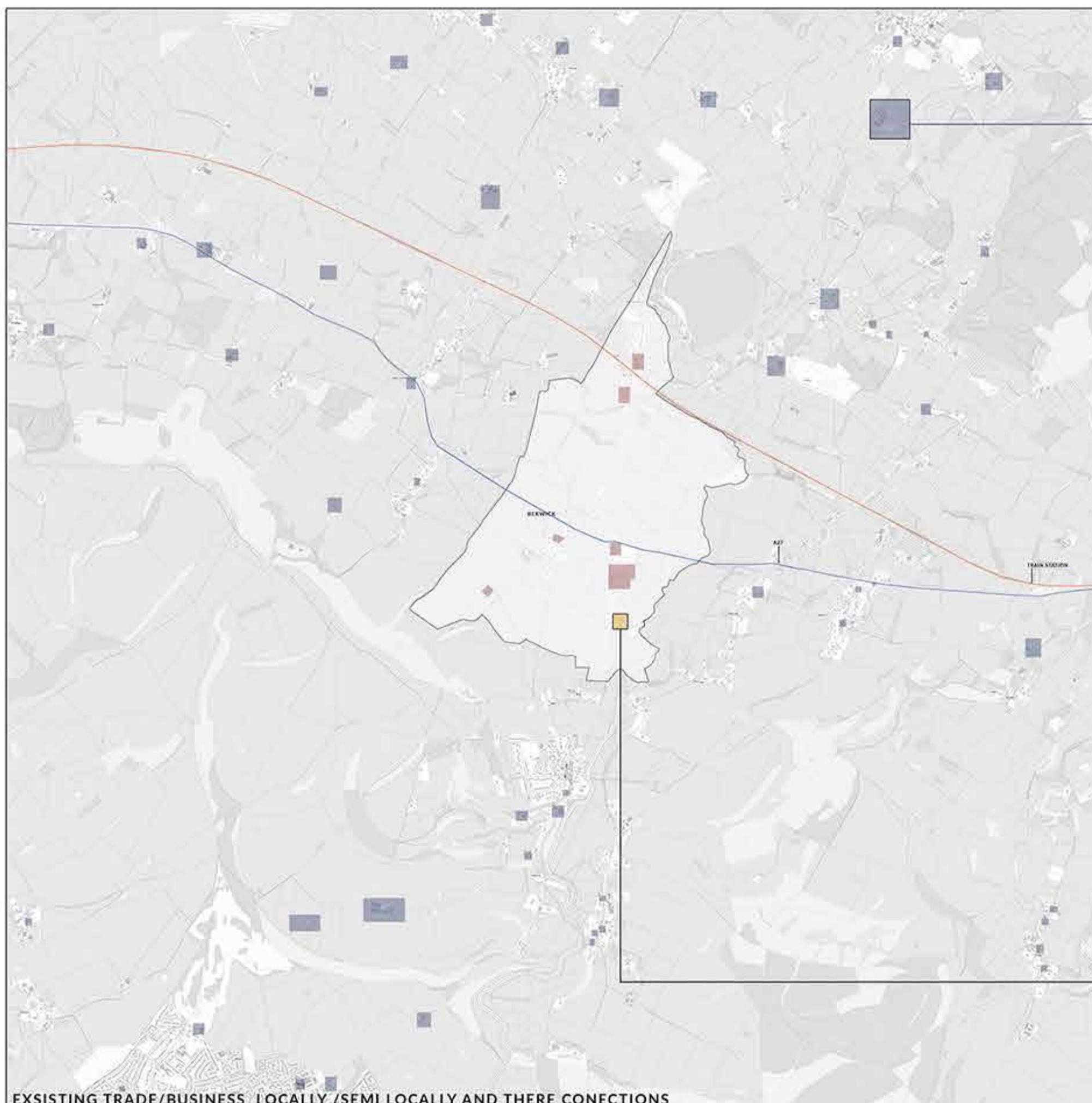


RESEARCH .

RESEARCH AND MAPPING ABOUT
CONNECTIVITY AND THE EXISTING
FARMS IN BERWICK

MAP 1.

TRADE CONNECTIONS LOCALLY,
NATIONALLY AND
INTERNATIONALLY



LOGGING ARABLE SHOPPING STORE PETROL STATION SEEDS AGENT FARM STEEL WORKS CARPENTER MANUFACTURING PUBS SICK BOI - RETAIL CLOTHING COMPANY BROGUES RESTAURANTS GOLF CLUBS MUSEUMS WINE CELLARS	■ LOCAL TRADES/BUSINESS BERWICK ■ SEMI LAOCAL TRADES/BUSINESS BERWICK ■ NATIONAL TRADE (STEELWORKS)
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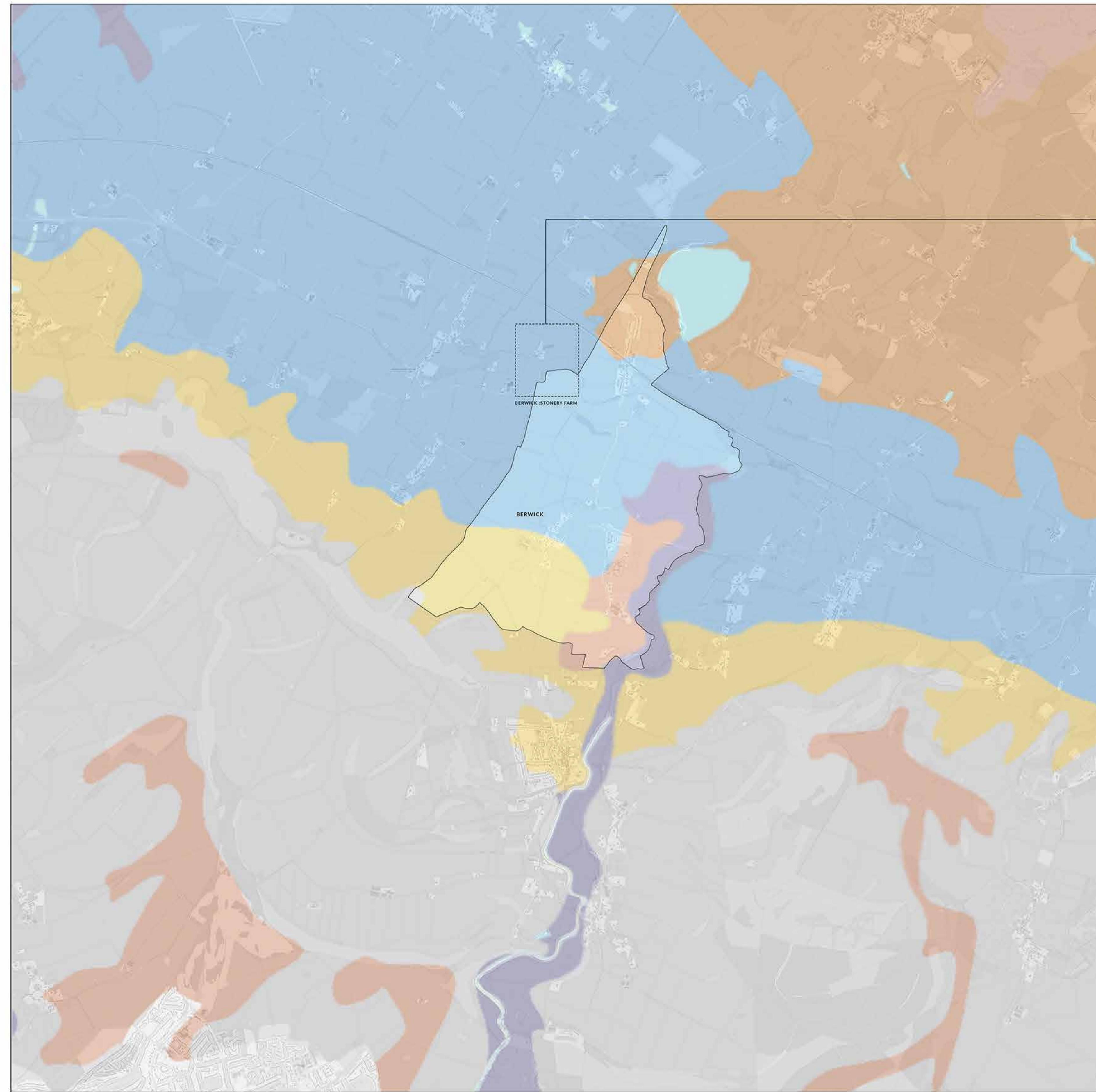
This map was looking at all the potential connections between all the different scales: going from nationally to globally and then looking at the connections between all the different business existing in Berwick. Then researching how the business connect the site to the outside world. As it turns out there aren't many businesses that connect Berwick to other places outside the uk .

MAP 2.

SOIL MAP (WRB)

NSRI World Reference Base WRB

Arenosol
Cambisol
Fluvissol
Gleysoil
Histosol
Leptosol
Luvicoll
Phaeozem
Planosol
Podzol
Riposol
Stagnosols
Umbrisol
Unsurveyed/Urban
Water bodies



Stagnosols

A Stagnosol in the World Reference Base for Soil Resources (WRB) is soil with strong mottling of the soil profile due to redox processes caused by stagnating surface water.



They are developed in a wide variety of unconsolidated materials like loamy deposits and physically weathered siltstone. Stagnosols occur on flat to gently sloping land in cool temperate to subtropical regions with humid to perhumid climate conditions.

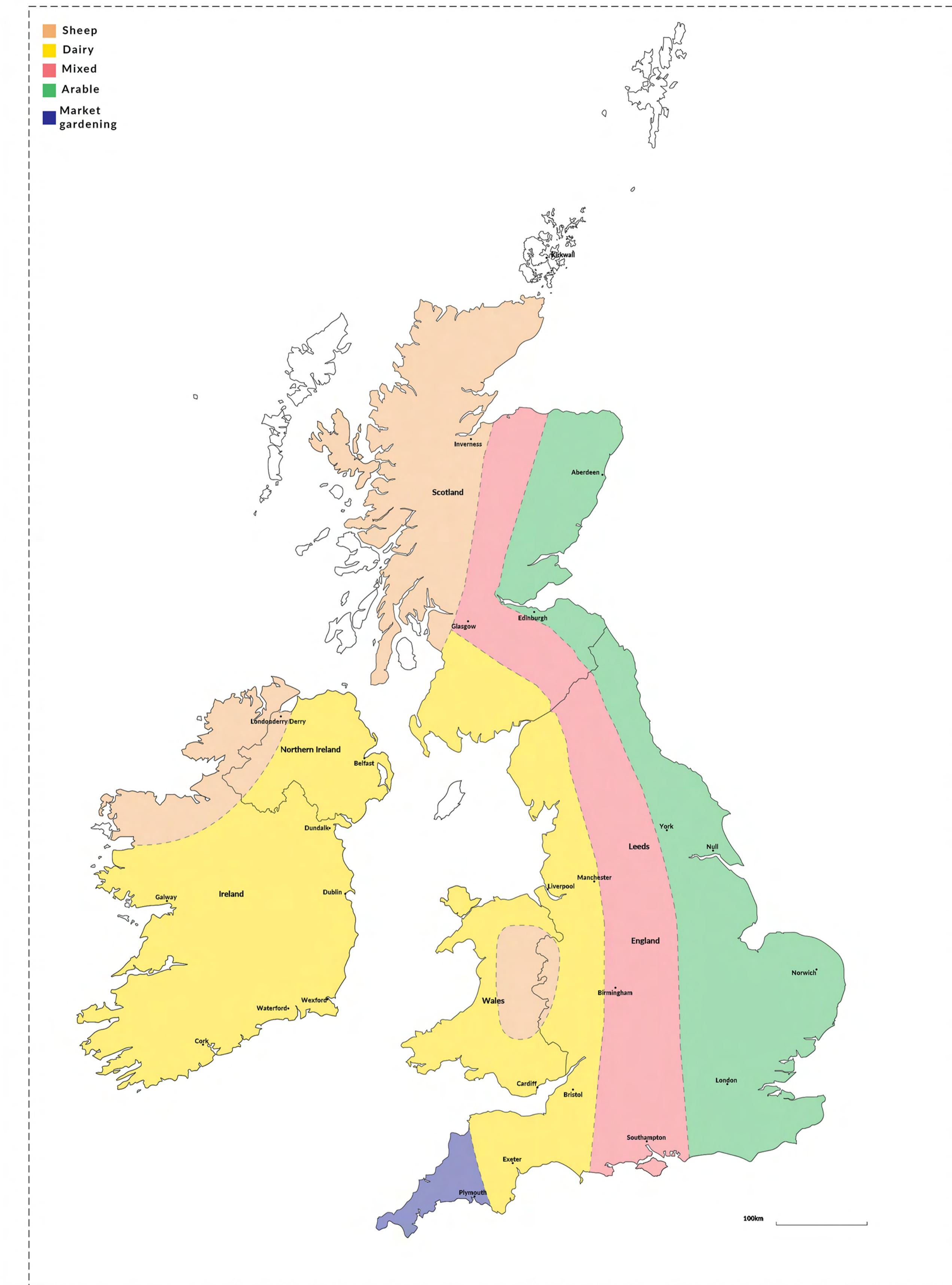
Lomay is a type of soil that actually is ideal for farming so its a good precedent to think about soil research for agriculture.

BERWICK : STONY FARM



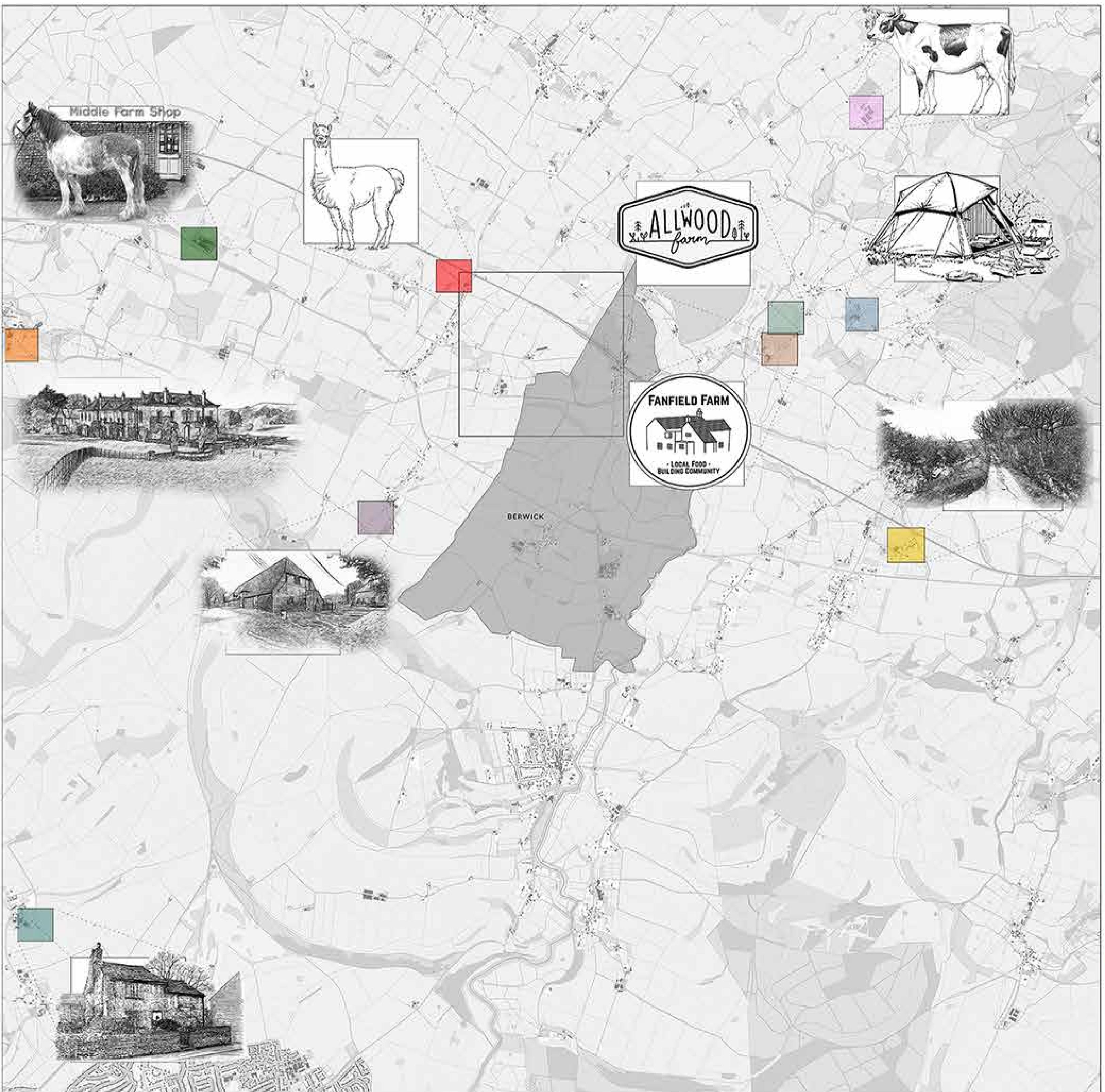
MAP 3.

TYPES OF FARMING IN THE UK



MAP 4.

EXISTING LOCAL FARMS



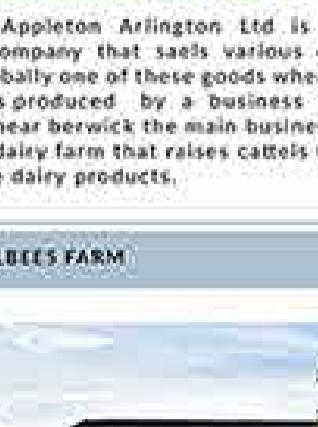
LOCAL FARM SURROUNDING BERWICK

W & A APPLETON ARLINGTON LTD



W & A Appleton Arlington Ltd is a limited company that sells various of goods globally one of these goods where products produced by a business in berwick/near berwick the main business was a dairy farm that raises cattle to distribute dairy products.

JIJIE'S REST ALPACA FARM



Jijie's Rest Alpaca Farm managers our farm according to the principles of natural, welfare friendly farming. They strive to provide a totally chemical and pesticide-free haven. They do not place profit before the wider environmental needs and they also have invested in developing a vibrant ecosystem that can sustain a wide variety of plant and animal life for its own sake.

WALTON H.R.A.L



This farm hasn't got much known about it there's only a few descriptions of some of the things produced.

DESCRIPTION	CROPS
Farmers	Agricultural Services
Farming	Farming Crops
Agriculture	Animal Husbandry

MIDDLE FARM



Located at the South Downs in Sussex, Middle Farm is a 625 acre working family farm. There six generations of farming have given them a unique insight into British food production. The highest standards of animal welfare and environmental care show in there products.

WHAT THEY DO:

- Farming
- Open Farm
- Tea Room
- School Visits

FIRE FARMS LTD



As an outstanding privately owned country house in Sussex that dates from the time of Henry VIII, but which was substantially remodelled during the Georgian period. Firle Place is very much a family home which provides the perfect setting to house an exemplary collection of works of art, fine furniture and porcelain of national significance.

Incorporating several villages and farms spread over rolling hills, the Firle Estate, in the heart of the magnificent South Downs National Park, is just 60 miles from London. Firle illustrates a rare cultural continuity with an unusually intact estate and a thriving rural community. Central to the atmosphere is Firle's diverse and culturally rich community with many artists, craftsmen and local businesses. As well as magnificent walks, bike rides and country pursuits, the Estate has many places to stay, eat and drink.

THE NORTON FARM



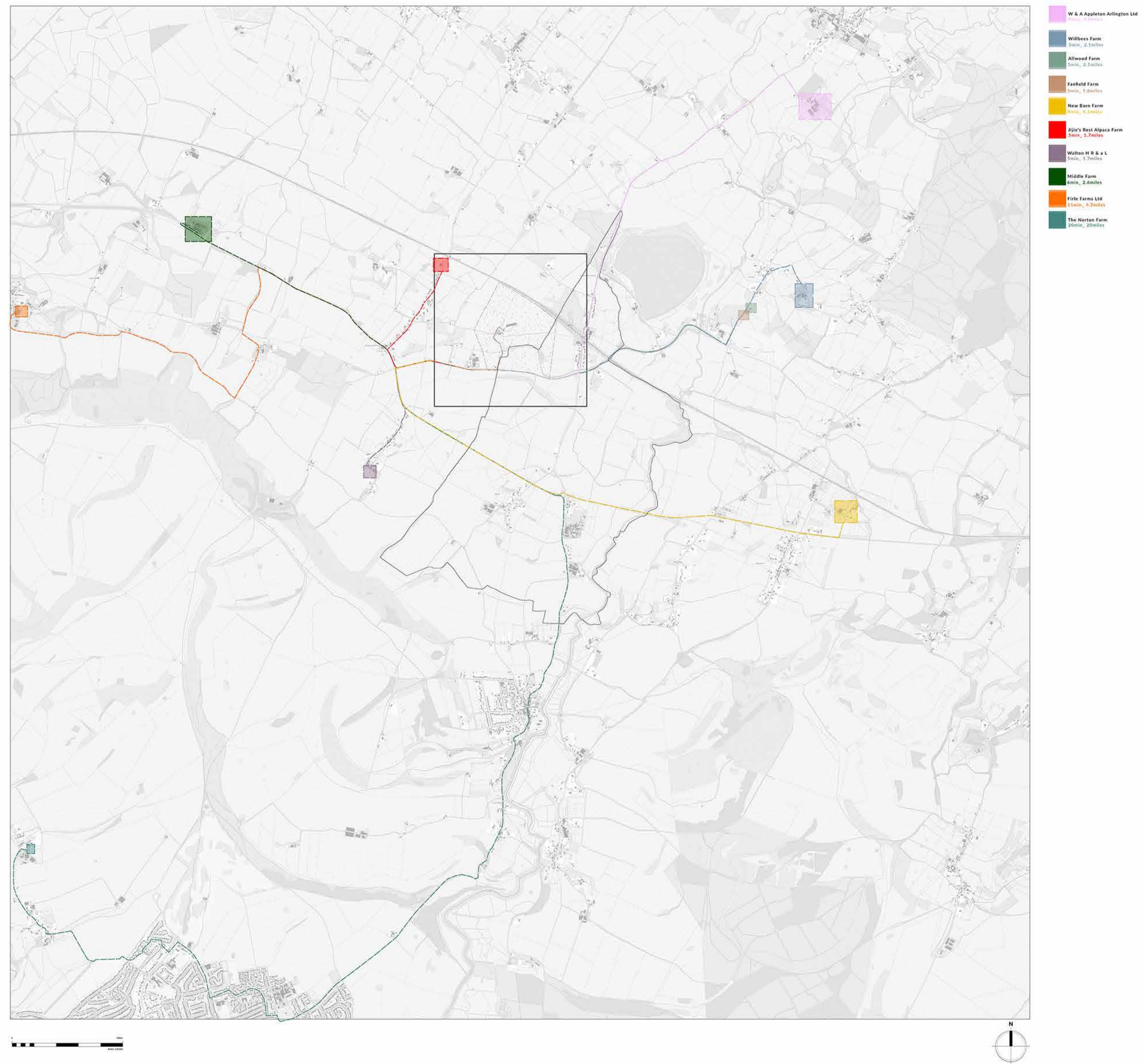
The cottages are in the peaceful rural hamlet of Norton on a 1,300-acre farm. Norton is an ideal location for touring the South East.

Norton Farm is situated within the South Downs National Park, close to the coast between Brighton and Hove. The Farm is home to the Norton herd of cattle, they also have a large flock of sheep.

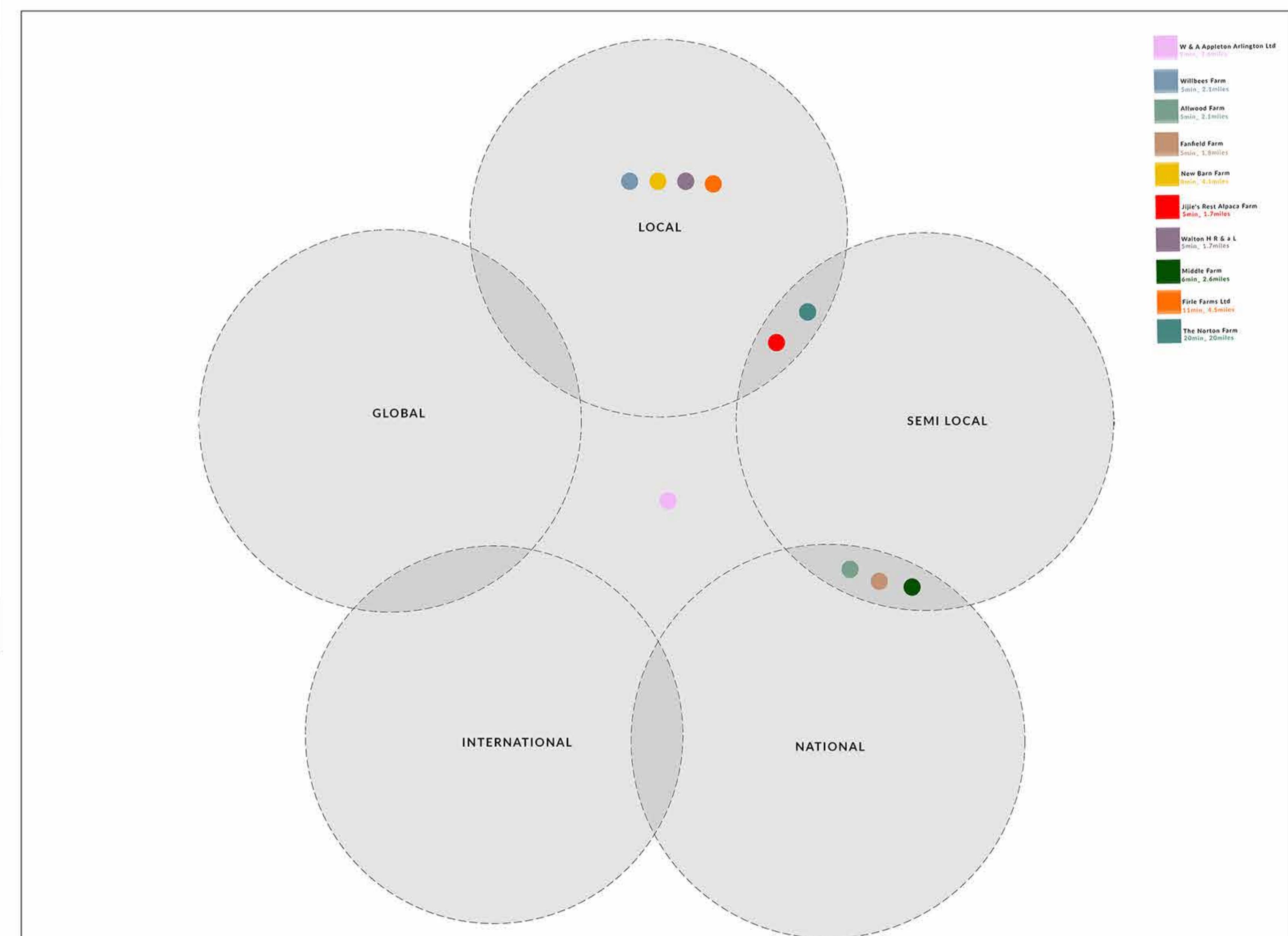
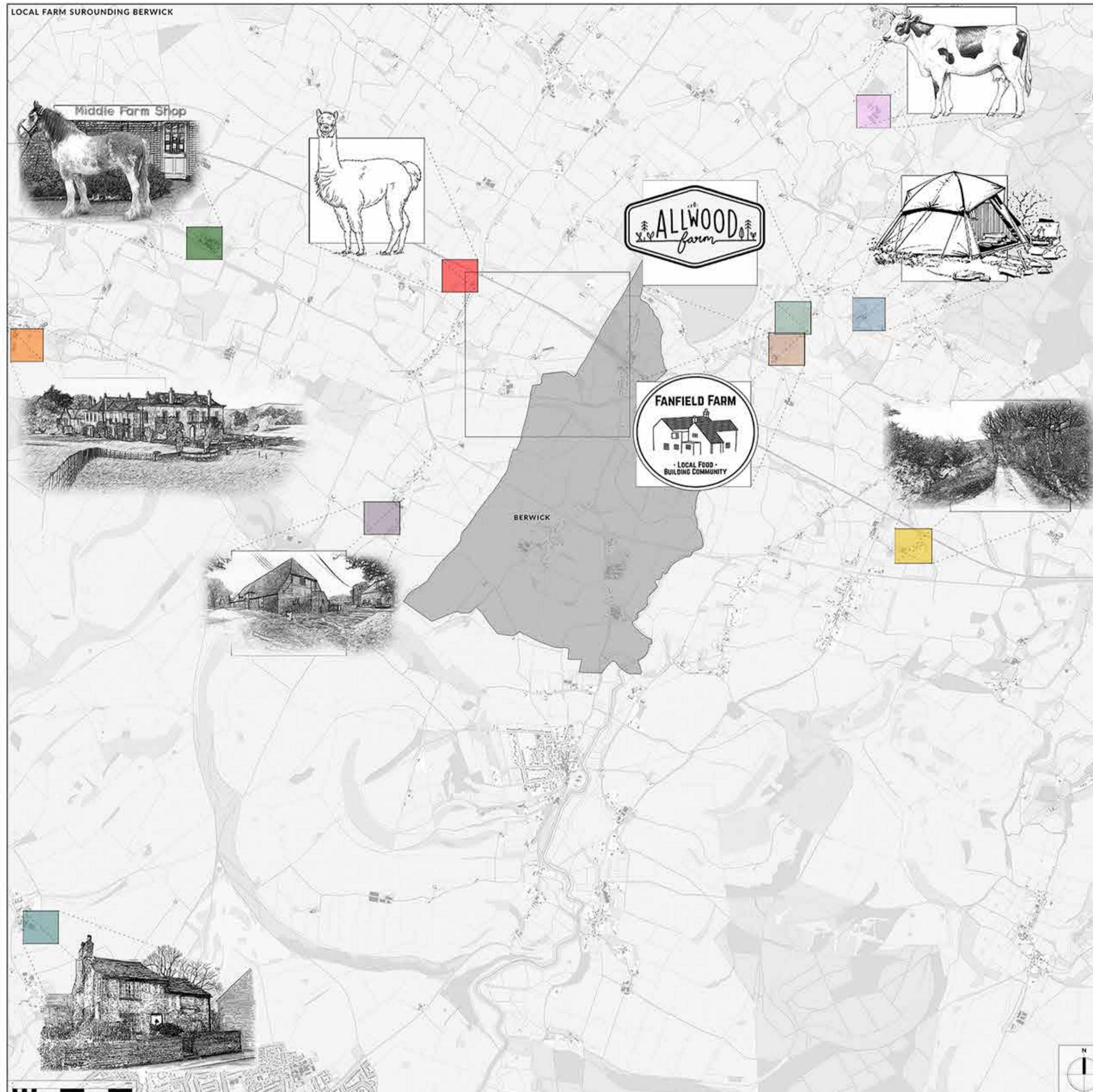
This place also where people can stay in a cottage to enjoy the country side.



MAP 5.
EXISTING LOCAL FARMS
AND THE DISTANCES TO
THE SITE



MAP 6.
CONNECTIONS



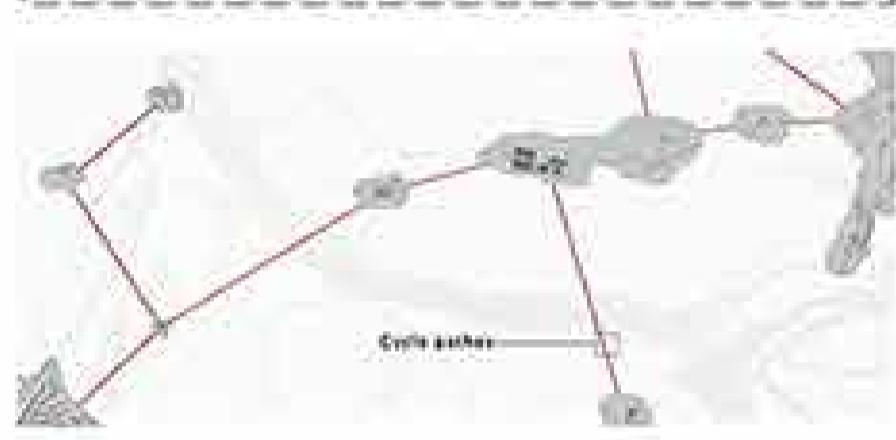
Define what the existing farms local semi local international or global

RESEARCH .

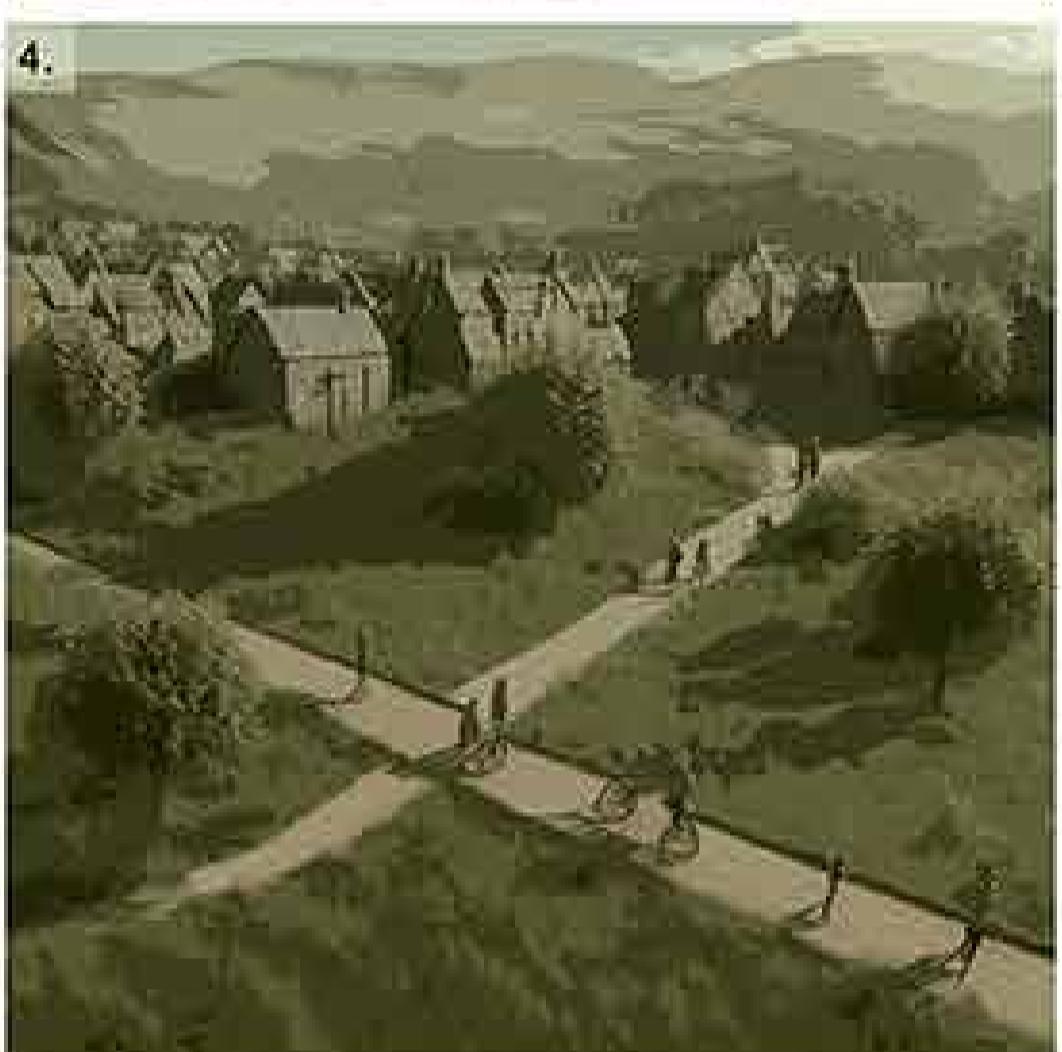
PROPOSING A NEW NETWORK
THAT CONNECTS PEOPLE IN BER-
WICK AND FURTHER CONNECT ALL
THE EXISTING FRAMES .

PROGARM.

GROUP STRATEGY PROPOSAL
CONNECTIVITY NETWORK

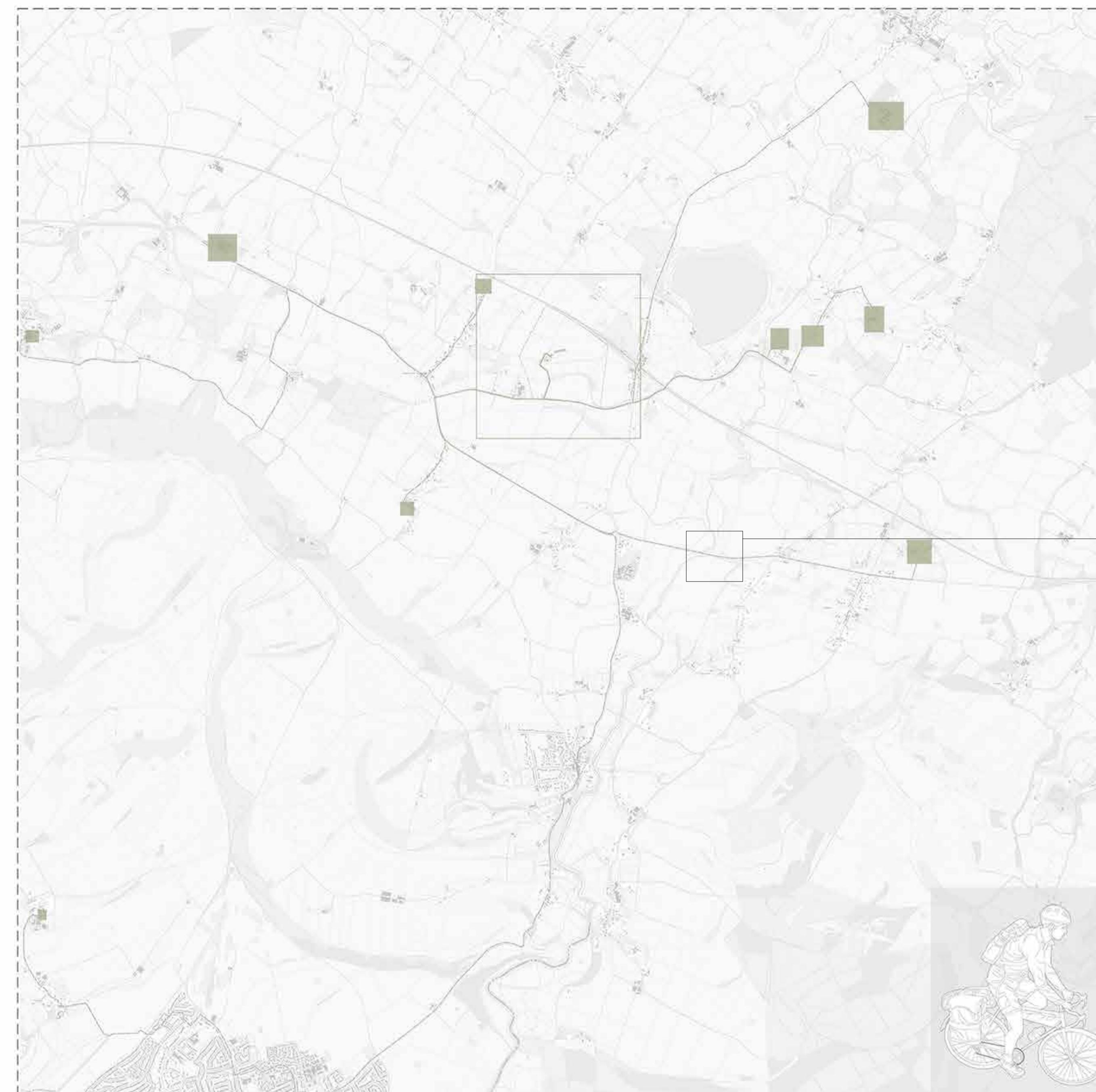


This is the green strategy that shows the connectivity strategy between all the settlements in the area. The network will use a by cycle - a green cycle path that will cross over all other tracks to start becoming connectivity. It won't only create connectivity with cycles but they can become foot paths as well as this space can be accessed by people walking. This can be shown in some of the foot paths.



PROGARM.

CONNECTIVITY NETWORK
BETWEEN FARMS



This is the strategy that shows the connectivity between all the existing farms, to create a new under lying connection in berwick. This is a map shows all the roots from the existing farms.



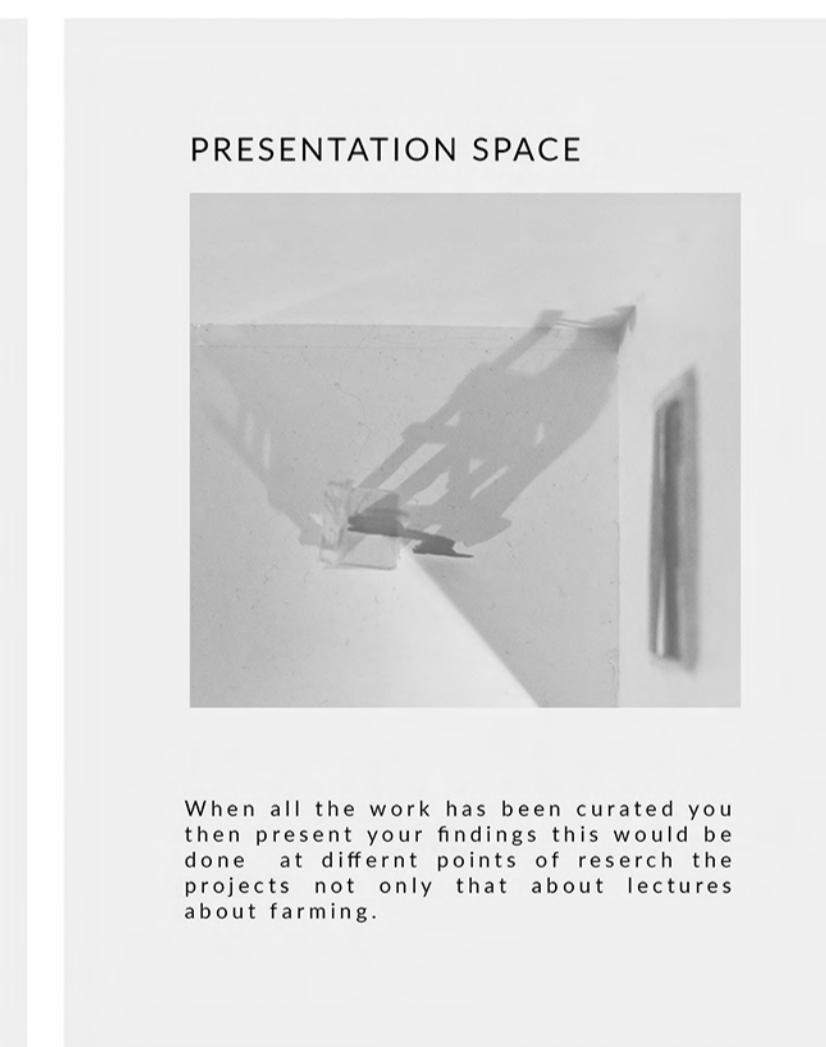
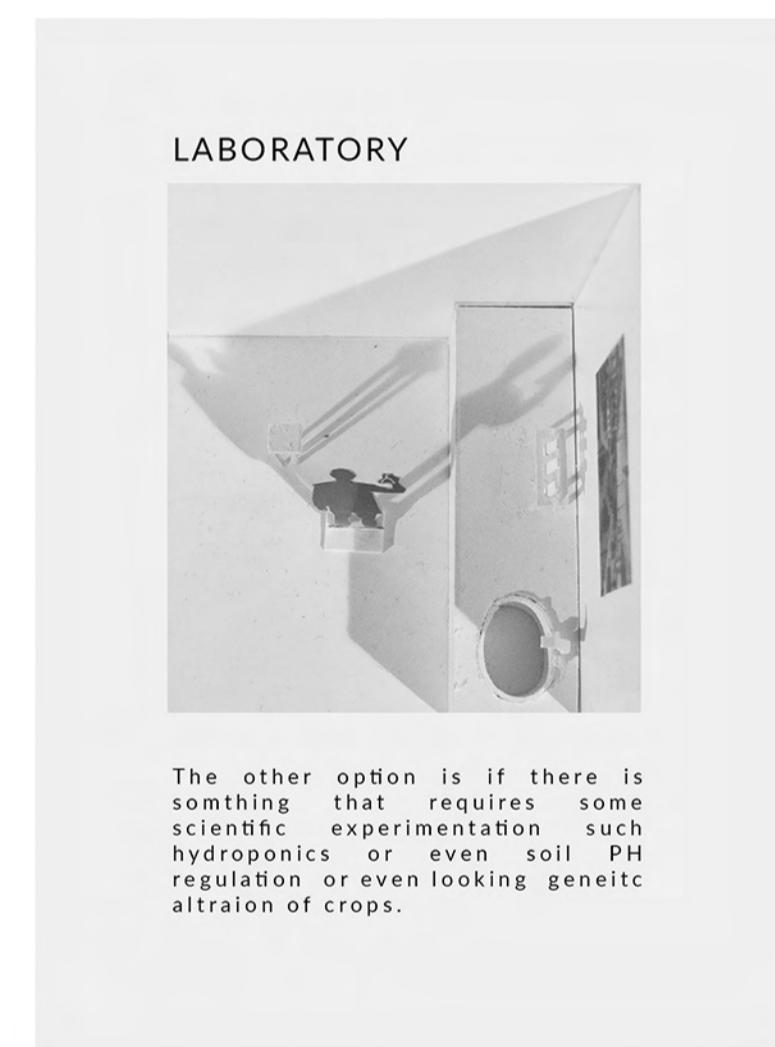
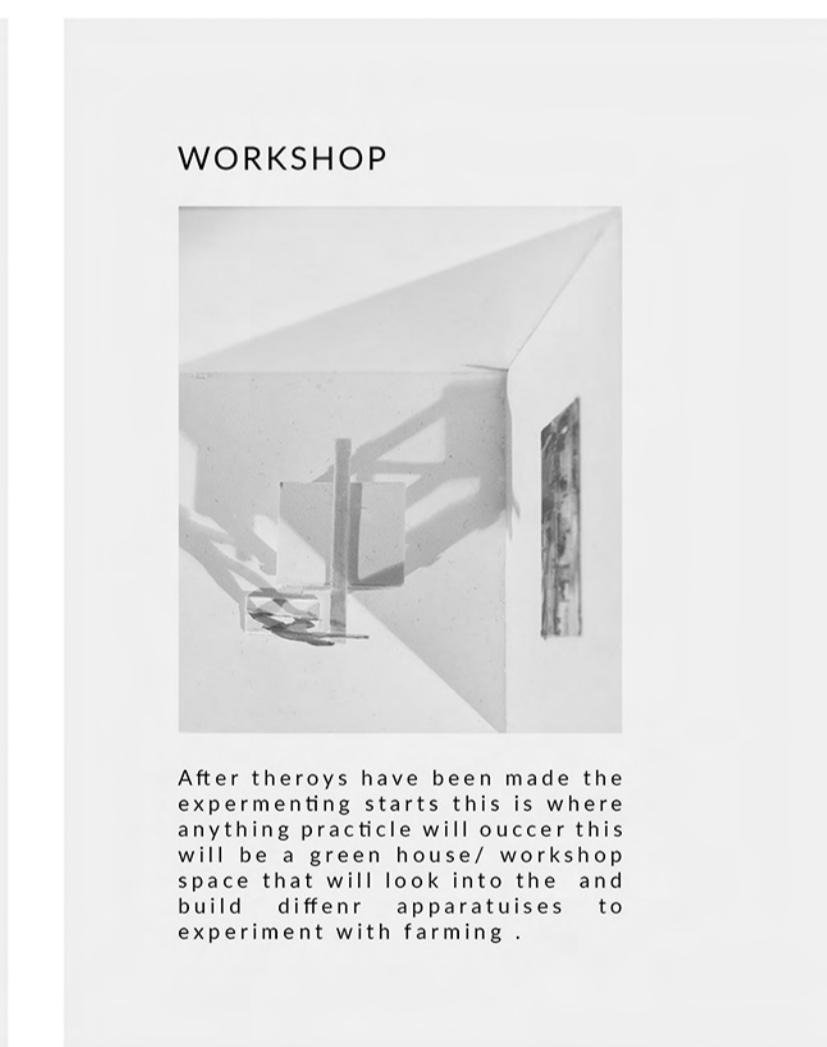
This how the wooden cycle path might look in some of these connections.

PROGRAM.

PROGRAM PROPOSALS AND A FINAL PROGRAM /RESEARCH FOR FARMING AND WHAT WILL BE FARMED

PROGRAM.

SPACIAL PROGRAM



PROGRAM.

PROGRAM ON SITE



5. Archive Space



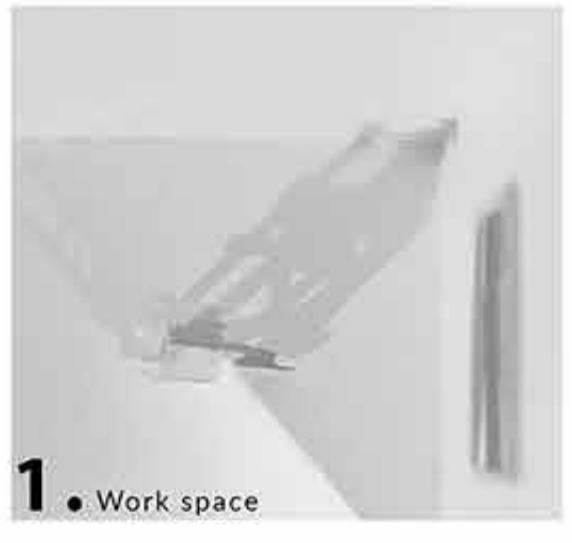
4. Presentation Space



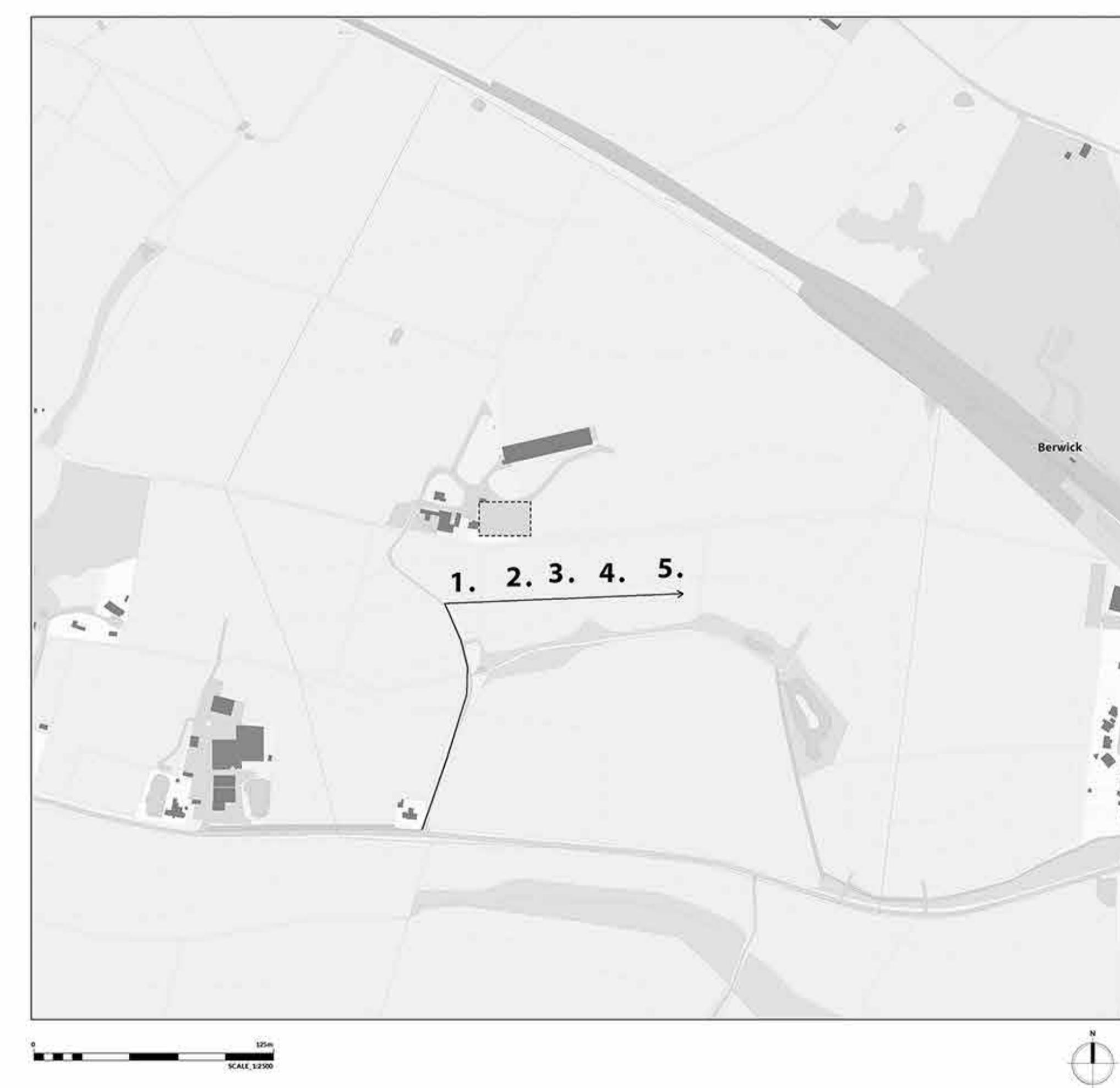
3. Laboratory



2. Workshop



1. Work space



PROGRAM.

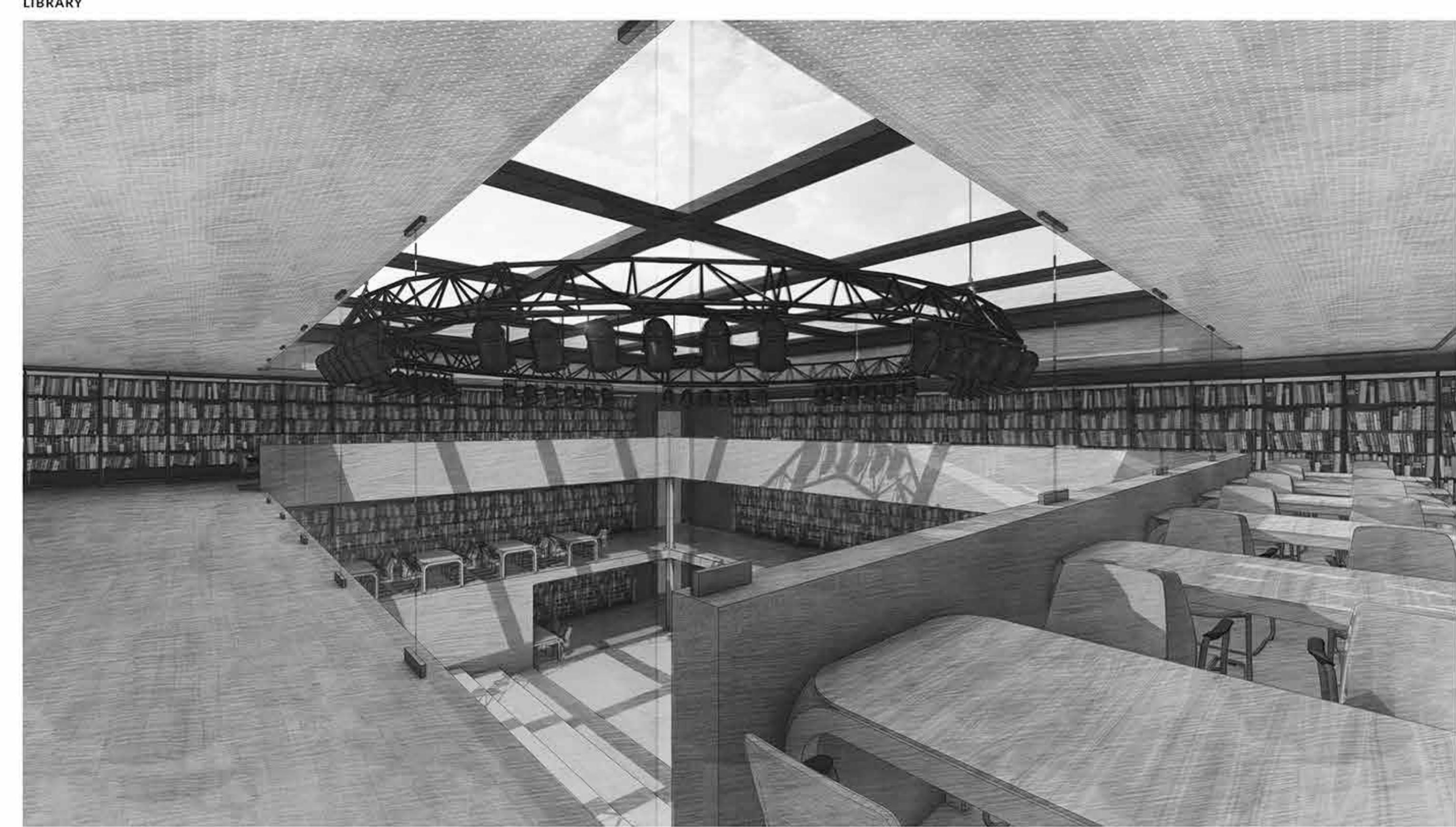
INITIAL PROGRAM IDEA



PRESENTATION SPACE



LIBRARY



PROGRAM.

INITIAL PROGRAM IDEA



5. Archive Space



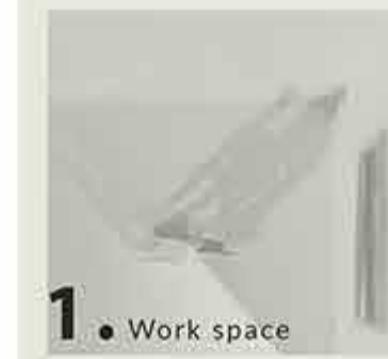
4. Presentation Space



3. Laboratory



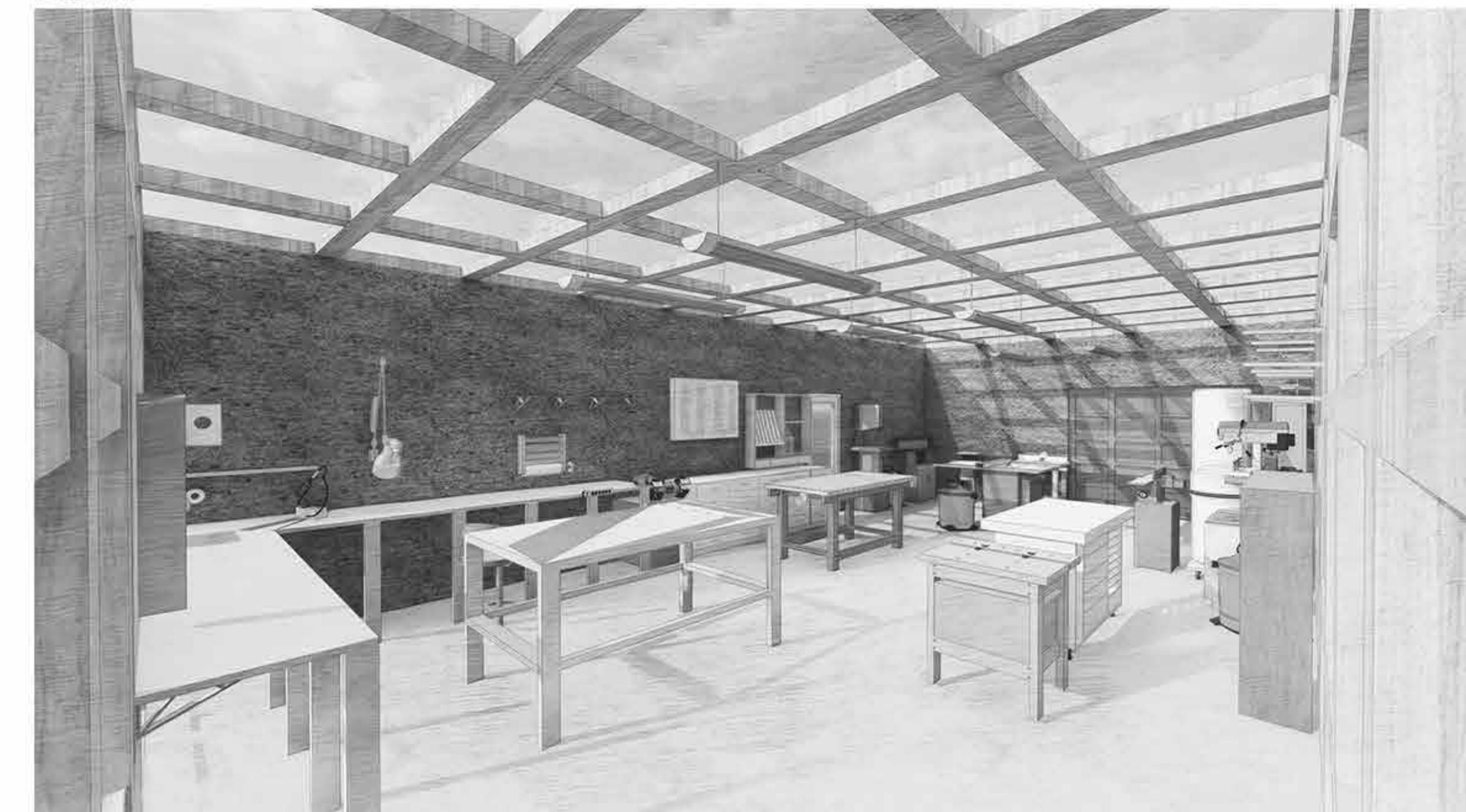
2. Workshop



1. Work space



WORK SHOP



This space is a work shop for the practical bits of work such building models or experimenting with materials. This space will have to be well ventilated and spacious so that movement around the work shop is free. As well as a storage space to store materials and allot of space for machinery.

WORK SPACE



The work space is an office type space but with a more social and open spaces to be able to share ideas it will be much like a studio space in architecture where student

as well as having well light space for the psychological comfort of the user of this space. This building will consist of private and public work/office spaces as well a small cafe for breaks, respite and socialising.

LABORATORY

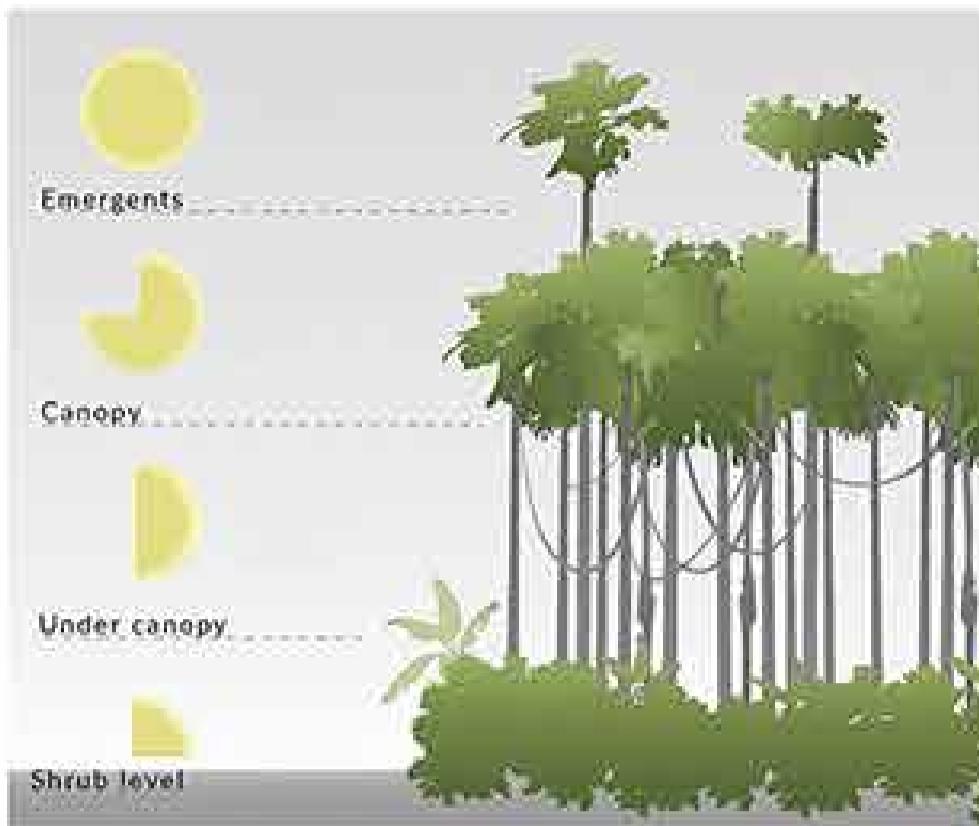


This space is a laboratory for scientific experimentation/researching. This space will have to be well ventilated as chemicals are being used and spacious so that movement around the laboratory is free.

PROGRAM.

AGROFORESTRY:INTERCROPPING

Intercropping involves cultivating two or more crops in a field simultaneously. In addition to cash crops, cover crops are also sometimes used in intercropping. This practice has regained attention worldwide, particularly in the tropics due to its beneficial effects on soil fertility and nutrient cycling.



LONG-TERM LOW SPECIES.

Common name: Chilli pepper
Habit: Shrub



Propagation methods: seed
Uses: food, medicine
Production Notes: Direct sow or transplant seedlings at desired final density. Begin fruiting in 4-5 months and produce ~5-2 kg fruit/bush/year.

LONG-TERM MEDIUM SPECIES.

Common name: tree basil
Habit: Shrub



Propagation methods: seed, cutting
Uses: food, medicine
Production Notes: Direct sow seeds or cuttings. Harvest when plants reach ~1m tall. Possible to harvest 4-5 times each year in good conditions.

LONG-TERM HIGH SPECIES

Common name: sugar apple
Habit: tree



Propagation methods: seed
Uses: fruit
Production Notes: Direct sown trees begin to fruit in 3-6 years. (Morton 1987)

LONG-TERM EMERGENT SPECIES.

Common name: ironwood
Habit: Tree



Propagation methods: seed
Uses: erosion control, windbreak, firewood, lumber, medicine
Production Notes: Direct sow seeds at 20-35 seeds per 10 square meters; then thin them over time to the desired final density.

Plant list

Long-term low species

Common name	Botanical name	Habit	Lifespan months	Prune at height (m)	Prune at diameter (m)	Post-prune height (m)	Post-prune diameter (m)
chilli pepper	<i>Capsicum annuum</i> (Solanaeae)	Shrub	7	1.5	1.2	1	1

Long-term medium species

Common name	Botanical name	Habit	Lifespan months	Prune at height (m)	Prune at diameter (m)	Post-prune height (m)	Post-prune diameter (m)
tree basil	<i>Ocimum sanctum</i>	Shrub	40	4.9	3	3.7	2.4

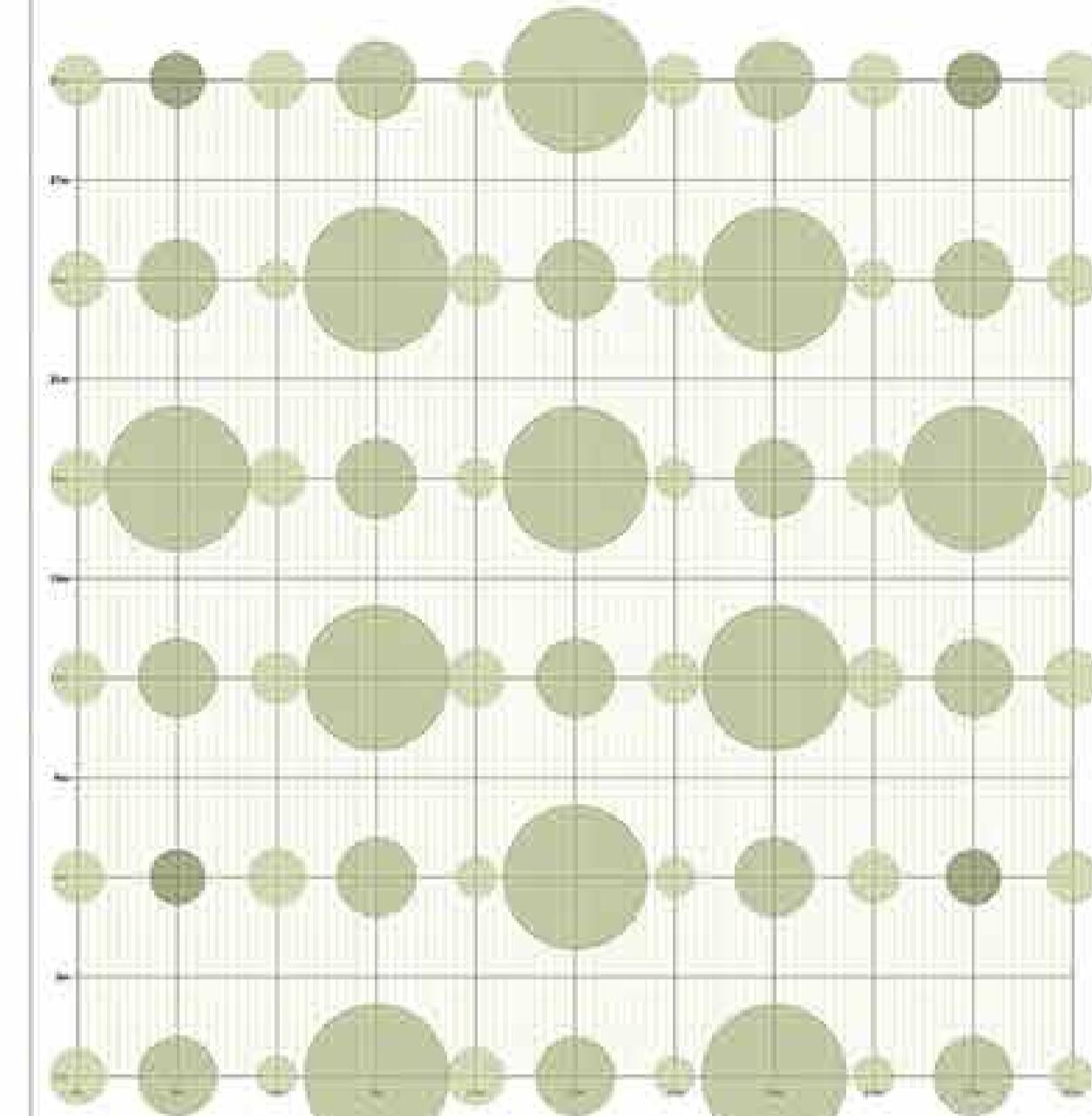
Long-term high species

Common name	Botanical name	Habit	Lifespan months	Prune at height (m)	Prune at diameter (m)	Post-prune height (m)	Post-prune diameter (m)
sugar apple	<i>Annona squamosa</i> (Anonaceae)	Tree	60	7.3	7.3	4.9	4.9

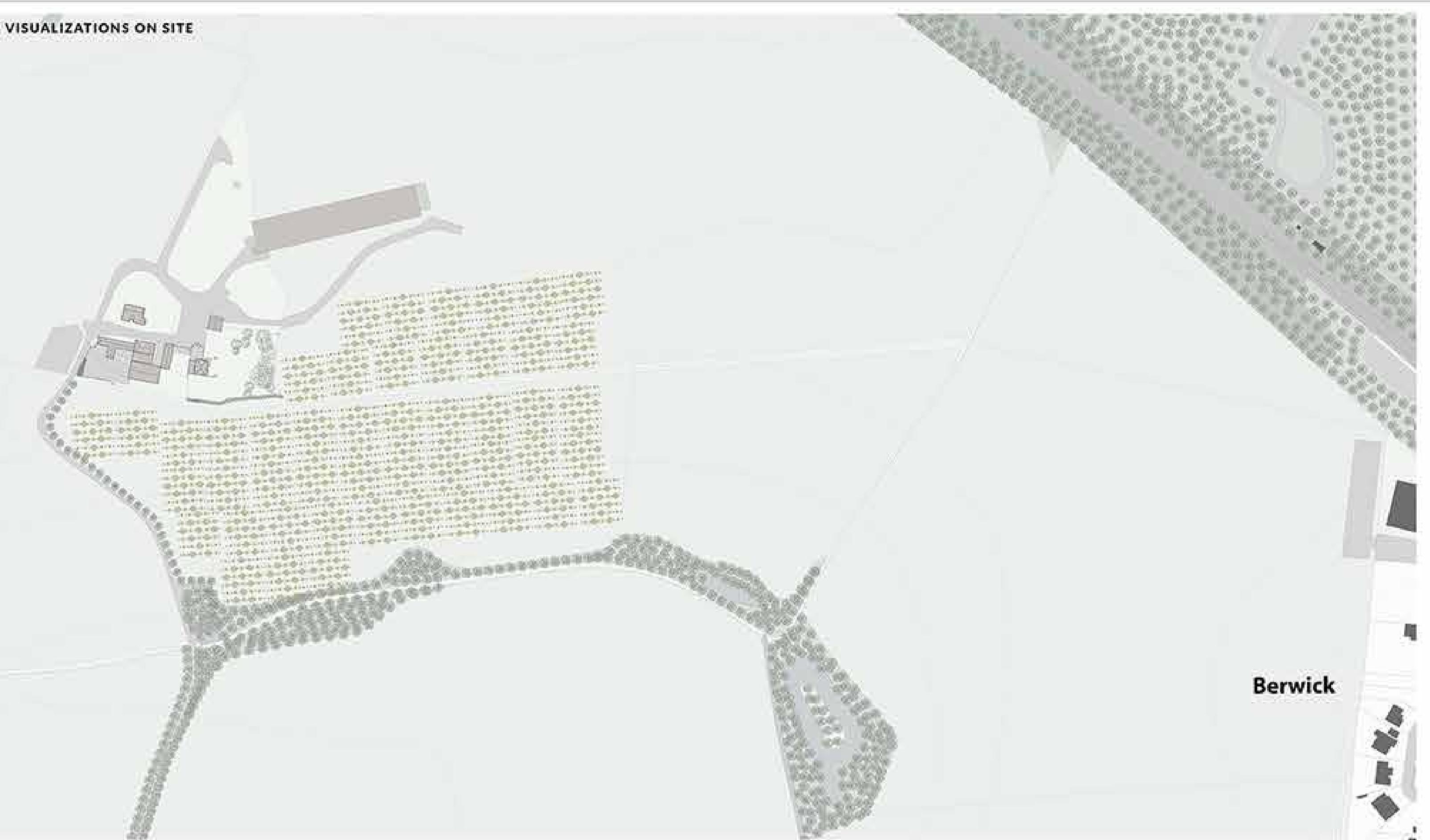
Long-term emergent species

Common name	Botanical name	Habit	Lifespan months	Prune at height (m)	Prune at diameter (m)	Post-prune height (m)	Post-prune diameter (m)
ironwood	<i>Casuarina equisetifolia</i> (Casuarinaceae)	Tree	100	15	11.9	7.6	11.9

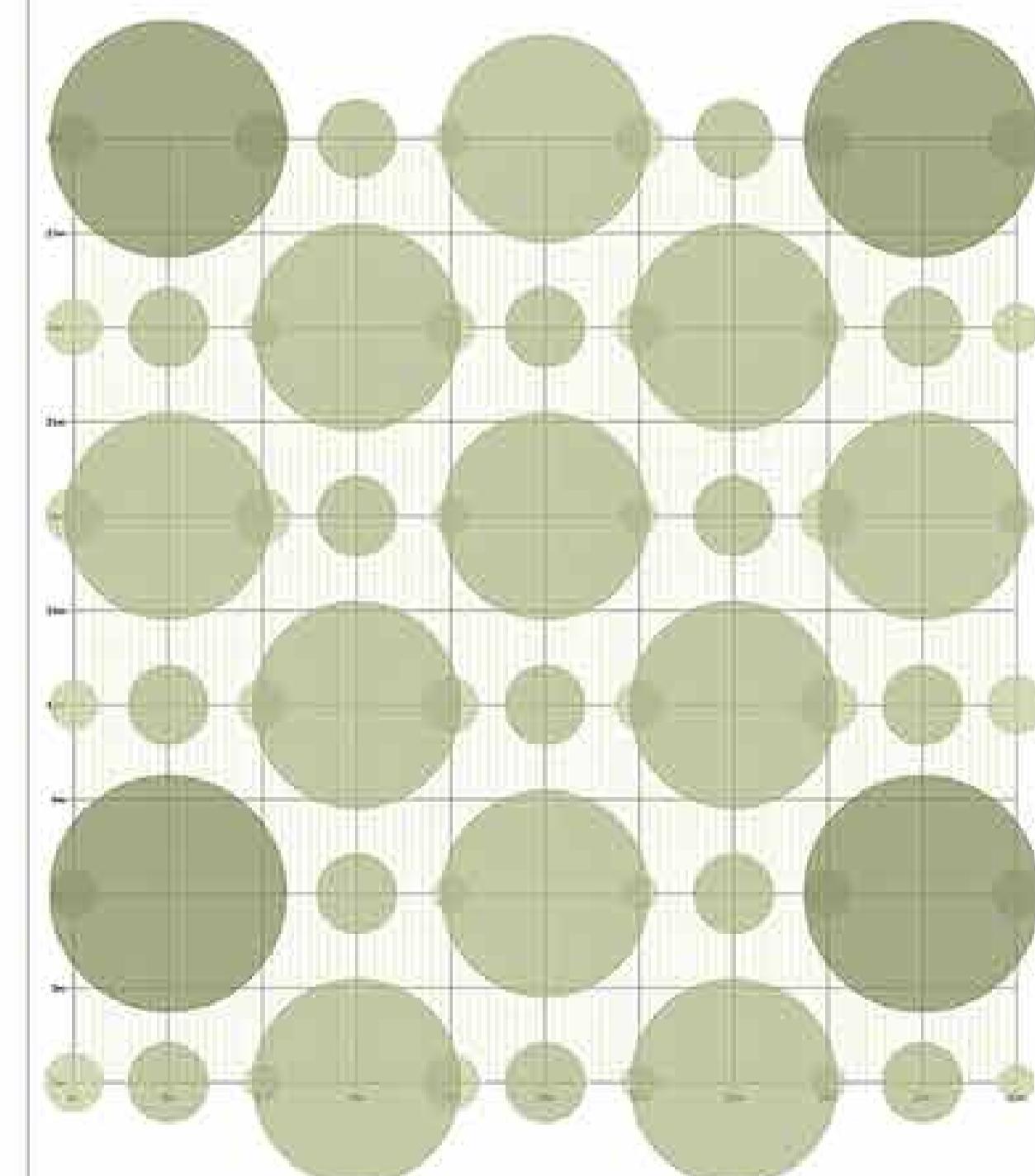
3-YEAR VISUALIZATIONS



3-YEAR VISUALIZATIONS ON SITE



10-YEAR VISUALIZATIONS



10-YEAR VISUALIZATIONS ON SITE

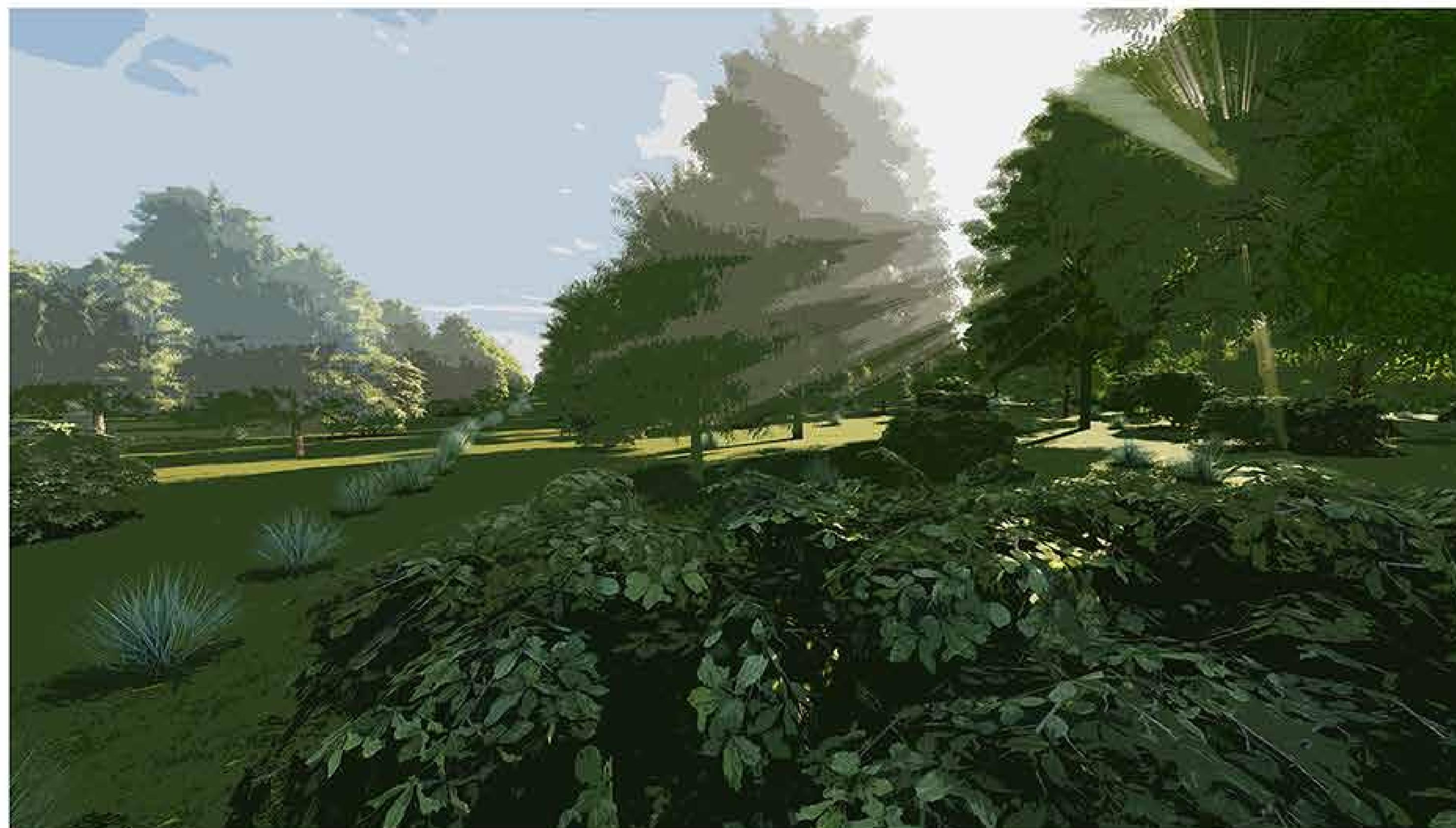


Berwick

Berwick

PROGRAM.

LANDSCAPE VISUAL AFTER 3-10 YEARS



PROGRAM.

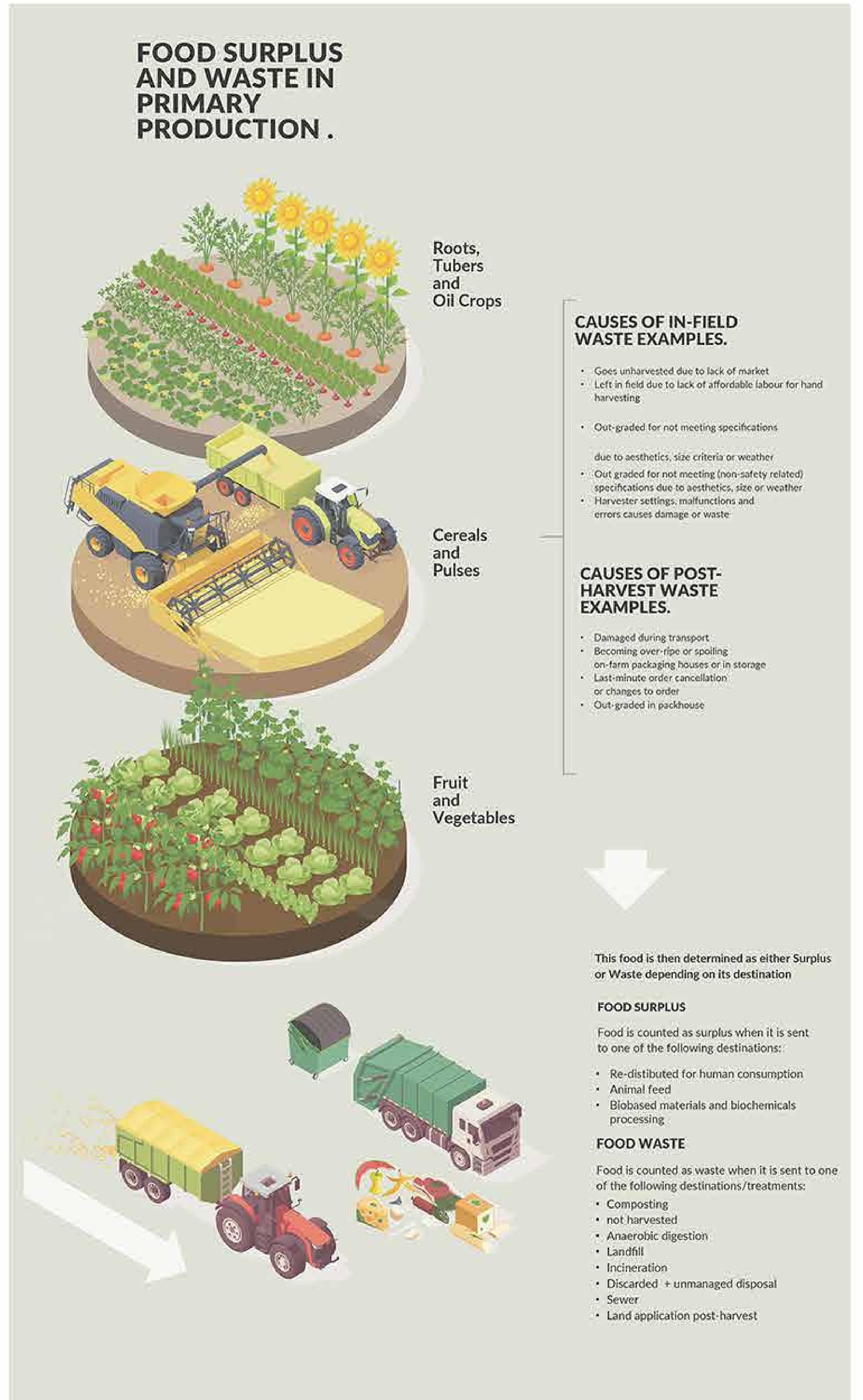
RESEARCH FOR FOOD WASTEAGE



FOOD WASTE ON FARM: The focus of this work is on farm-stage food waste. We are defining 'food waste at farm stage' to apply to any outputs from primary food production that are, or were at some point, intended for human consumption, but which end up either not being harvested (and subsequently ploughed in) or sent to one of the eight other food waste destinations listed above. This starts by defining the point at which the food chain begins, when the outputs from primary production can be regarded as 'food'. For crops and produce this is defined in terms of crop maturity and being 'mature and ready for harvest'.

IN FIELD FOOD WASTE: This is waste which occurs once crops or animals have reached a mature or harvestable state (NB: harvestable could mean a variety of states). Food is often harvested pre-ripening to allow for a greater lifespan in the supply chain. Typical examples of FFW in field is food that goes unharvested due to surplus with no secondary market; lack of affordable labour to harvest; not meeting specifications due to aesthetics, size or weather; pest or disease damage; or last-minute order cancellation.

POST-HARVEST FOOD WASTE: This is food that is lost post-harvest, but pre-farm gate; for example, due to damage or becoming over-ripe in transport, on-farm packaging houses or in storage.



SOLUTION



VEGETABLE BOX	VEGETABLE BOX WITH 5 kg POTATOES £11	
Bunch of carrots Swede Onions Leeks Savoy cabbage Cauliflower Broccoli	£8	
POTATOES 5kg £3 12.5kg £5 Mars Peer, Mozart and King Edward available		

Vegetable boxes play a crucial role in addressing food waste and promoting sustainability. These boxes typically contain a variety of fresh, seasonal vegetables that are sourced directly from local farms. By connecting consumers with local producers, vegetable boxes support the local economy and reduce the carbon footprint associated with long-distance transportation.

One of the significant benefits of vegetable boxes is their positive impact on food waste reduction. In traditional food supply chains, large amounts of produce are discarded due to cosmetic imperfections or overproduction. However, vegetable boxes challenge this wasteful practice by embracing the concept of "ugly" or imperfect produce. By including these blemished but perfectly edible vegetables in the boxes, they help minimize food waste at the farm level.

Furthermore, vegetable boxes operate on a "subscription" model, where consumers receive a regular supply of fresh produce. This approach encourages better meal planning and reduces the likelihood of impulse purchases, resulting in less food waste at the household level. Since the contents of the boxes are typically determined based on what is in season and available, they promote a more sustainable and efficient use of resources.

Moreover, vegetable boxes often incorporate sustainable packaging materials, such as reusable or compostable containers, which further contribute to reducing waste. This eco-friendly approach helps mitigate the environmental impact of excessive plastic packaging commonly associated with traditional grocery store produce.

In addition to reducing food waste, vegetable boxes also foster a stronger connection between consumers and their food sources. By receiving a curated selection of locally grown vegetables, consumers become more aware of the seasonality of produce and develop a deeper appreciation for the efforts of local farmers. This connection can lead to increased support for local agriculture and a more sustainable food system overall.

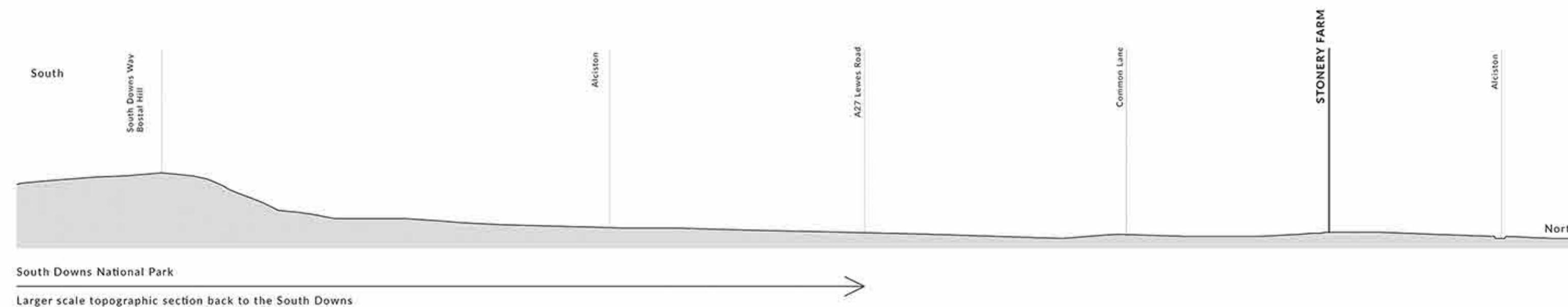
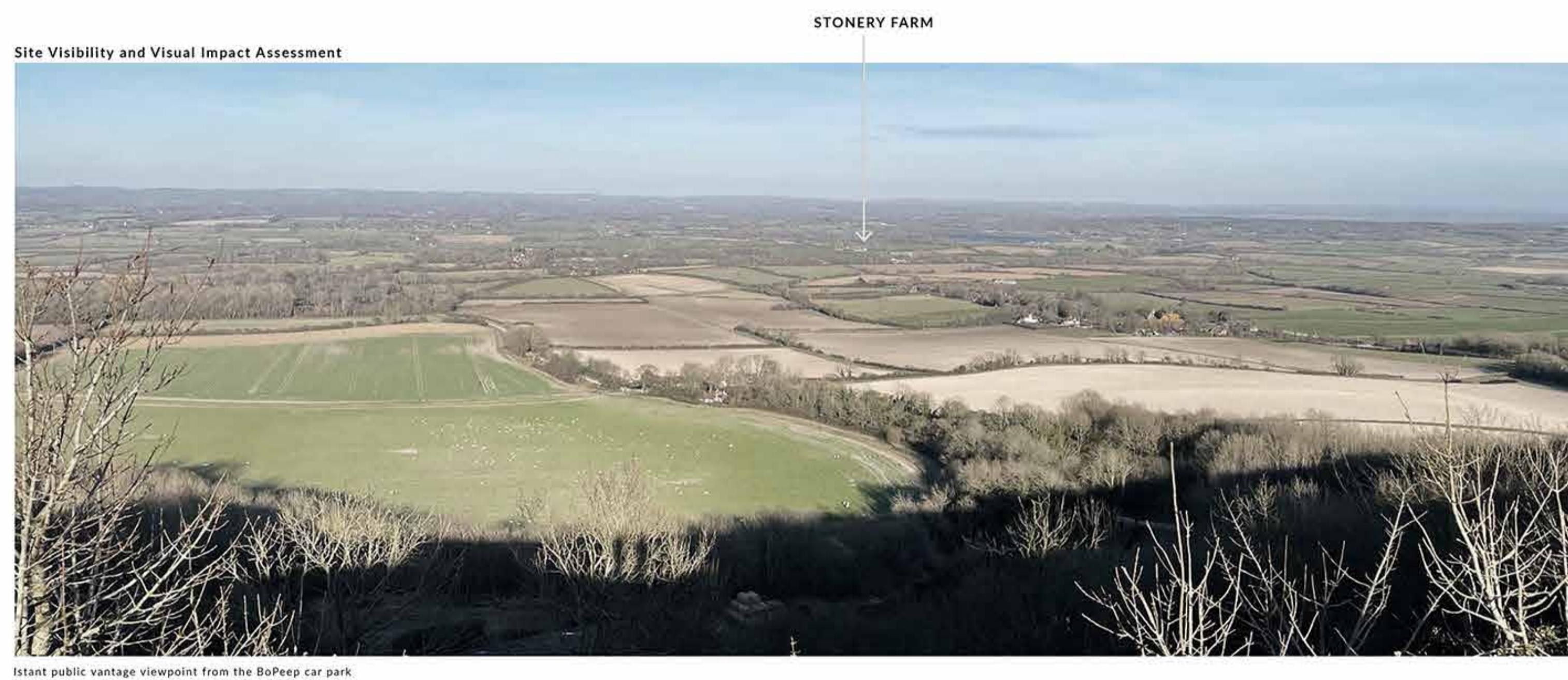
In summary, vegetable boxes have a positive impact on food waste reduction by embracing imperfect produce, promoting better meal planning, and utilizing sustainable packaging. They help minimize waste at both the farm and household levels while fostering a closer relationship between consumers and local food sources. By supporting vegetable boxes, individuals can contribute to a more sustainable and environmentally conscious approach to food consumption.

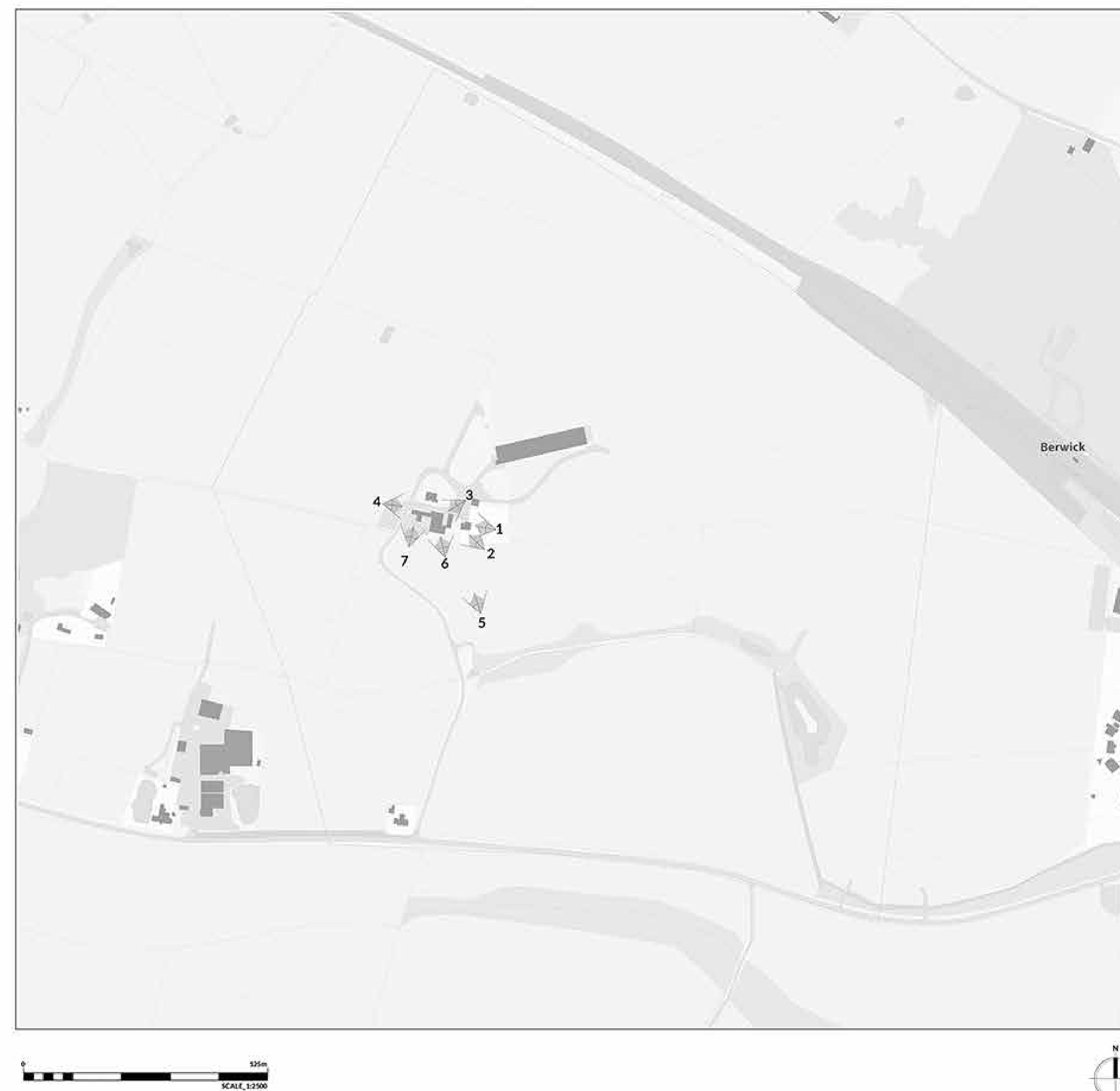
SITE STUDY .

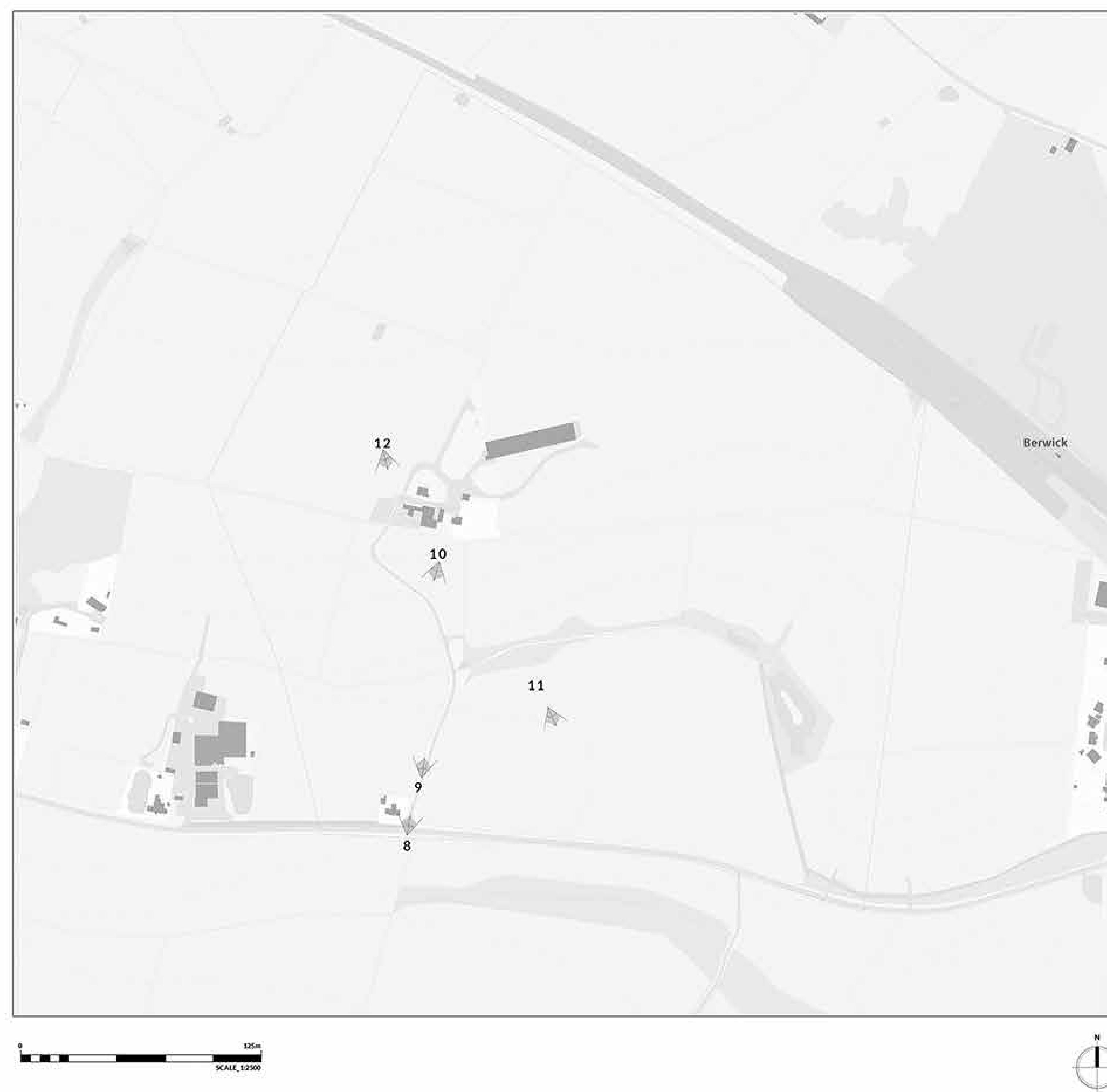
THESE WILL BE A SERIES OF DRAWINGS
THAT ANALYZE THE SITE AS WELL AS
WHAT TYPE OF BUILDINGS EXIST AND
SOME MATERIALS







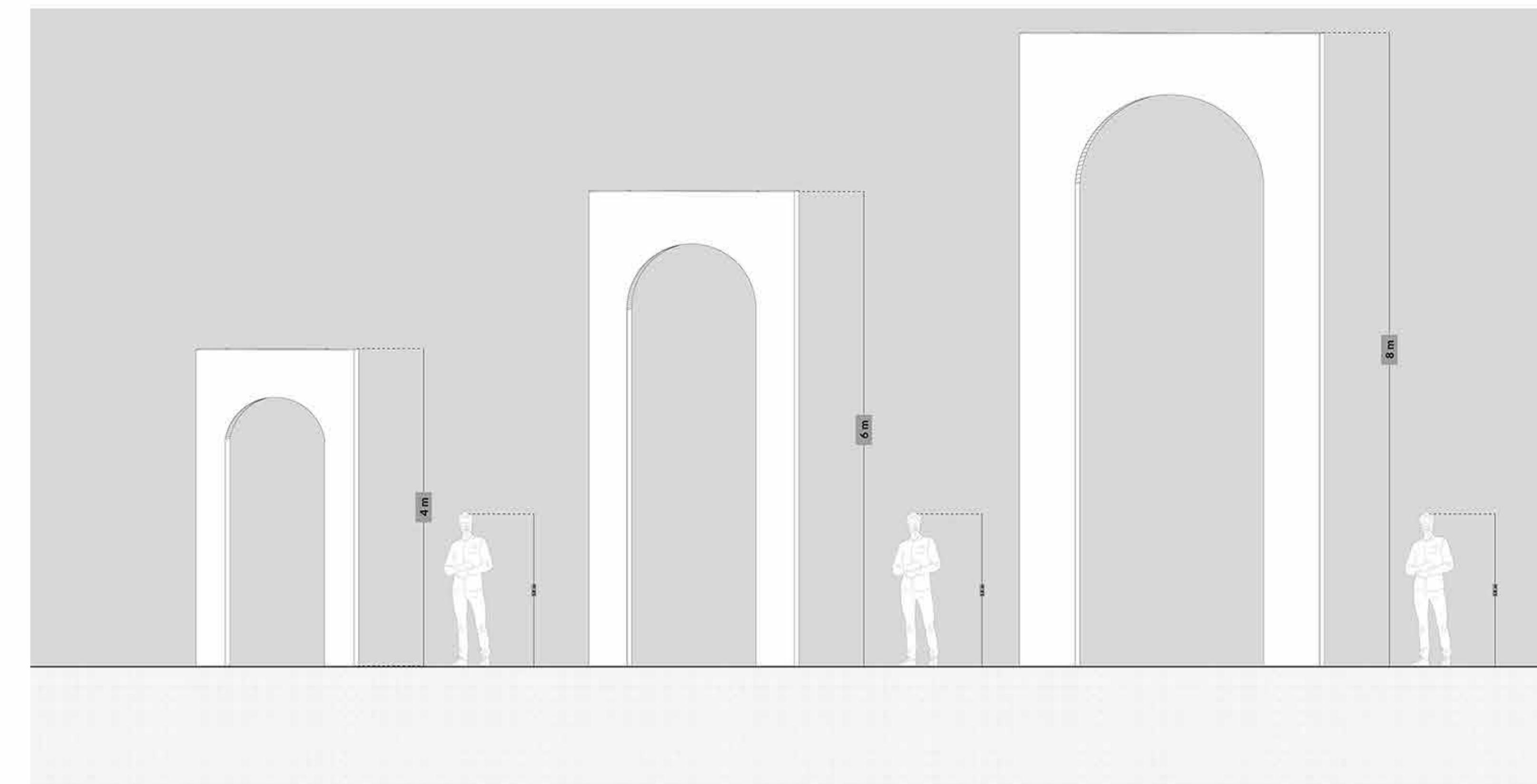
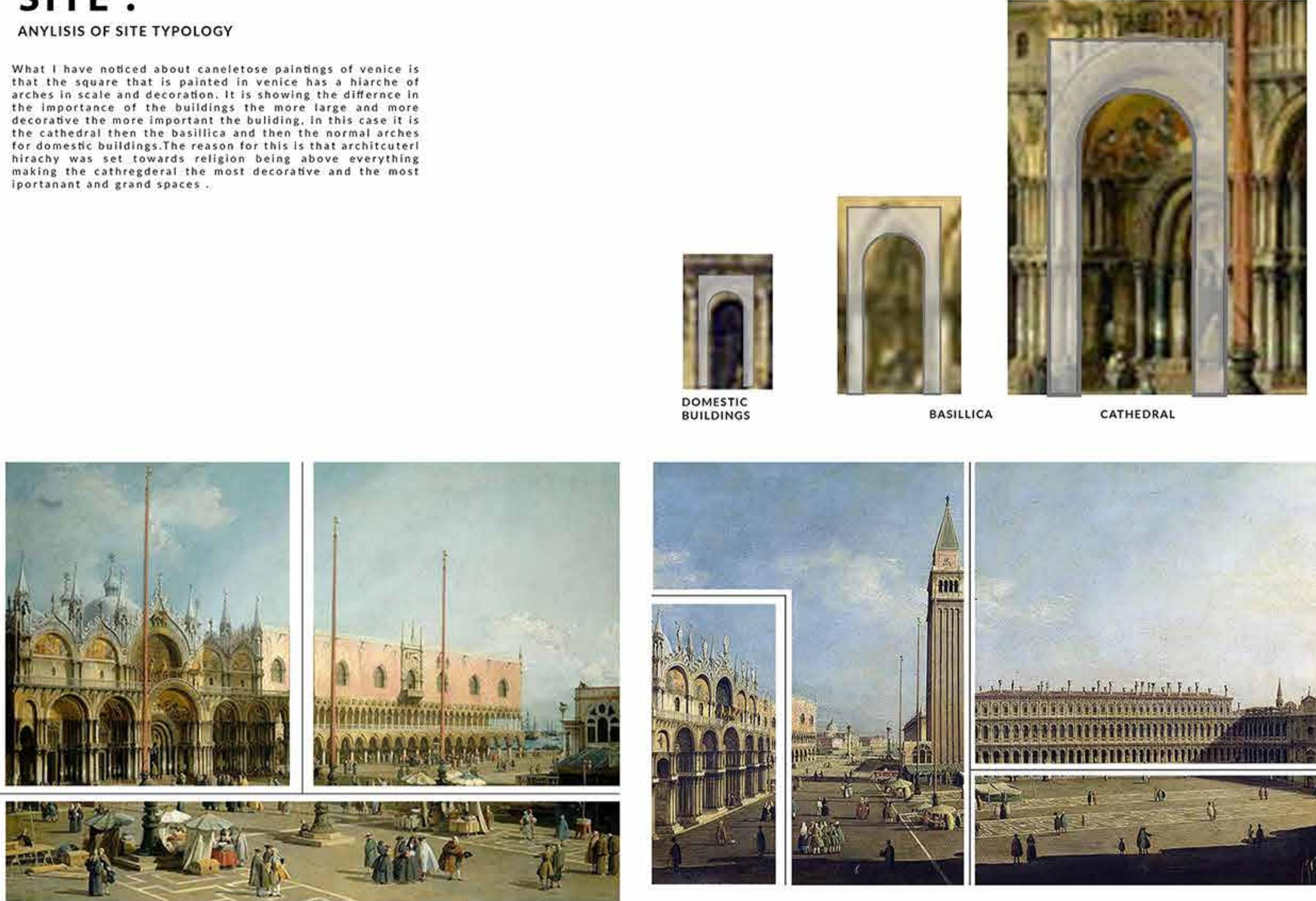




SITE .

ANLYSIS OF SITE TYPOLOGY

What I have noticed about canalettose paintings of venice is that the square that is painted in venice has a hiarche of arches in scale and decoration. It is showing the difference in the importance of the buildings the more large and more decorative the more important the building. In this case is the cathedral then the basilica and then the small arches for domestic buildings. The reason for this is that architecturial hirarchy was set towards religion being above everything making the cathregderal the most decorative and the most iportantant and grand spaces .



BERWICK :STONERY FARM

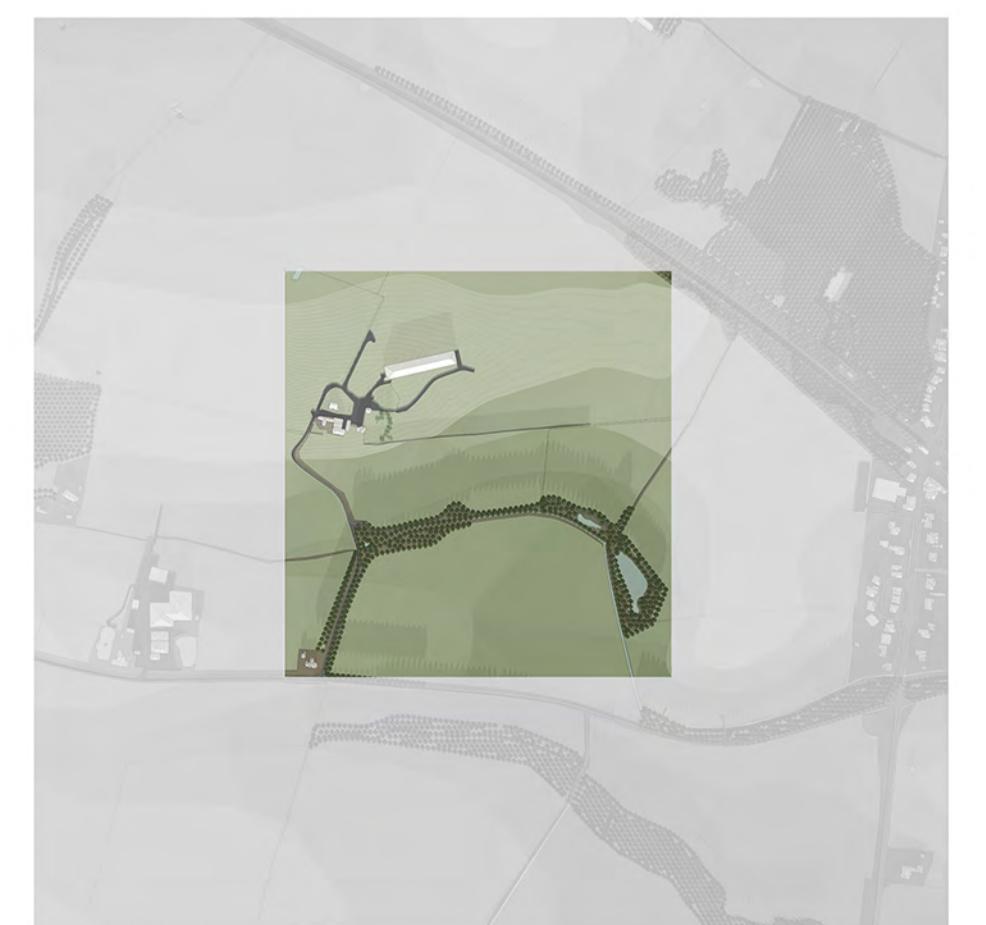
You can see a similar hirarchical typology on the sites envirromnet not that it hilights anything important on the site but it can be used on site as a method to create a natural typology on site hilighting some of the impotant areas not only that but to reawilde the site .



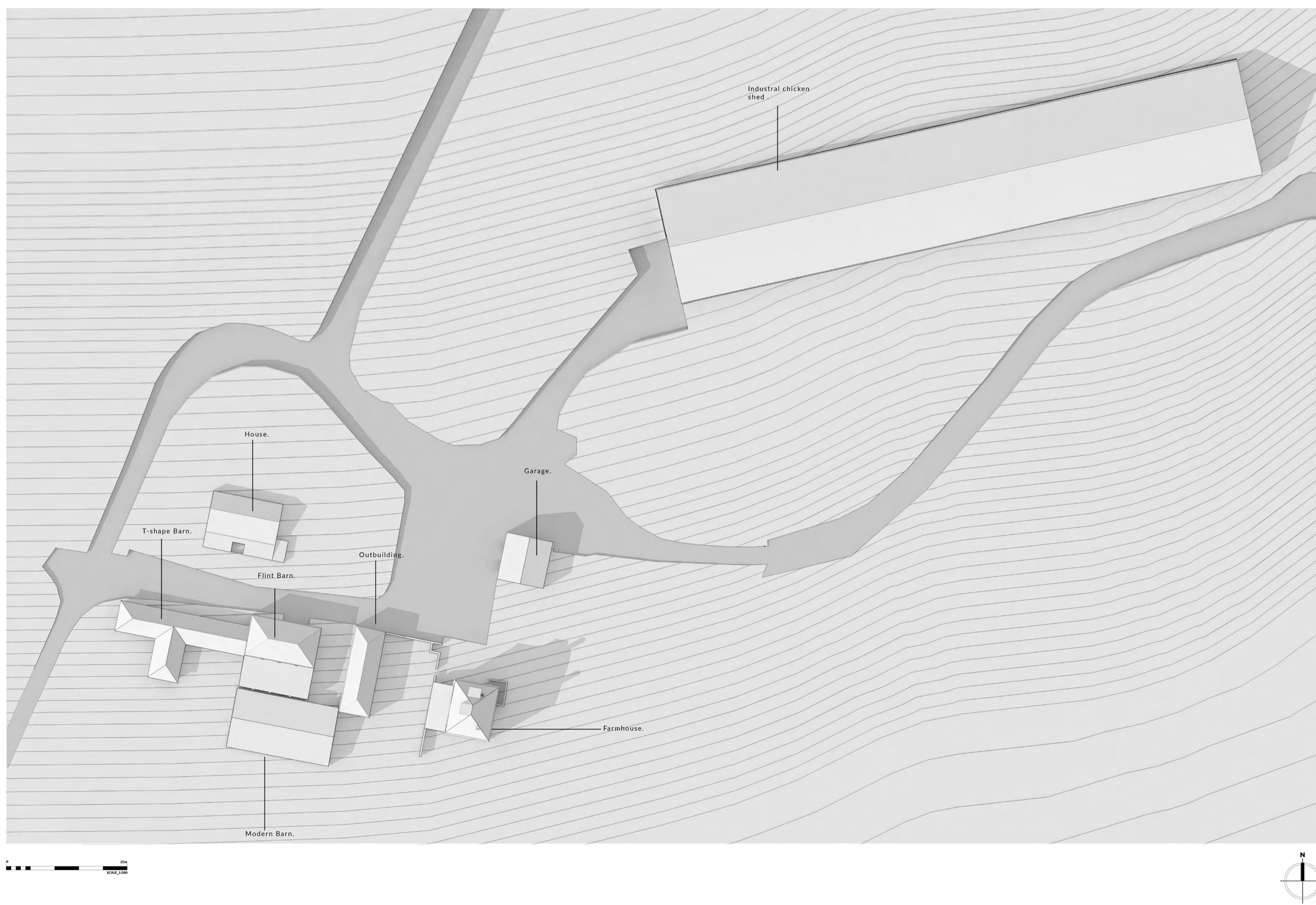




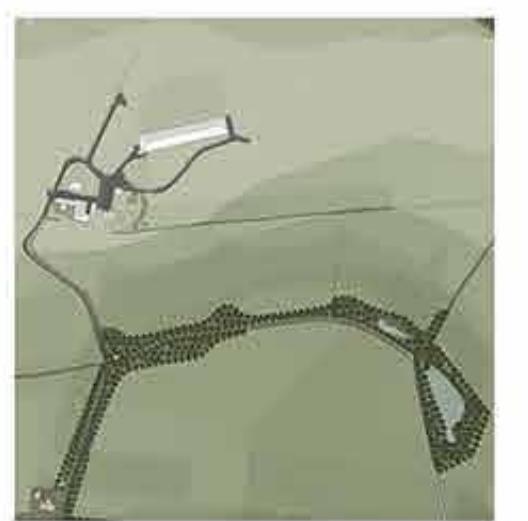
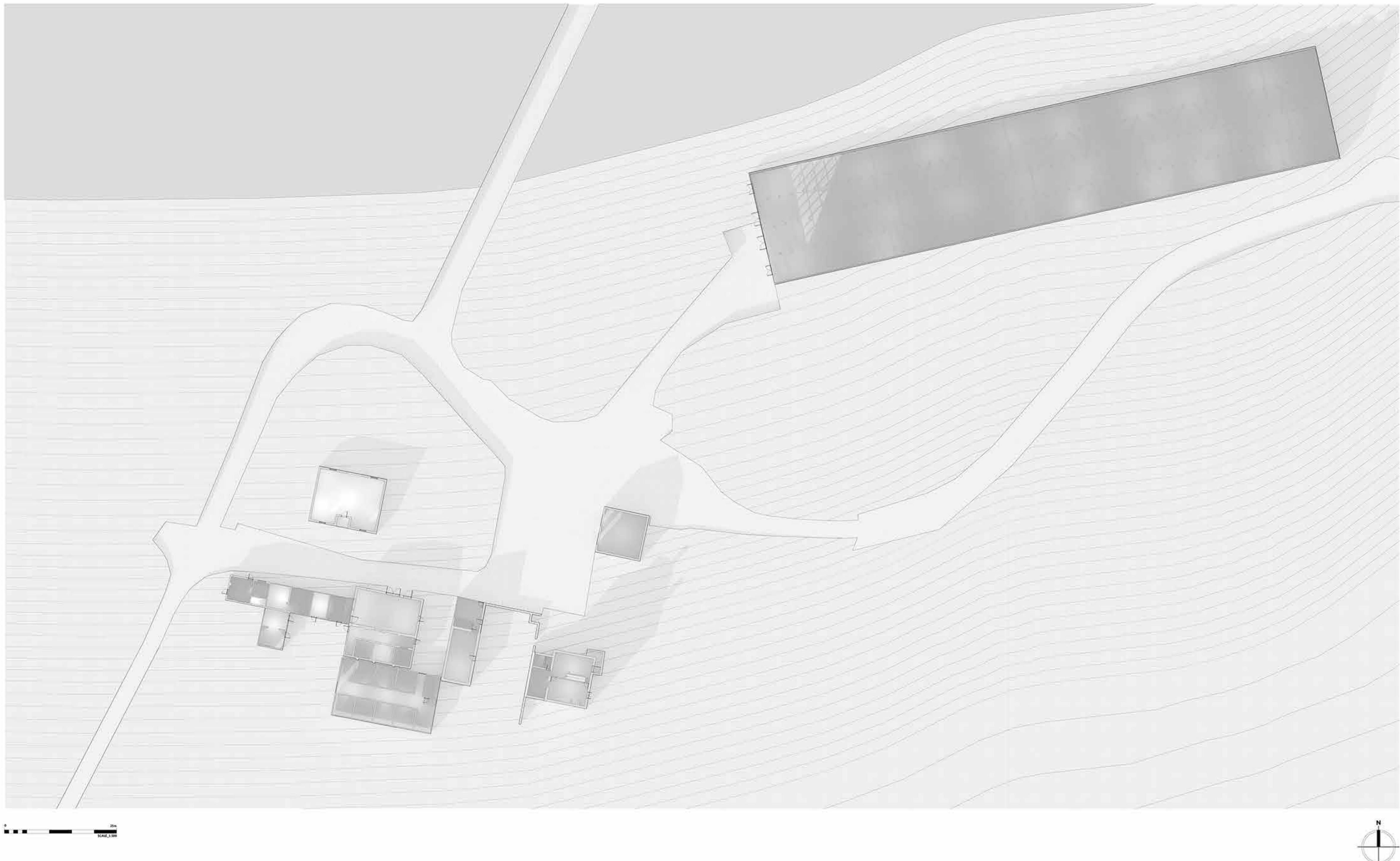
SITE.
AXONOMETRIC



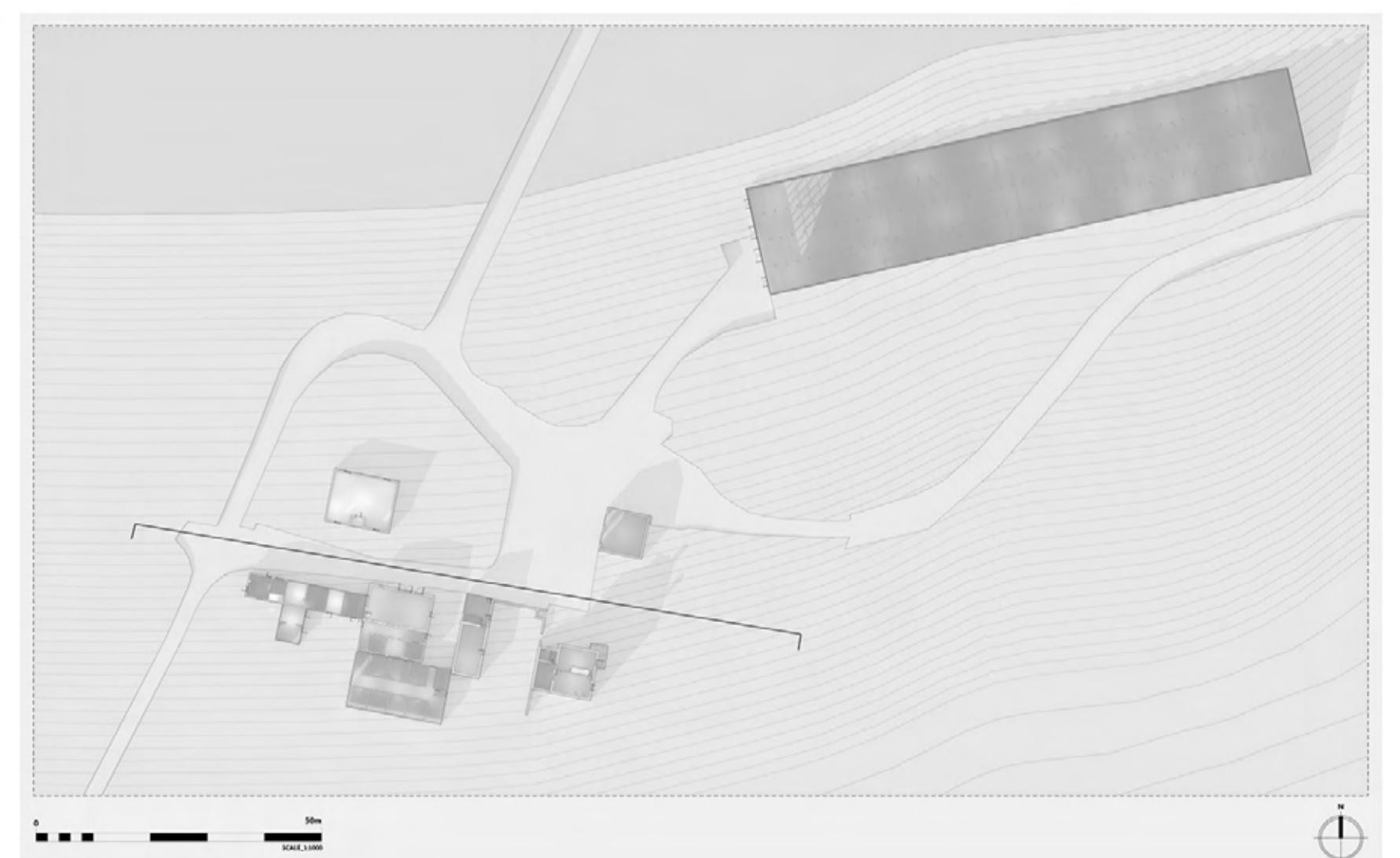
EXISTING BUILDINGS.



SITE.
SITE PLAN



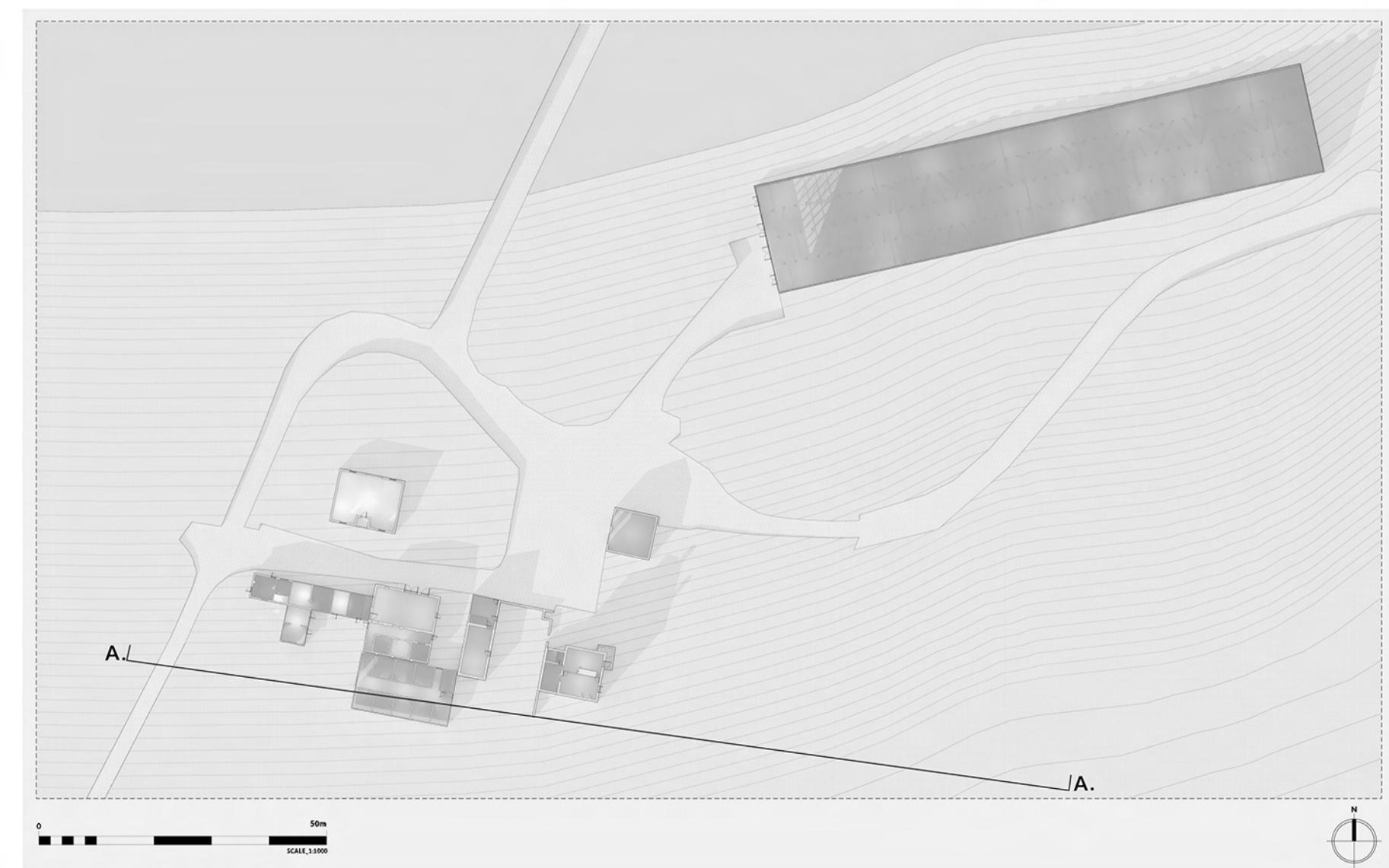
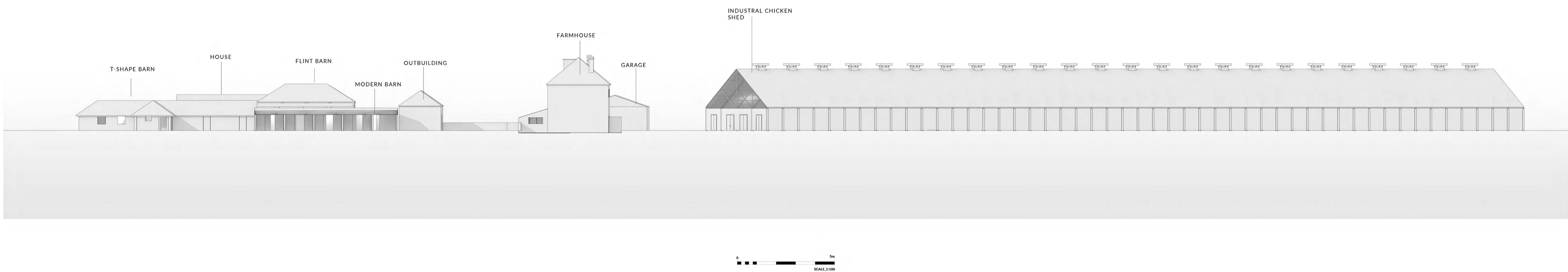
SITE.
ELEVATION



The elevation was drawn in detail to show the different materials.

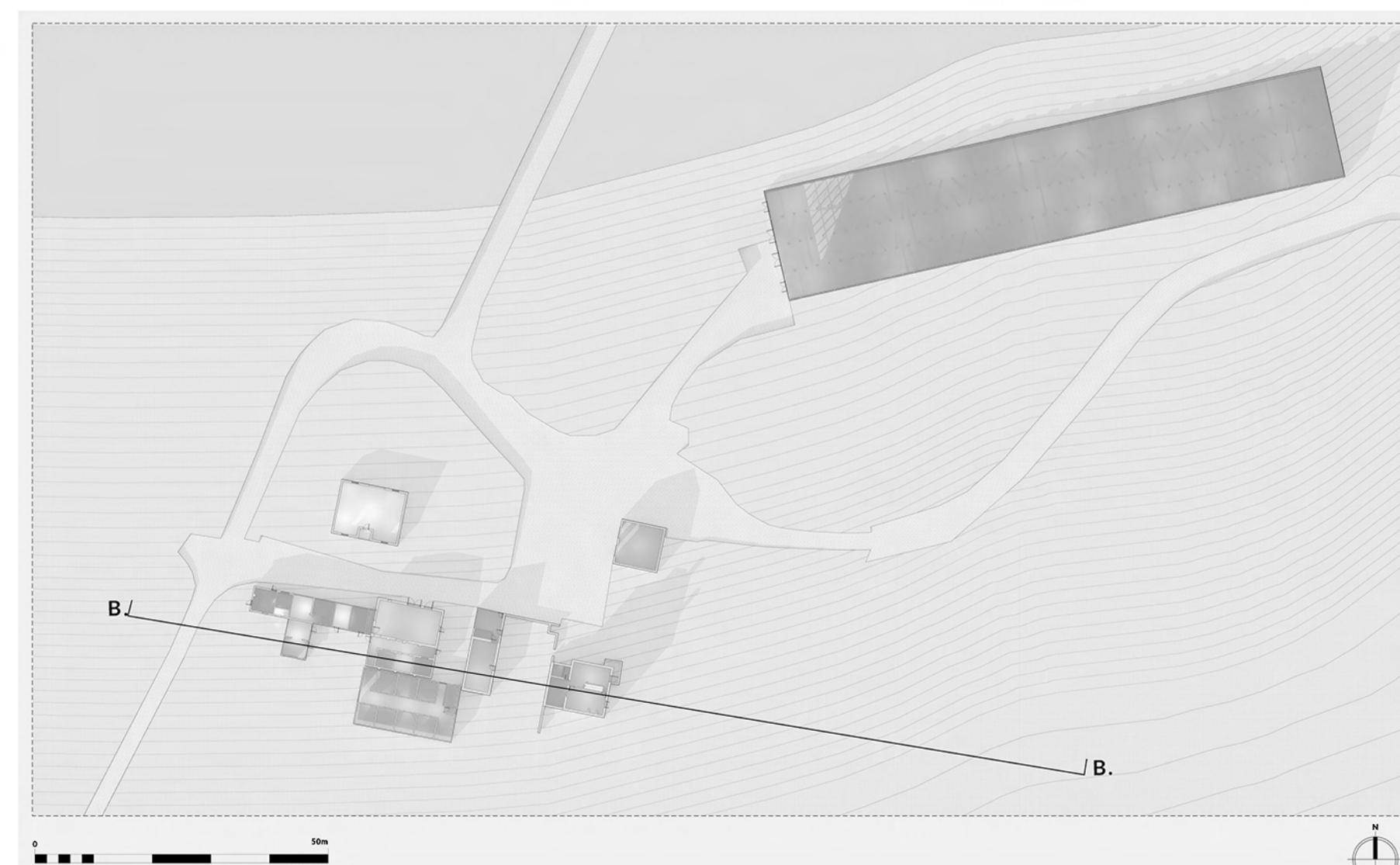
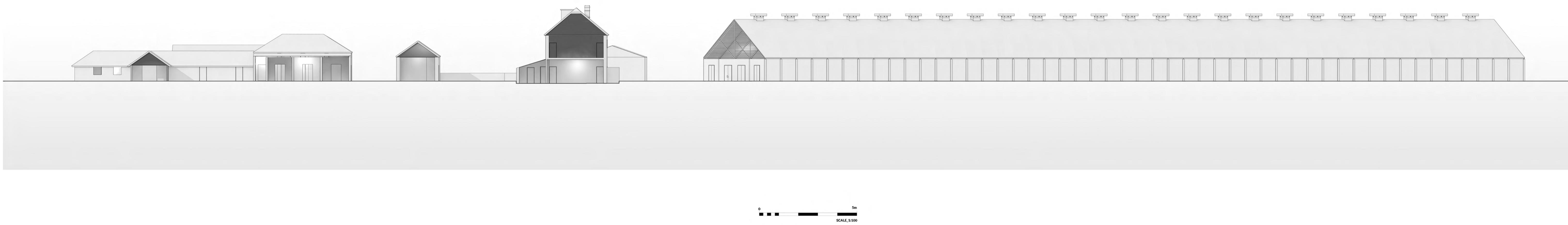
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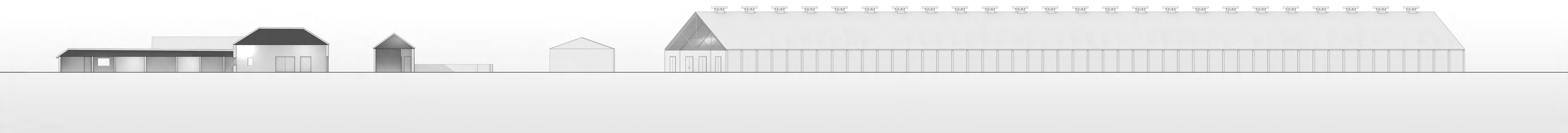
SITE SECTION A



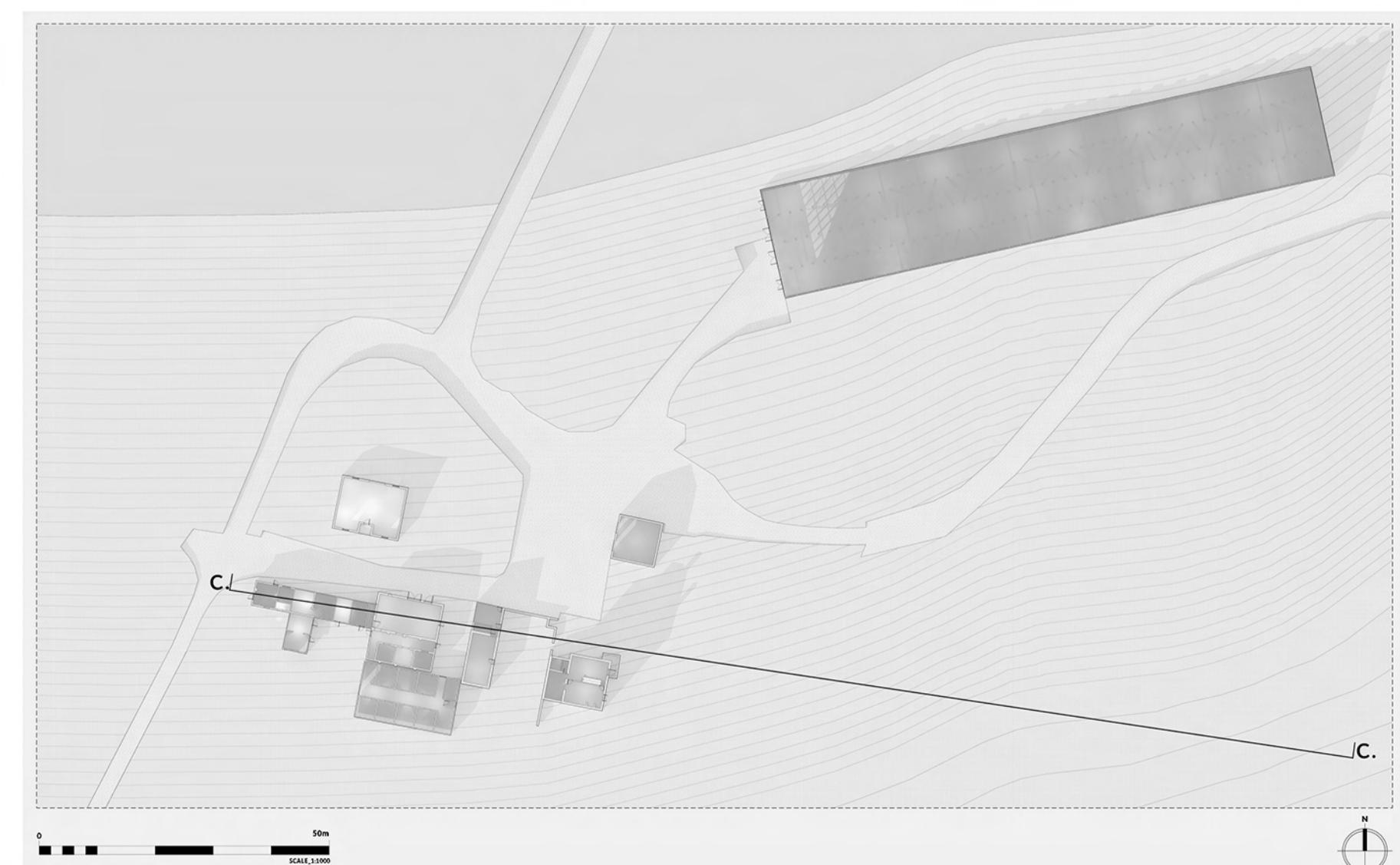
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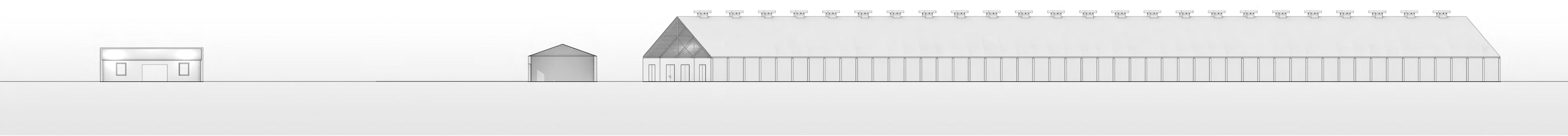
SITE SECTION B



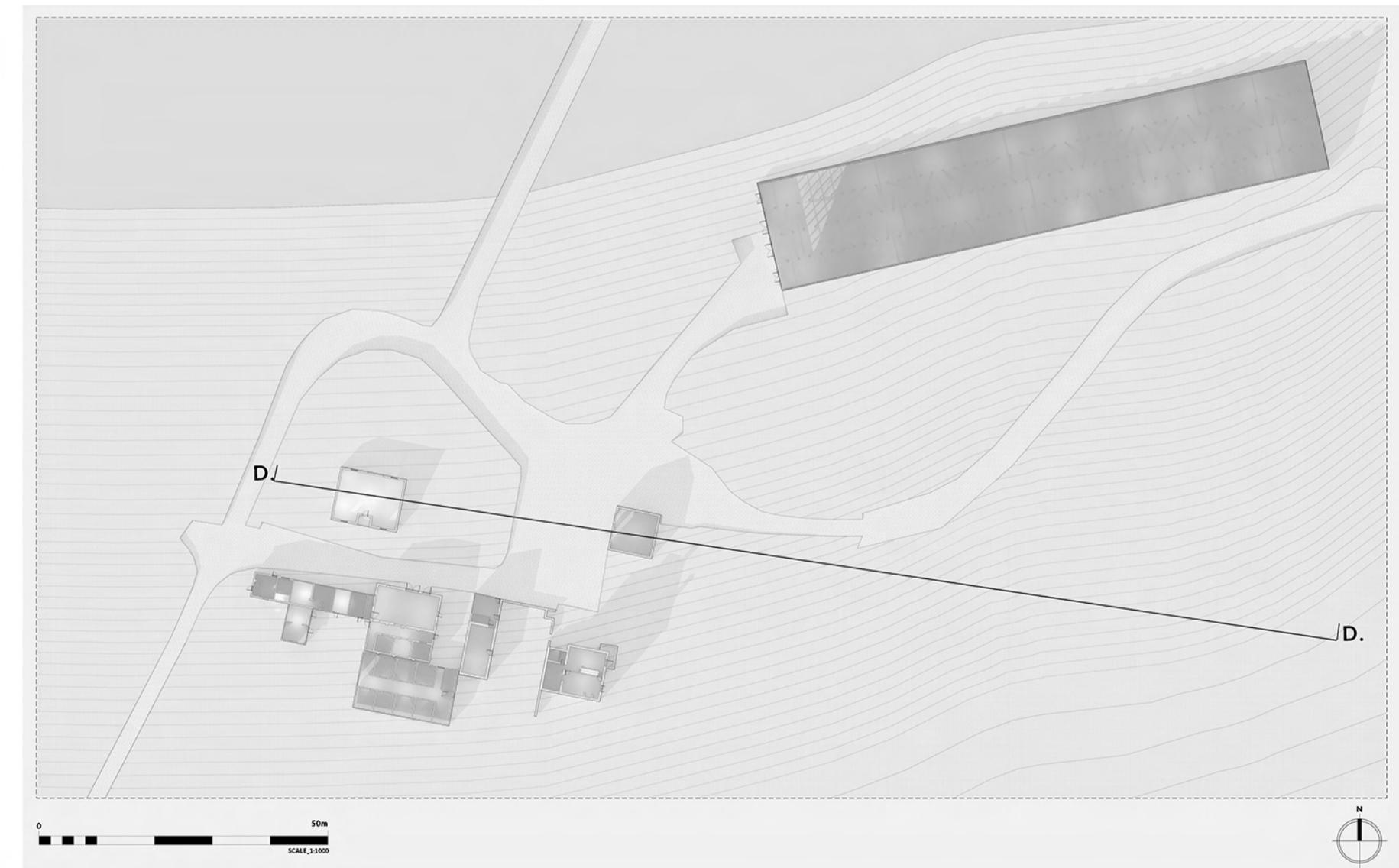


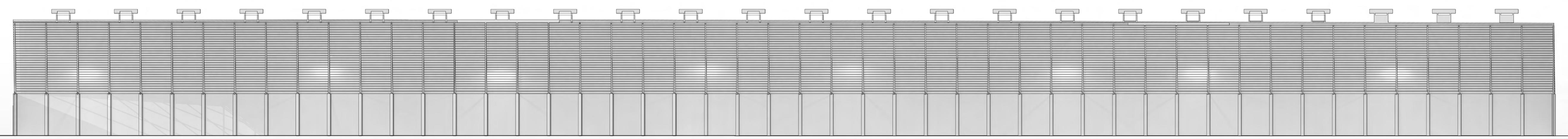
0 5m
SCALE: 1:100





0 5m
SCALE: 1:100



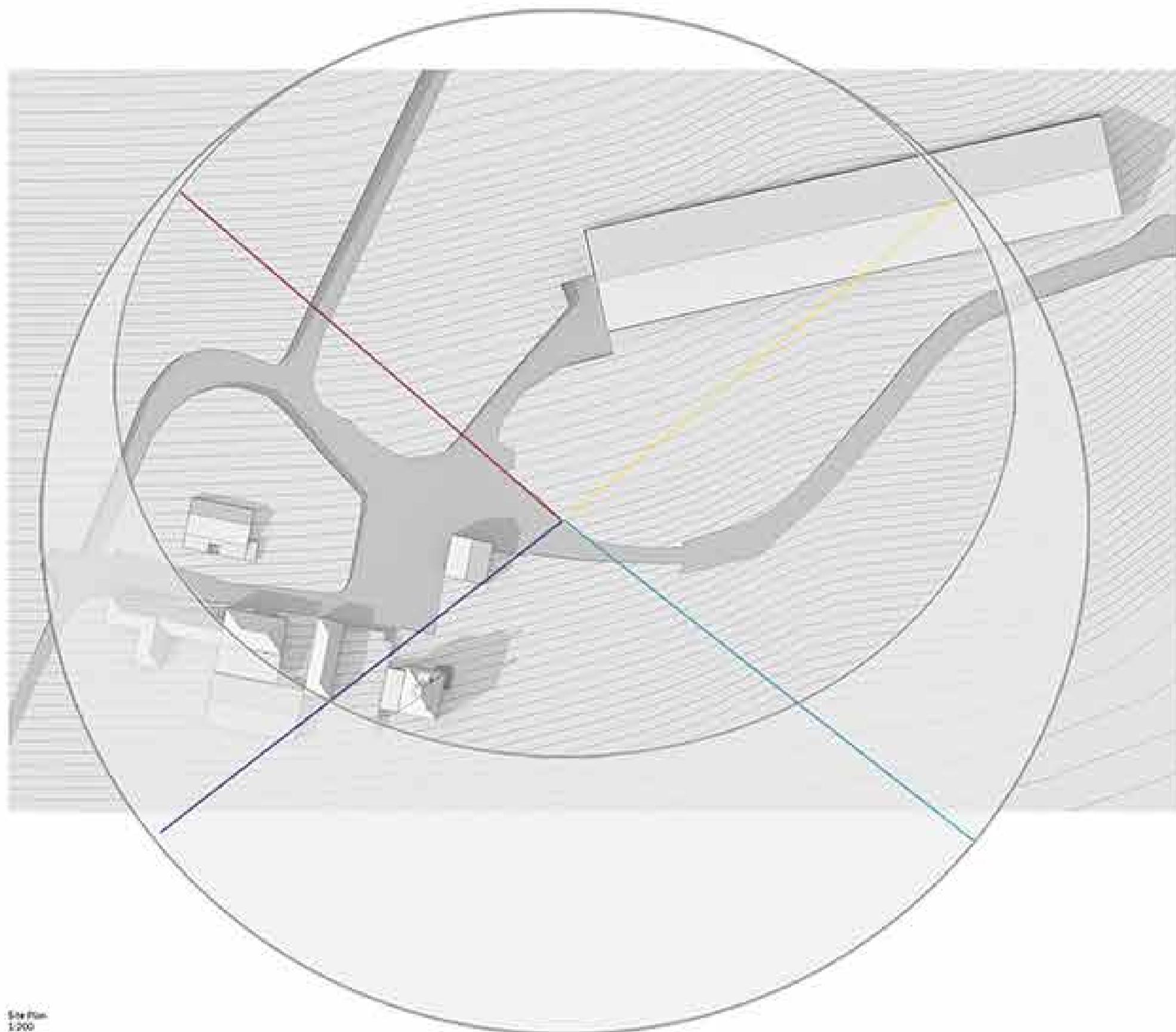


0 5m
SCALE: 1:100

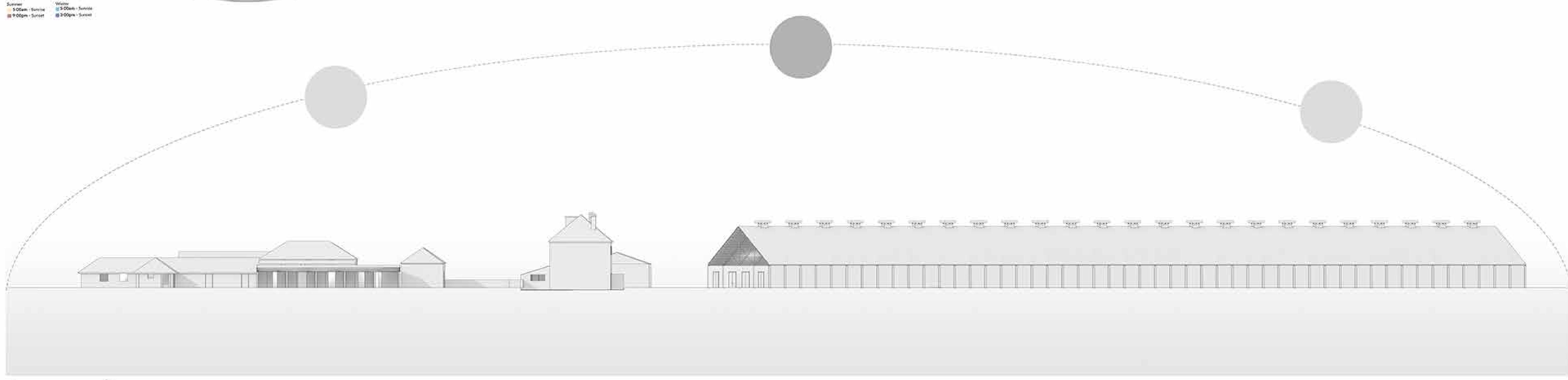
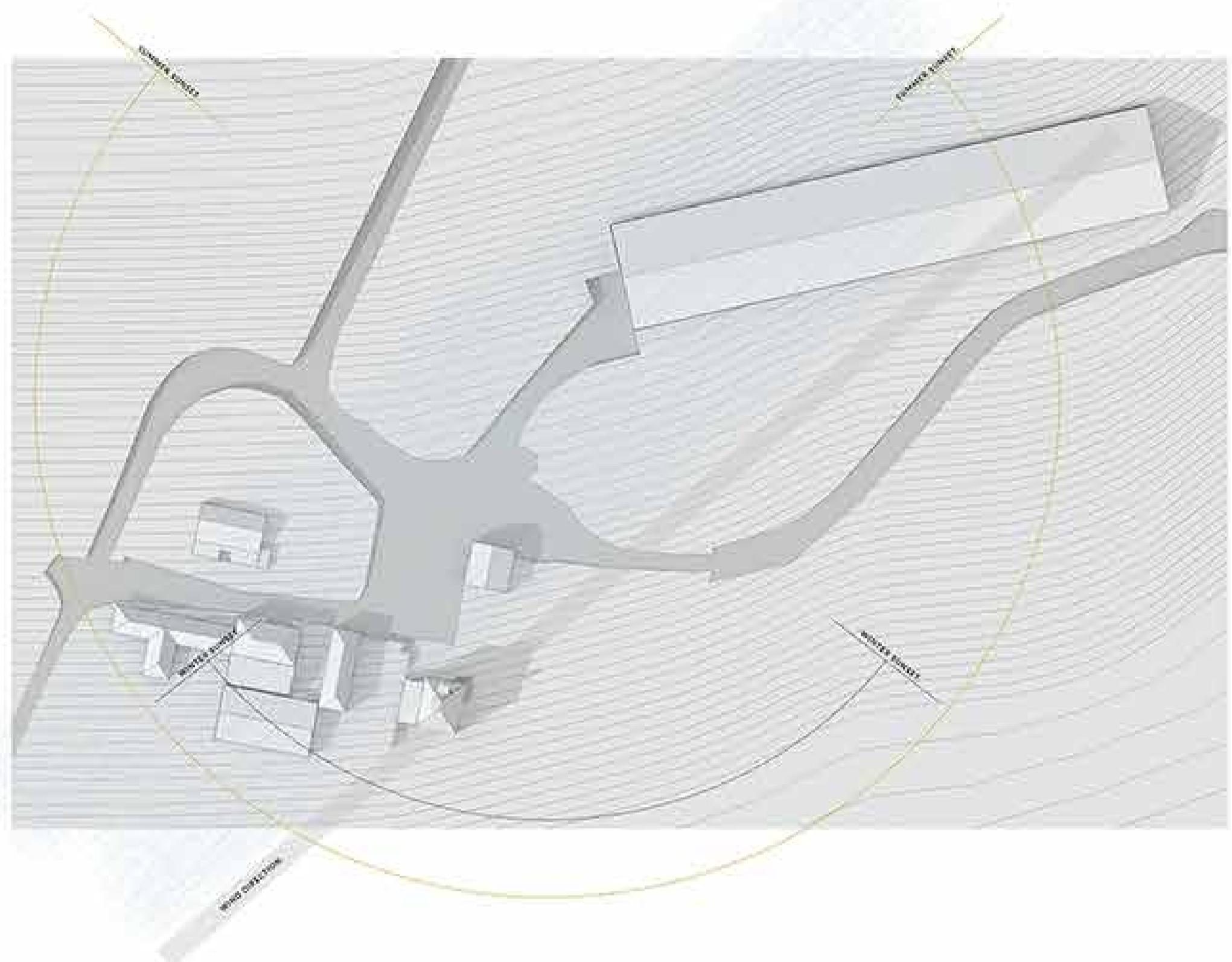


SITE .

SITE STUDY :ENVIRONMENTAL CONDITIONS



Site Plan
1:200
Summer
5:00am - Sunrise Water
9:00pm - Sunset 3:00pm - Sunrise
12:00pm - Sunset



Site Section
1:200
Summer 8:00
Winter 10:00

