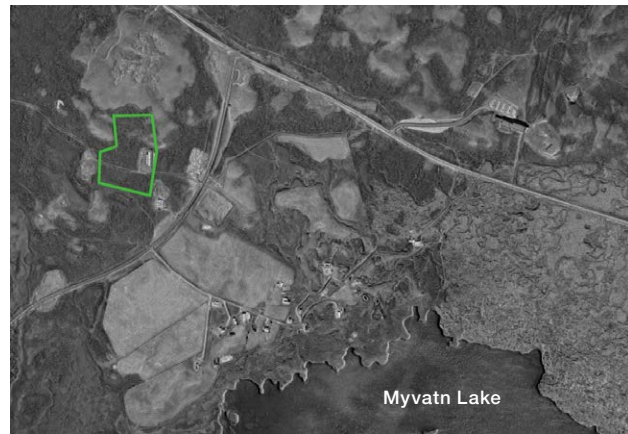


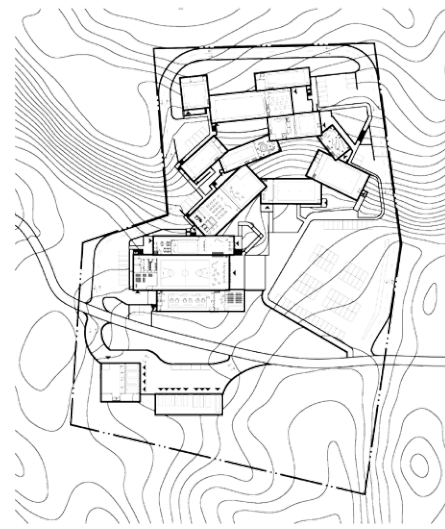
# WITHIN SCENERY

Location : Skútustaðir, Iceland      Building area : 83,700 SF      Gross floor area : 83,700 SF      Primary Structure : Reinforced Concrete      Use : Community facility, green house, and resource storage and management facility

WITHIN SCENERY is a community house designed to support the Mývatn Lake area. Development in the Mývatn Lake area is restricted to preserve the unique volcanic and tundra landscape, as well as the rural buildings that give the area its distinctive character. Therefore, large-scale community infrastructure—such as big gyms, weekend farms for residents, or flea markets, which are common in cities—cannot be built. Given these conditions, we propose a community facility that will support the residents of the Mývatn Lake area. “Within Scenery” would be a community facility that reflects vernacular architecture, such as turf houses, and respects the scale of rural buildings, is adapted to the natural contours of the land, and connects smaller, rural-scale buildings to create a larger, unified community space. As a result, “Within Scenery” would provide essential community programs to the Mývatn Lake area while preserving its character.



Vicinity map  
Non-scale



Site plan  
Scale 1 in : 200 ft

100 ft



The Mývatn Lake area has unique volcanic and tundra landforms and rural buildings, which are characteristic of Iceland’s vernacular architecture: turf houses. These distinctive elements create exotic scenery and make the Mývatn Lake area a popular tourist attraction. Such landforms and rural elements are valuable sightseeing assets for the area.

Therefore, we propose construction designed to help maintain the Mývatn Lake area’s land and rural scapes, serve as a community facility to address the area’s lack of community infrastructure and serve as a weekend market, providing a venue for exchanging secondhand merchandise and products from greenhouses and surrounding villages.



Keyword 1 :

Turf House and rural buildings



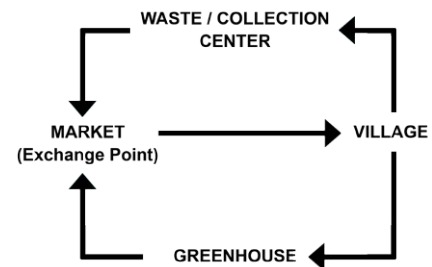
Keyword 2 :

Scenery

GYM  
CAFE  
FARM  
INDOOR CLIMBING  
YOGA  
GREEN GARDEN  
FLEA MARKET

Keyword 3 :

Community Infrastructure



Keyword 4 :

Self-Sustaining



**Design requirement**

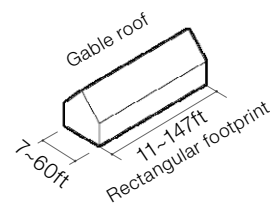
To maintain the natural landscape and rural scenery around Lake Mývatn, the new community center should reflect the size and typology of rural buildings. Therefore, we researched the rural buildings adjacent to Lake Mývatn.

**Results of the research:**

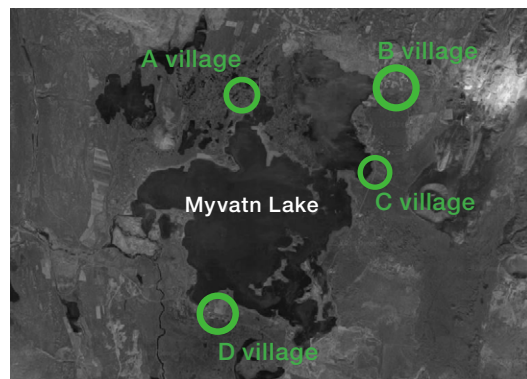
- 1) Rural buildings generally have rectangular footprints, and even small buildings that are irregularly shaped have a main rectangular building with garages or storage additions.
- 2) Buildings with rectangular footprints have gable roofs regardless of size.
- 3) Buildings with irregular footprints, regardless of size, are combinations of various rectangular gable-roof buildings.
- 4) Rural buildings typically consist of a rectangular footprint with a gable roof and range from 11 to 147 feet in length and 7 to 60 feet in width.

**Design guidelines :**

The building should have a rectangular footprint with a gable roof. Multiple buildings can be combined, but the overall building should retain a rectangular footprint and gable roof. Each single building should be 7 to 60 feet in width and 11 to 147 feet in length. These design guidelines will ensure that the new community center will harmonize with the rural characteristics of the Lake Mývatn area.



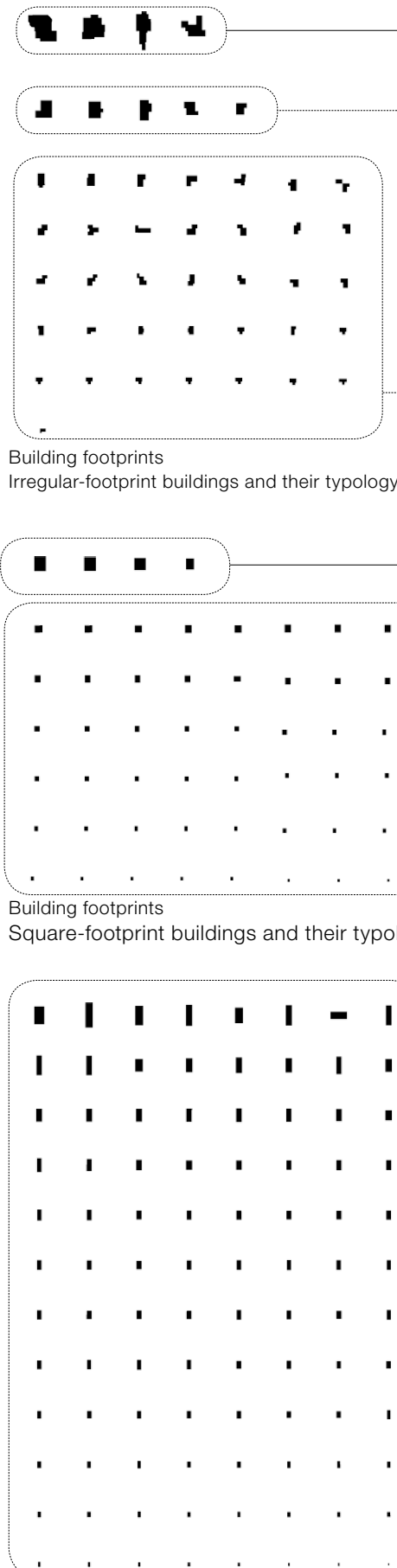
Combinations of buildings are allowable, but they should retain gable roofs and rectangular footprints. Design guideline



Village location map



Site plans of villages  
Scale 1 in : 1000 ft

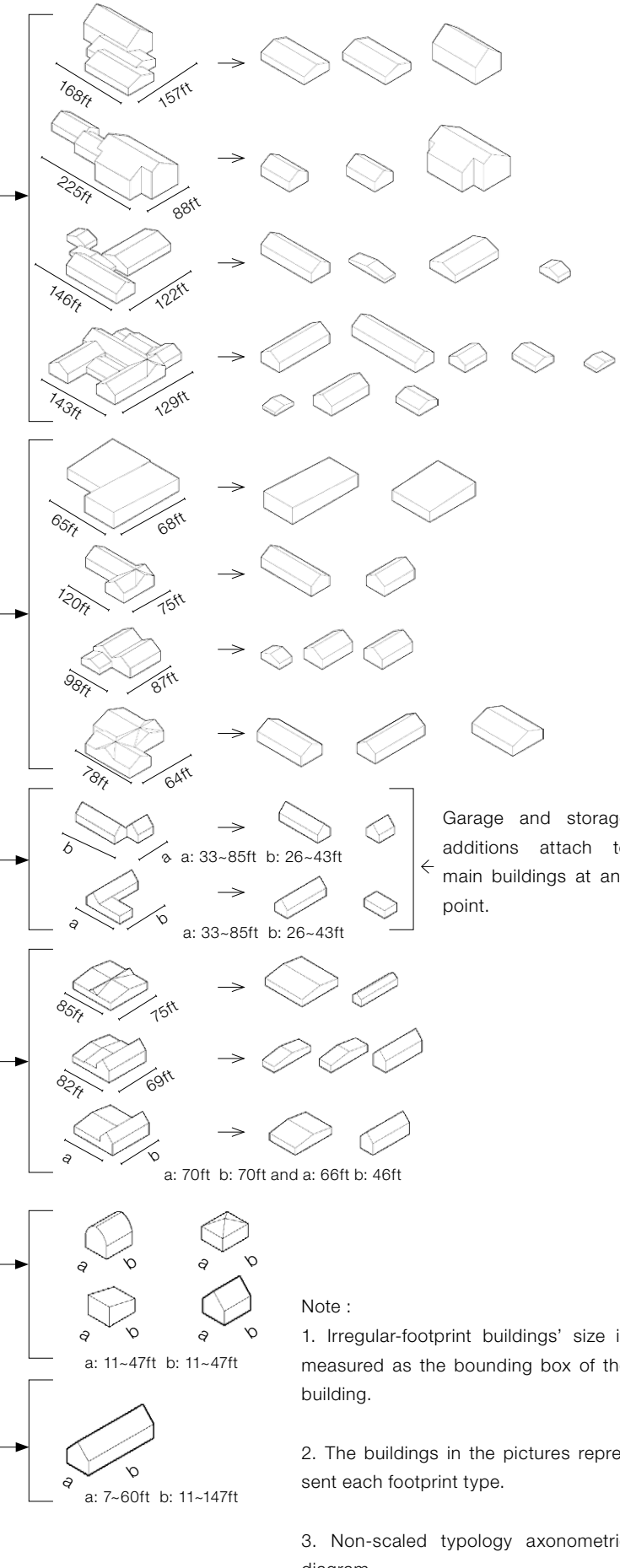


Building footprints  
Irregular-footprint buildings and their typology.  
Building footprints  
Square-footprint buildings and their typology.  
Building footprints  
Rectangular-footprint buildings and their typology.

Scale 1 in : 1000 ft (Building footprint), Non-scale (building typology)



Typical buildings of each footprint group

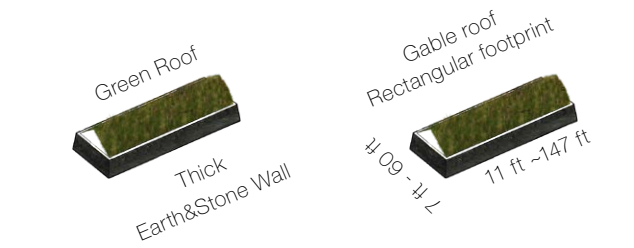


Typology and size

- Note :
1. Irregular-footprint buildings' size is measured as the bounding box of the building.
  2. The buildings in the pictures represent each footprint type.
  3. Non-scaled typology axonometric diagram

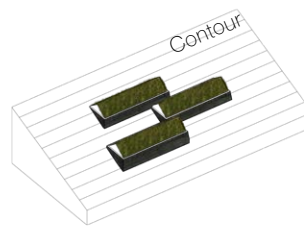
### Design strategy

To maintain the land and rural scapes, we suggest the following strategies: Create buildings that reflect the properties of turf houses, replicate rural buildings' scale and character, are adapted to the land contours, and connect to each other.

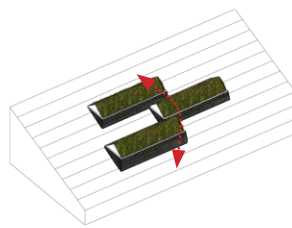


Reflect turf house properties in the proposed buildings

Reflect the rural building scale in proposed buildings



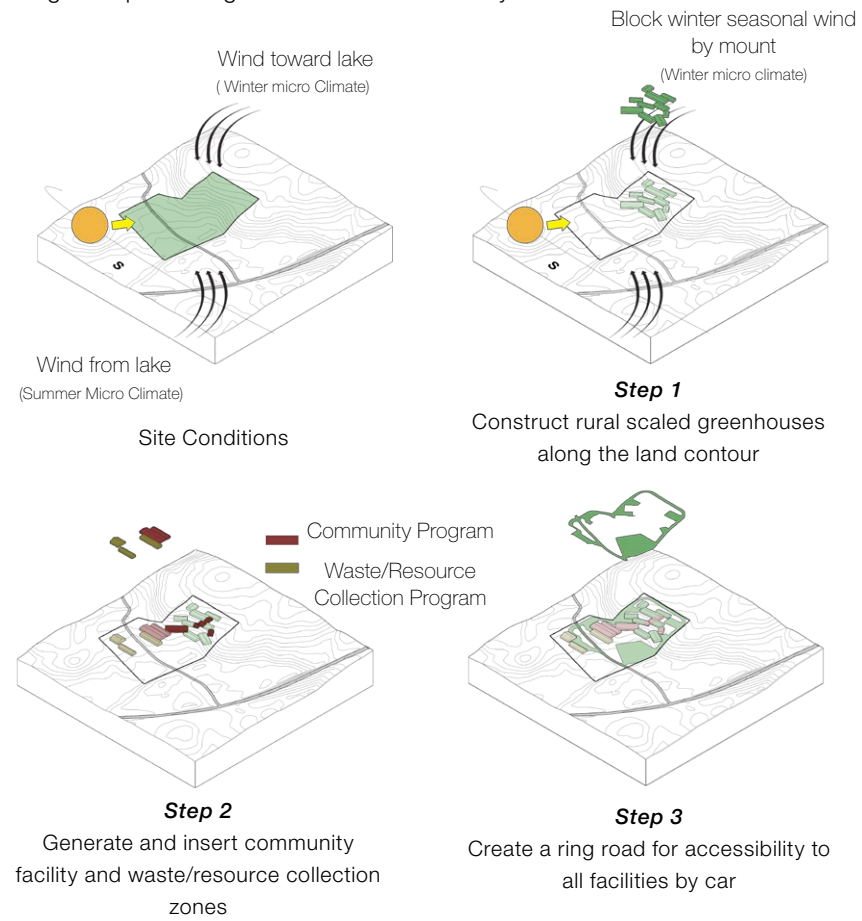
Make proposed buildings adapt to the land contour



Create connections between proposed buildings

### Design process

Considering the site conditions, we suggest first constructing rural-scaled greenhouses along the land contours, then planning and constructing community facilities and waste/resource collection zones, and, finally, creating a ring road permitting access to all facilities by car.



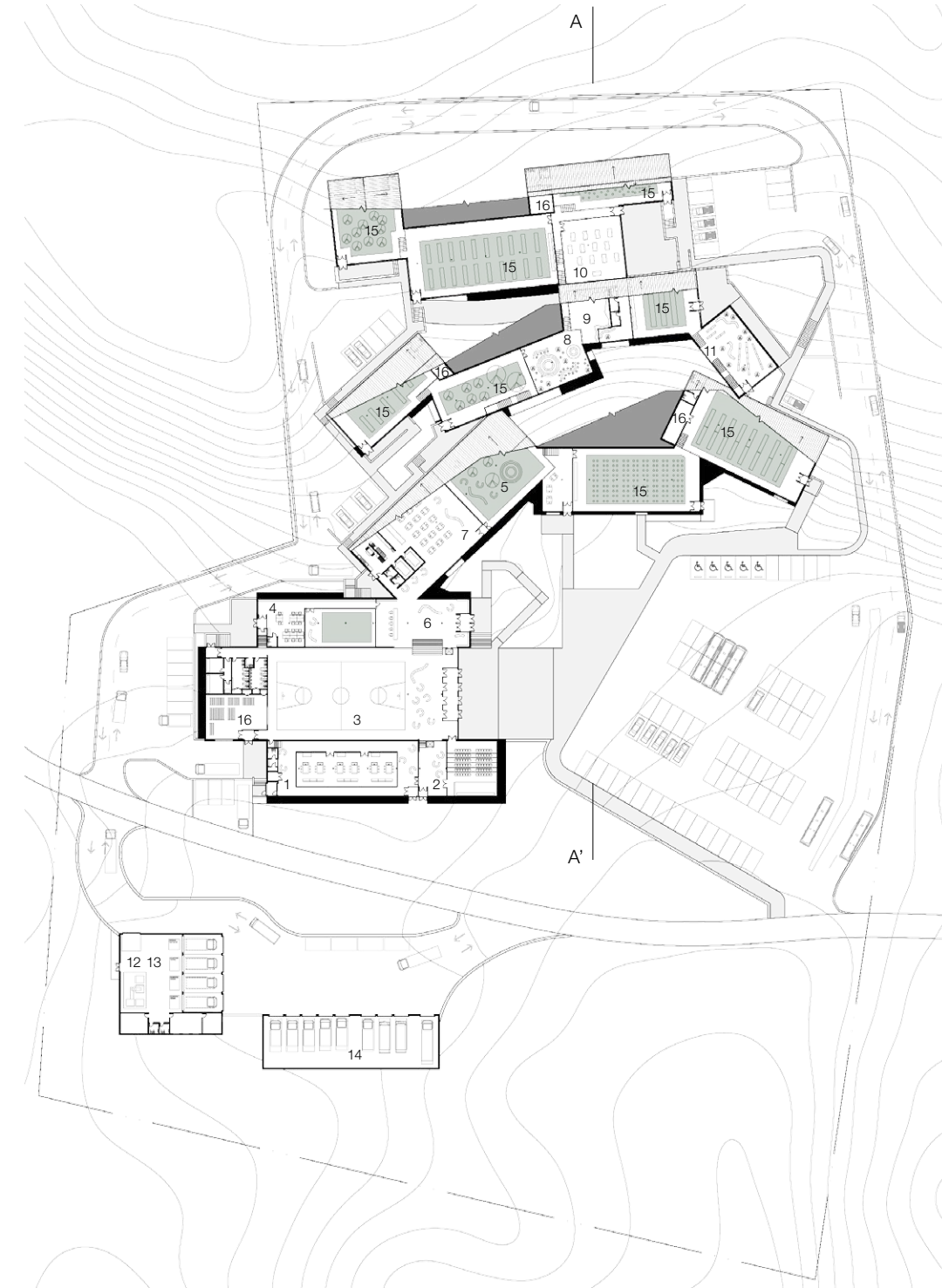
Rural-scaled buildings situated in Iceland's scenery preserve its nature.

Floor plan Scale 1 in : 120 ft  
 Section and elevation Scale 1 in : 60 ft

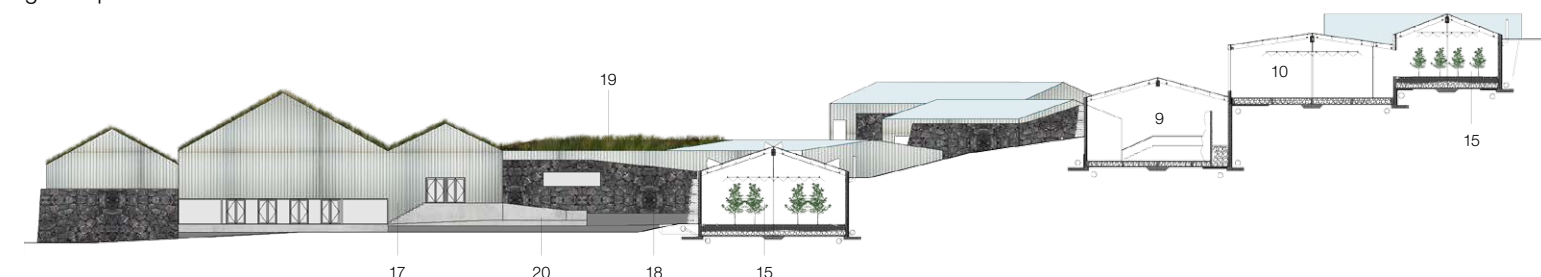
- 1 Re-birth workshop
- 2 Auditorium
- 3 Indoor gym & market
- 4 Office
- 5 Green lounge
- 6 Lobby
- 7 Kitchen & cafeteria
- 8 Kid's room
- 9 Indoor climbing
- 10 Yoga room (G.S room)
- 11 Library
- 12 Waste / resource & collection zone
- 13 Organic waste collection zone & treatment zone (1 ton)
- 14 Depo
- 15 Indoor farm
- 16 Storage
- 17 Steel corrugated panel
- 18 Volcanic stone wall
- 19 Turf
- 20 Concrete



To reflect rural buildings' characteristics and the material properties of turf houses, volcanic stone walls and steel corrugated panels, which are simple to obtain in Iceland, will be applied to the exterior walls, and a green-plant roof will be used.



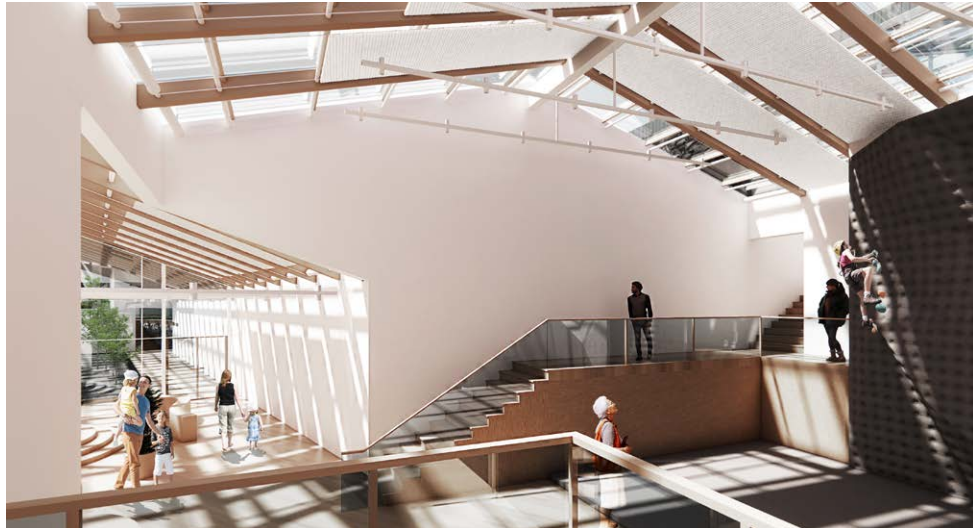
Ground Plan



AA' Section and elevation

## Programs

As the cold climate of the Mývatn Lake area makes outdoor farming difficult, the project introduces a “green lounge” where residents can grow produce, including vegetables, indoors. The space will be designed to be flexible and expandable to facilitate growth as demand increases. Residents can bring their harvests home to enjoy fresh, homegrown food or share meals with neighbors, fostering a sense of community. In addition, the farming areas will be connected to community spaces that support activities, such as indoor climbing, and include reading rooms and children’s play areas, providing residents with opportunities to relax and pursue their hobbies. At the entrance, a large space will function as a sports center for basketball and tennis on weekdays, while on weekends, it will transform into a market where residents can exchange or sell goods. The project also embraces the concept of a circular economy to reduce carbon emissions through a program called the “Re-birth Workshop”. This workshop will encourage residents to recycle and repurpose limited resources, allowing used items to be shared, reused, or transformed into new products. Residents can sort unused items into designated bins, such as glass, paper, or metal, for others to take or upcycle. For example, old clothes can be made into hand-sewn eco-bags or wine bottles can be repurposed into vases, offering both practical use options and resale potential.



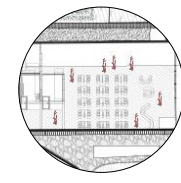
Farms will be connected with community spaces, which will also offer activities such as indoor climbing, libraries, or children’s rooms. Residents can relax or engage in their hobbies in this communal space.



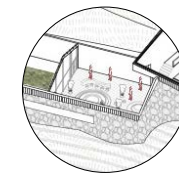
On weekdays, people can use this space as a sports center for basketball or tennis. On weekends, it can be used as a market.



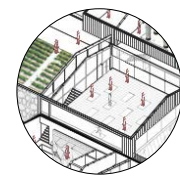
Residents will be able to put recyclable items, such as glass, paper, or metal in storage boxes. They can remake and reuse or sell these items. For example, they could make or sell hand-sewn eco-bags from old clothes or use wine bottles to create vases for use or sale.



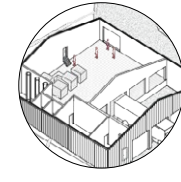
Kitchen and cafeteria



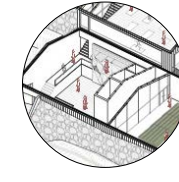
Kid's room



Yoga



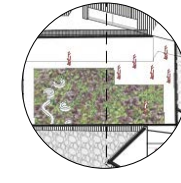
Waste/resource collection zone



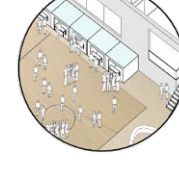
Indoor climbing



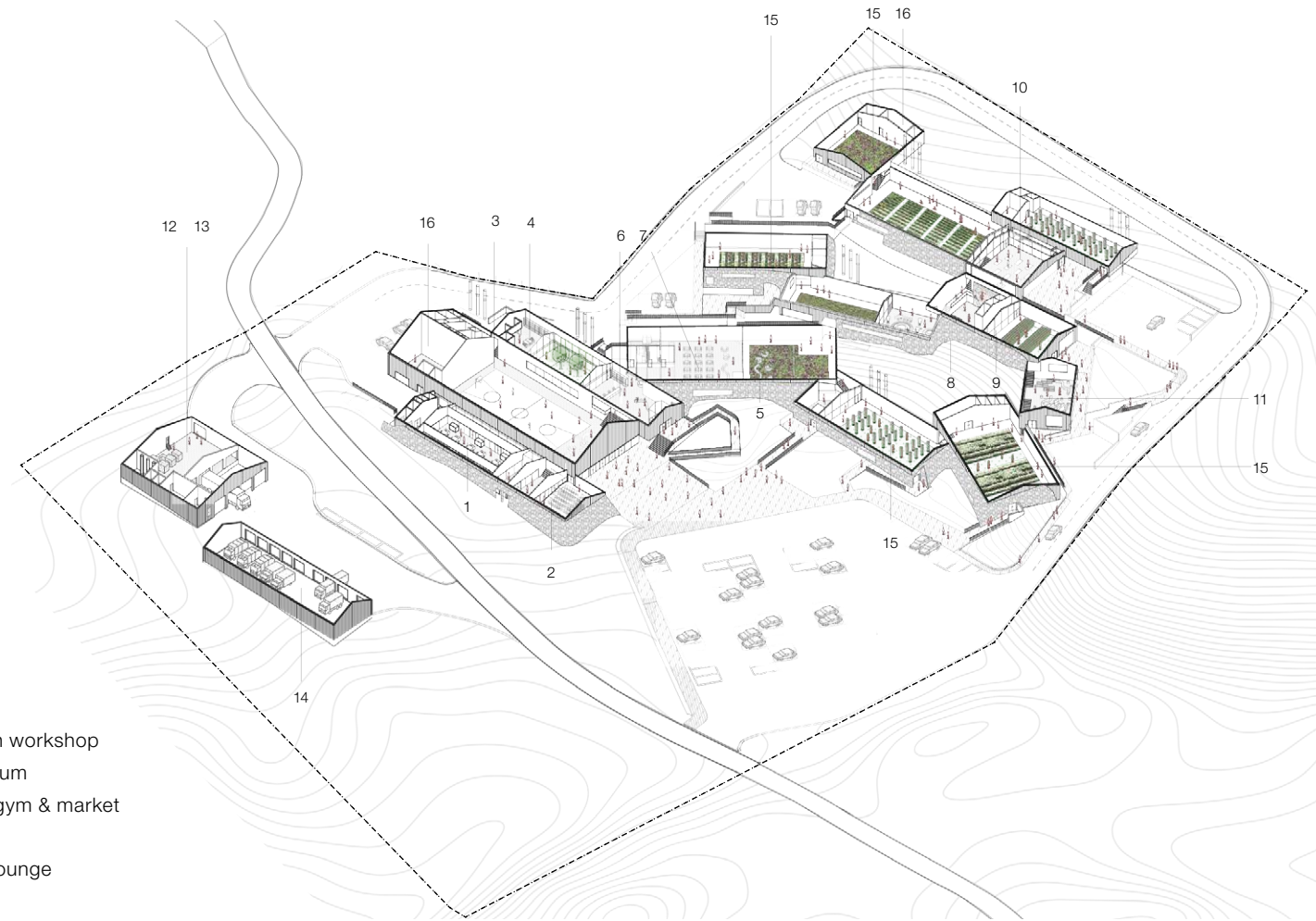
Library



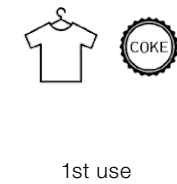
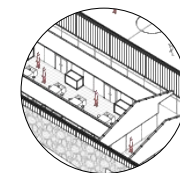
Green lounge



Indoor gym and market



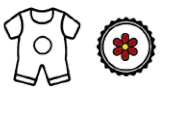
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1st use

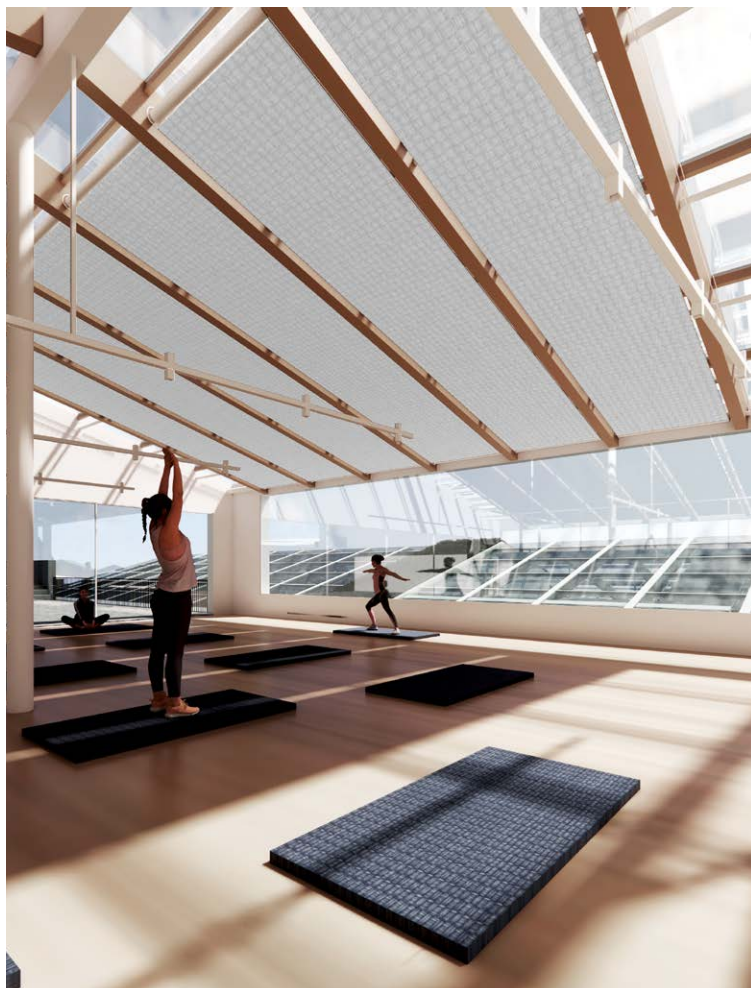


Re-production



Re-sale and re-use

The Re-birth Workshop and its operation.



The yoga studio offers a large open view of Lake Mývatn, allowing residents to relax while enjoying the scenery.



The lobby space offers an interior garden view to welcome residents and travelers.



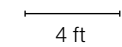
Rural-style buildings are connected to create a large interior space.

### Sustainable design

Greenhouse temperature will be controlled by automated intake and exhaust windows and vents, retractable sun screens, geothermal heating pipes, and a thermal wall. During summer, the intake and exhaust windows and vents will ventilate the greenhouse. Retractable sun screens will block direct sunlight in the daytime and block white-night light at night. During winter, sunlight and geothermal heating pipes will heat the greenhouse, and thermal walls will emit heat at night while the retractable sun screens prevent heat loss.

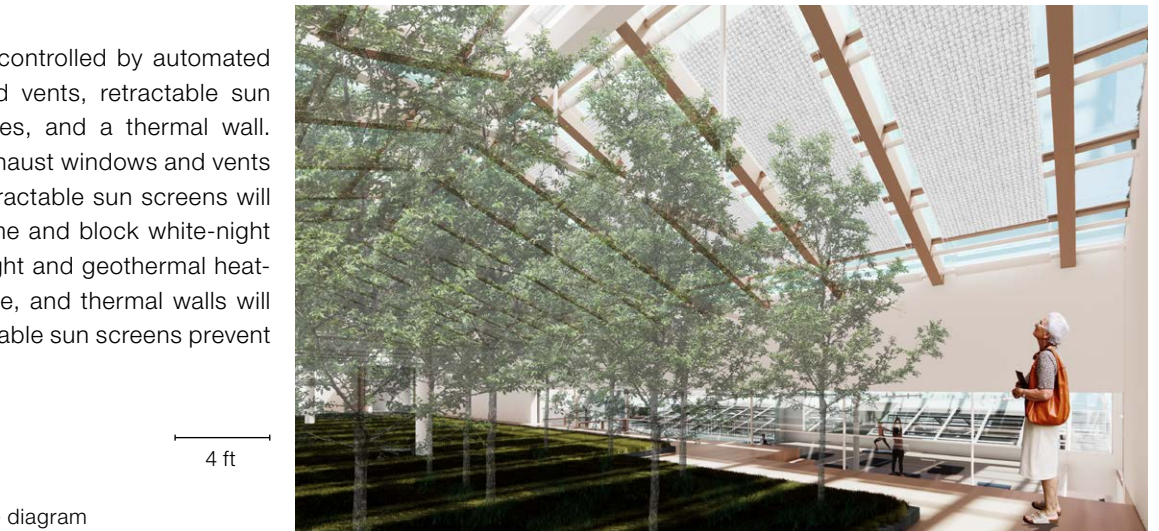
Enlarged typical section

Scale 1/8 in : 1 ft



Sustainable system and roof structure diagram

- 1 Automated intake roof glazing
- 2 Automated exhaust roof glazing
- 3 Automated intake vent
- 4 Automated support exhaust vent
- 5 Thermal wall
- 6 Retractable sun screen
- 7 Geothermal heating pipe
- 8 Wood rafter
- 9 Wood purlin
- 10 King beam and steel post



Indoor farms and gardens are maintained using automatic glazing, vents, geothermal heating, and retractable sun screen

