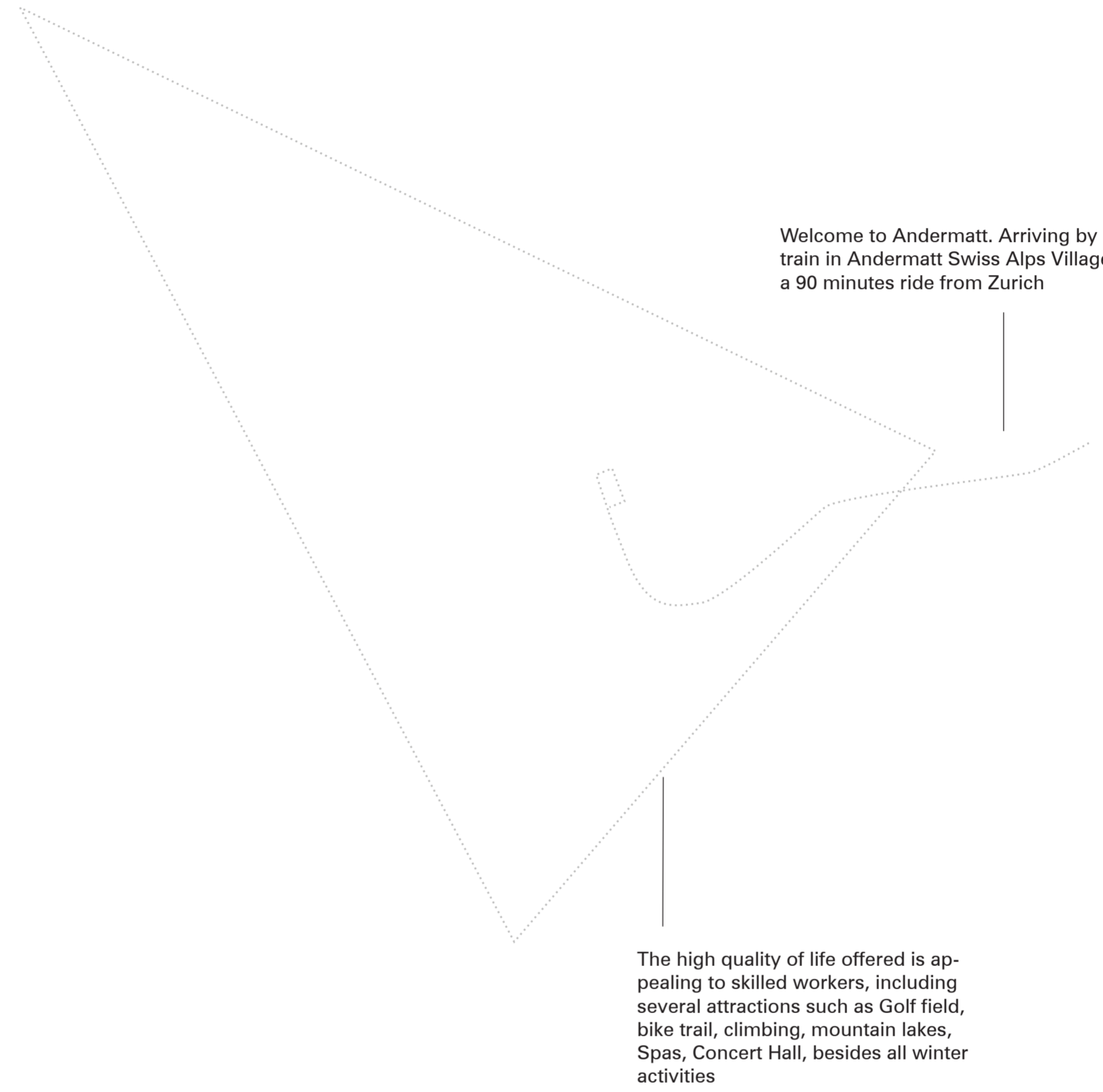
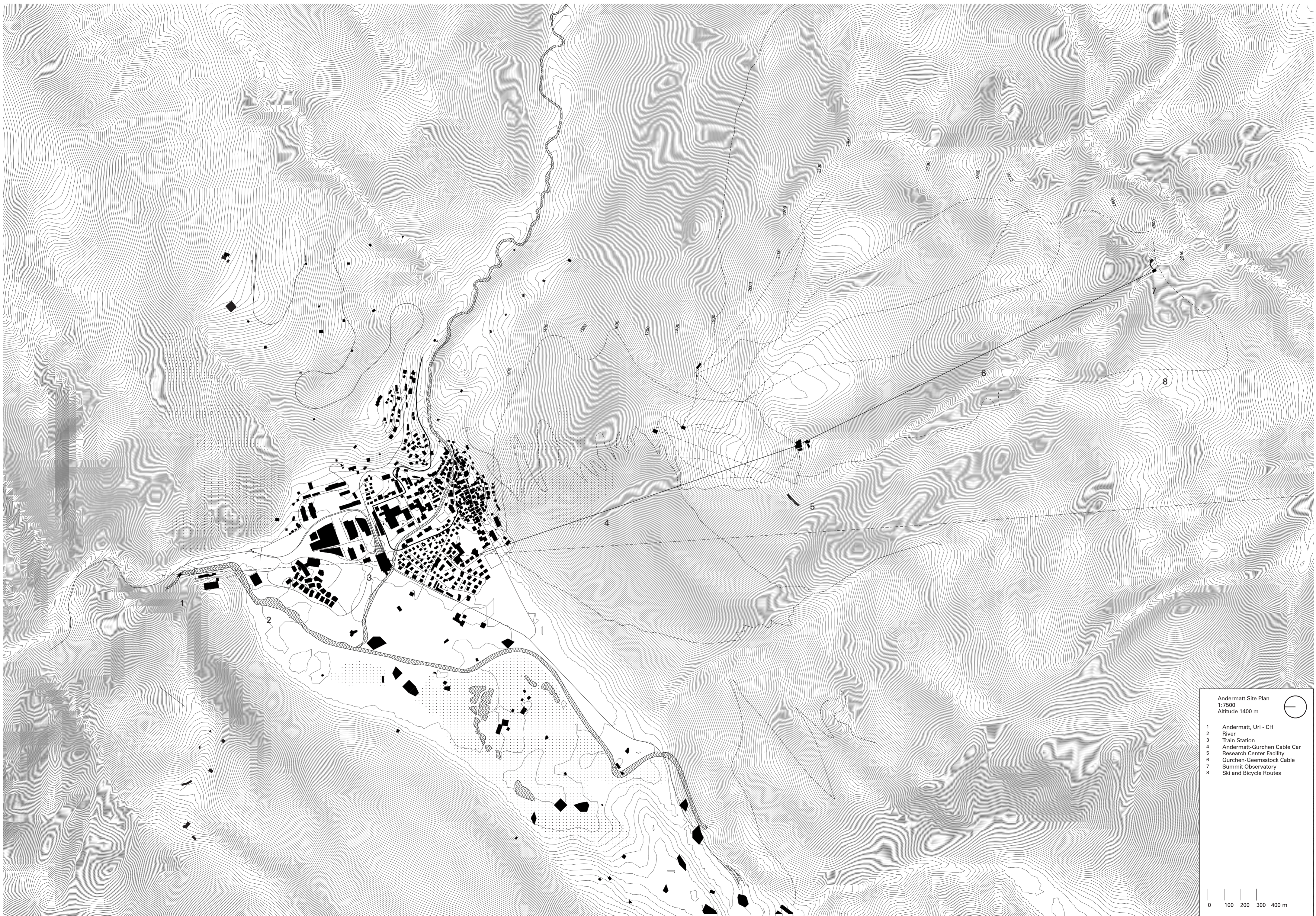


Try It Out






Andermatt Site Plan
1:7500
Altitude 1400 m

1 Andermatt, Uri - CH
2 River
3 Train Station
4 Andermatt-Gurchen Cable Car
5 Research-Center Facility
6 Gurchen-Geemsstock Cable
7 Summit Observatory
8 Ski and Bicycle Routes

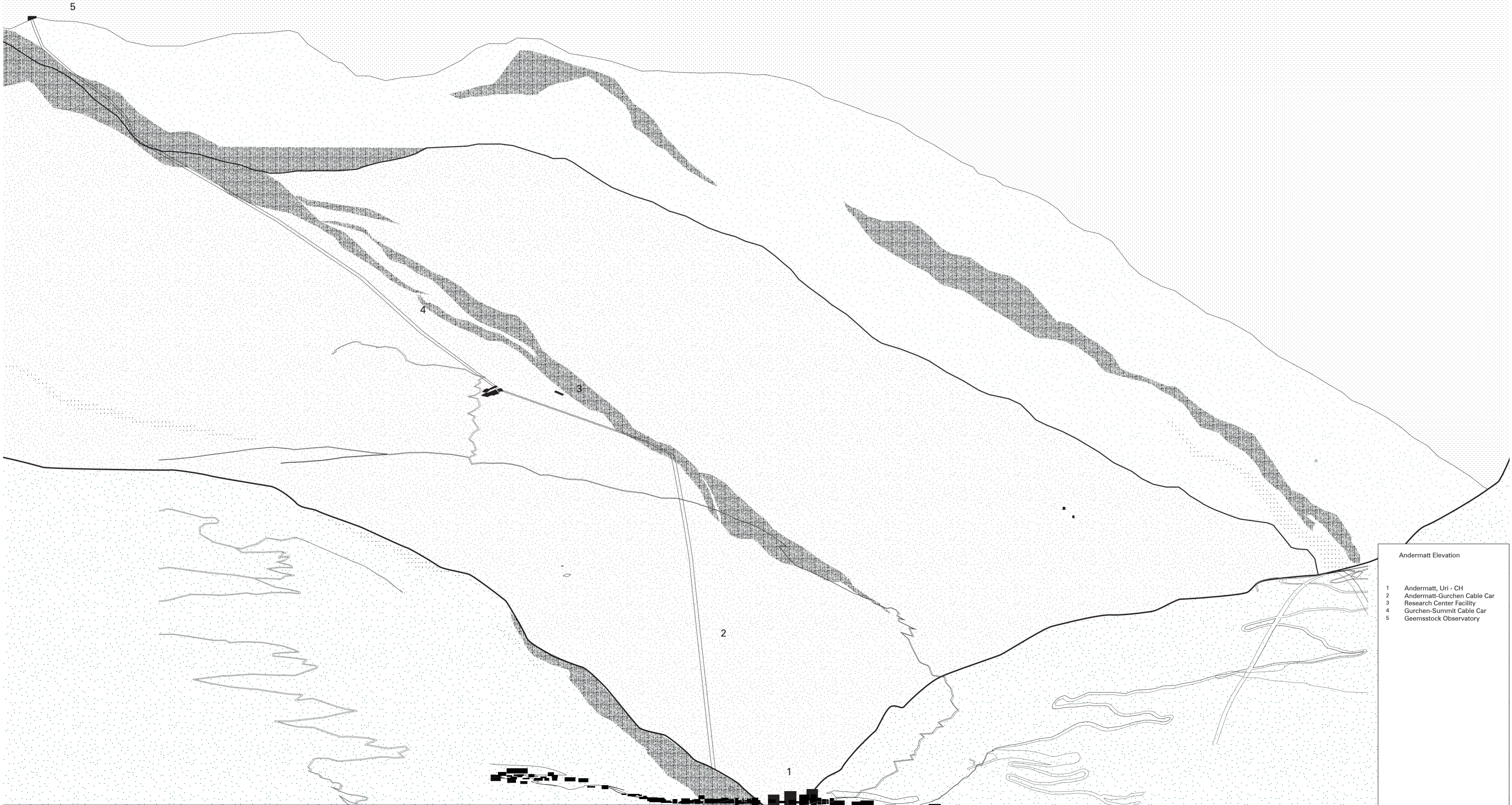
0 100 200 300 400 m





Due to its altitude, Gemsstock mountain presents reliable snow coverage throughout the year, assuring ideal conditions for external testing

A cable car from Andermatt village provides access to Gurchen, the middle point of the Gemsstock mountain, then continues to the summit



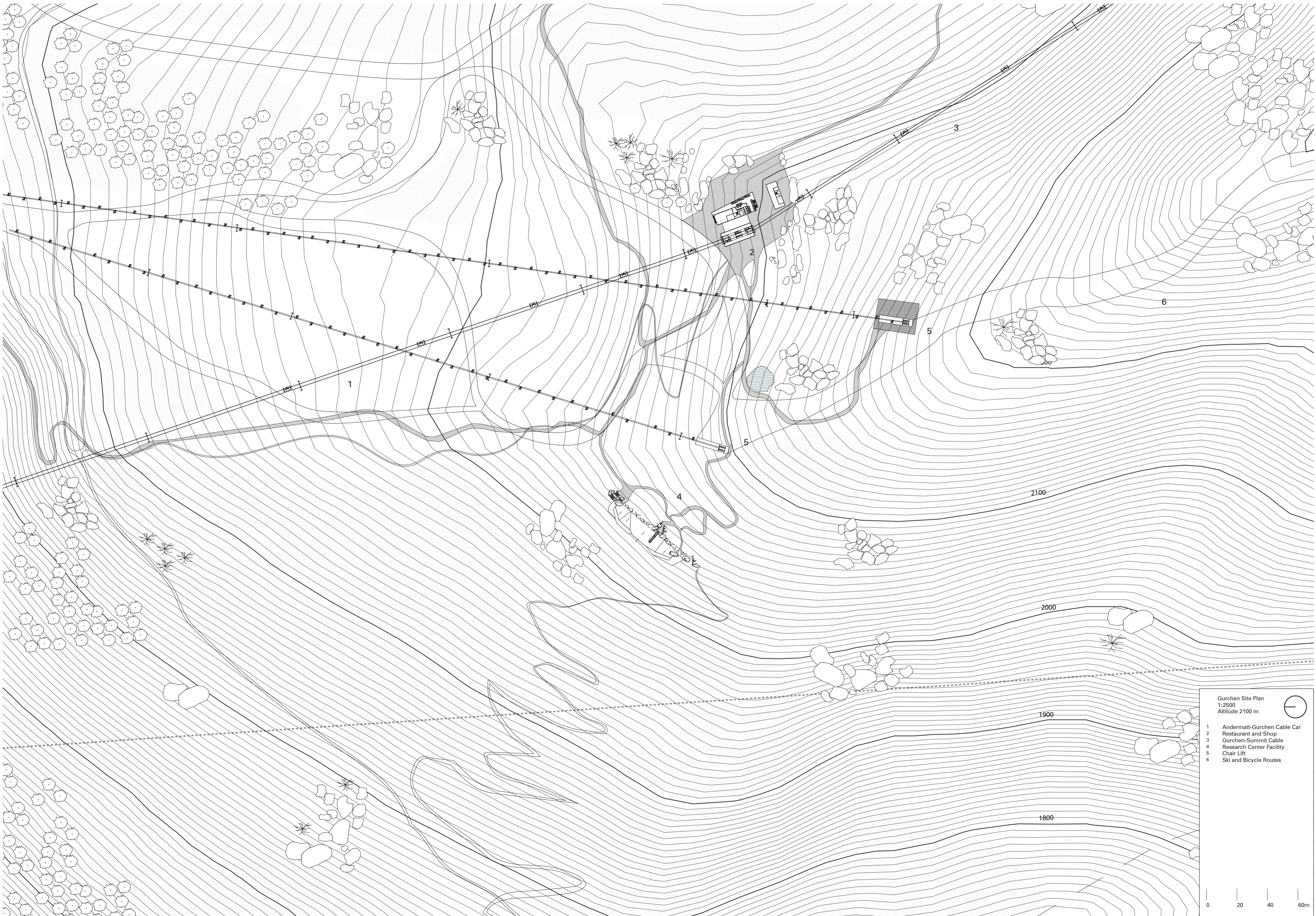
- Andermatt Elevation
- 1 Andermatt, Uri - CH
 - 2 Andermatt-Gurchen Cable Car
 - 3 Research Center Facility
 - 4 Gurchen-Summit Cable Car
 - 5 Geemsstock Observatory




Ski routes, bicycle trails, and lifts surround the facility, benefiting the testing during natural conditions

Arriving at the Gurchen cable car station, you will find the ski arena, restaurant, and equipment rental

From the cable car station pathways lead to the Research Center

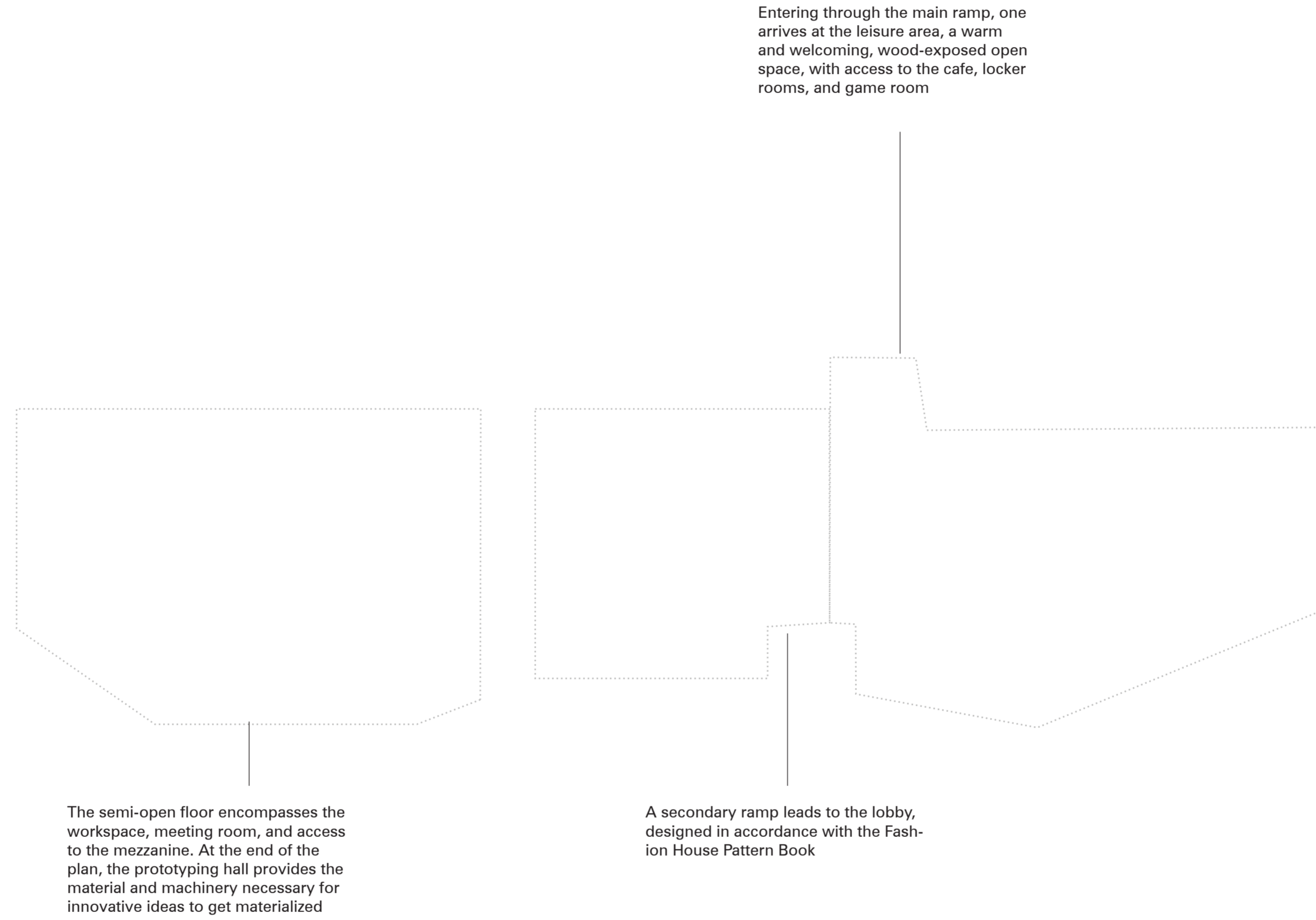


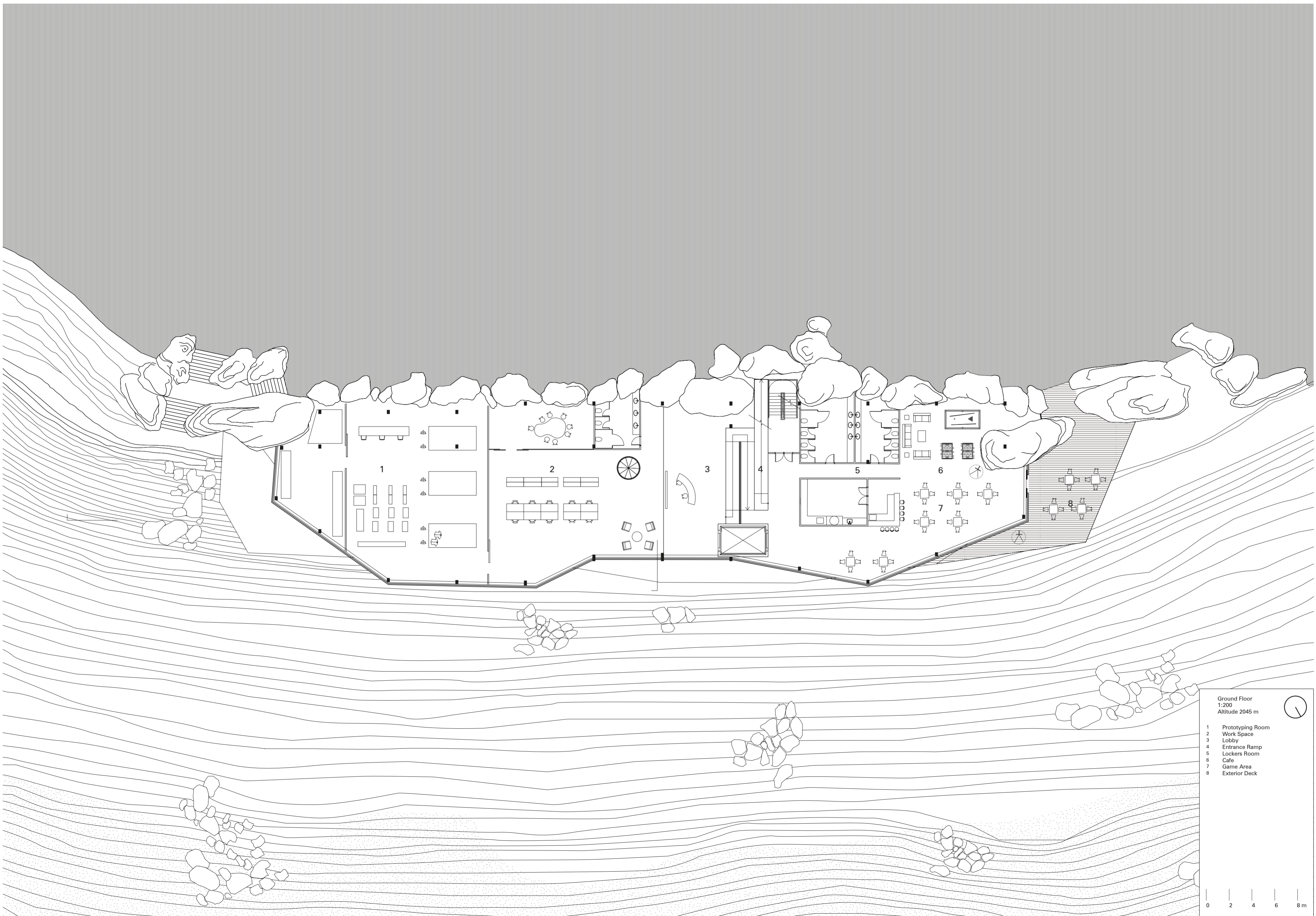
Gurchen Site Plan
1:2500
Altitude 2100 m



- 1 Andermatt-Gurchen Cable Car
- 2 Restaurant and Shop
- 3 Gurchen-Summit Cable
- 4 Research Center Facility
- 5 Chair Lift
- 6 Ski and Bicycle Routes

0 20 40 60m

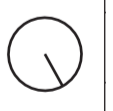


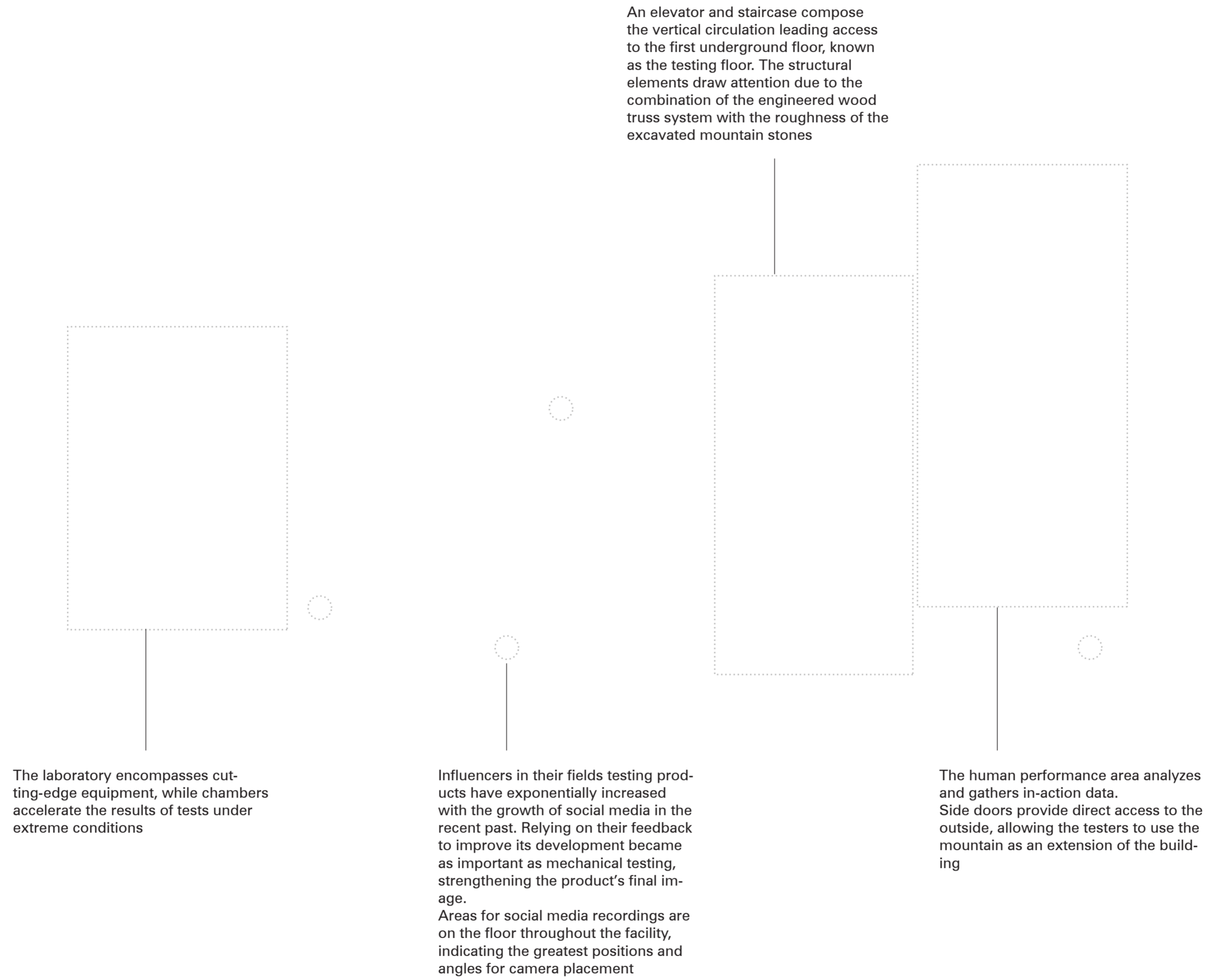


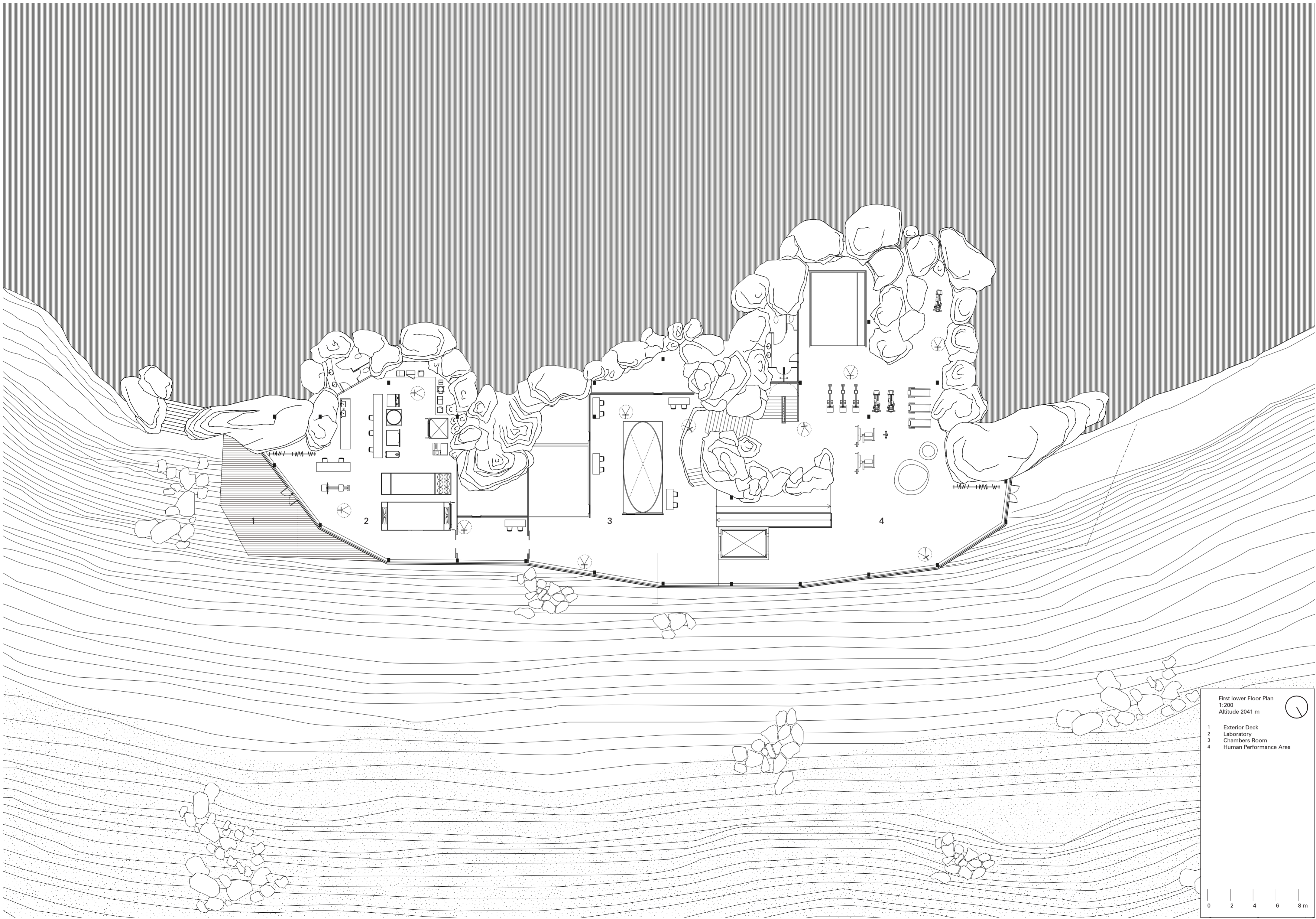
Ground Floor
1:200
Altitude 2045 m

- 1 Prototyping Room
- 2 Work Space
- 3 Lobby
- 4 Entrance Ramp
- 5 Lockers Room
- 6 Cafe
- 7 Game Area
- 8 Exterior Deck

0 2 4 6 8 m



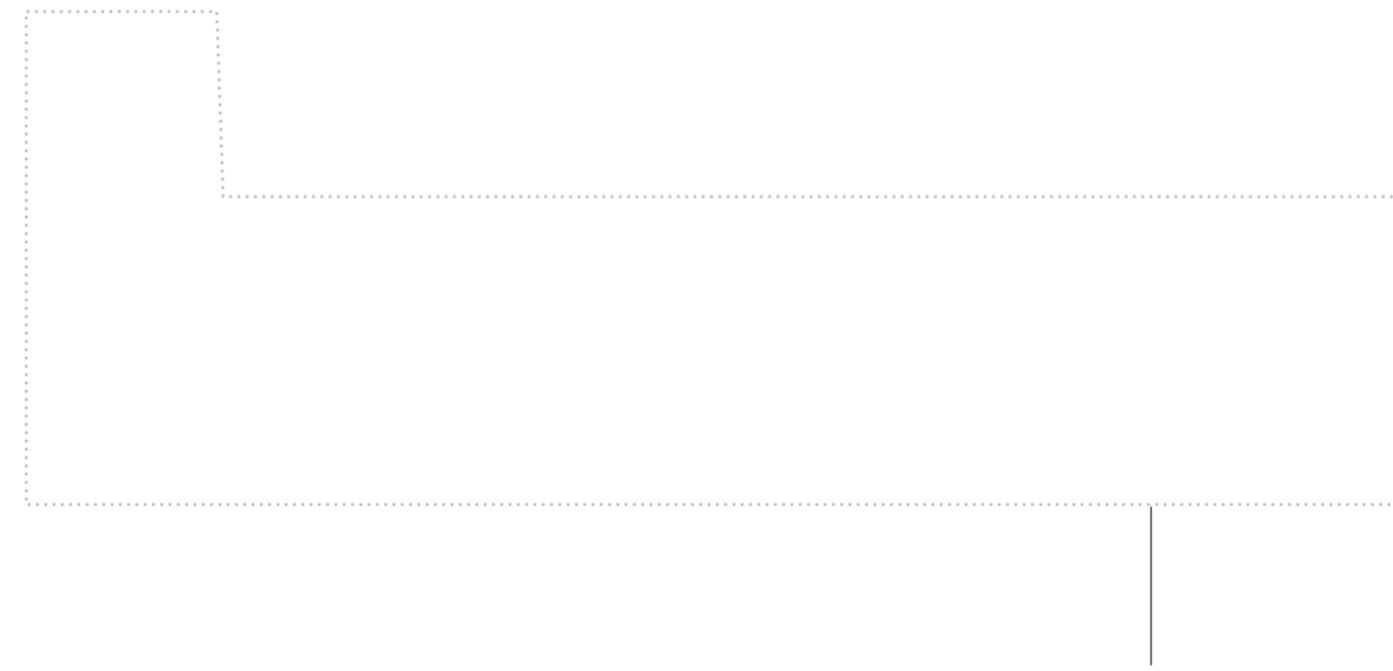




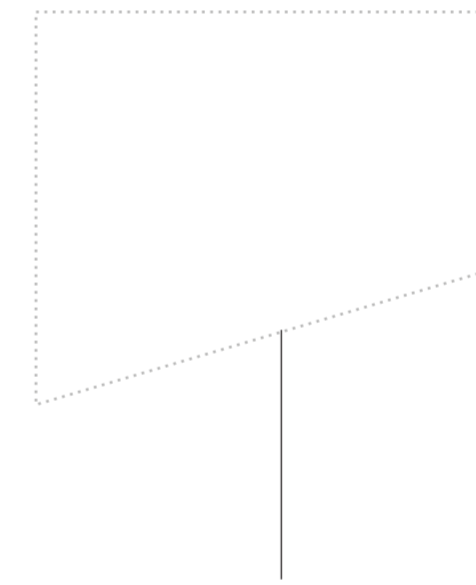
First lower Floor Plan
1:200
Altitude 2041 m

- 1 Exterior Deck
- 2 Laboratory
- 3 Chambers Room
- 4 Human Performance Area

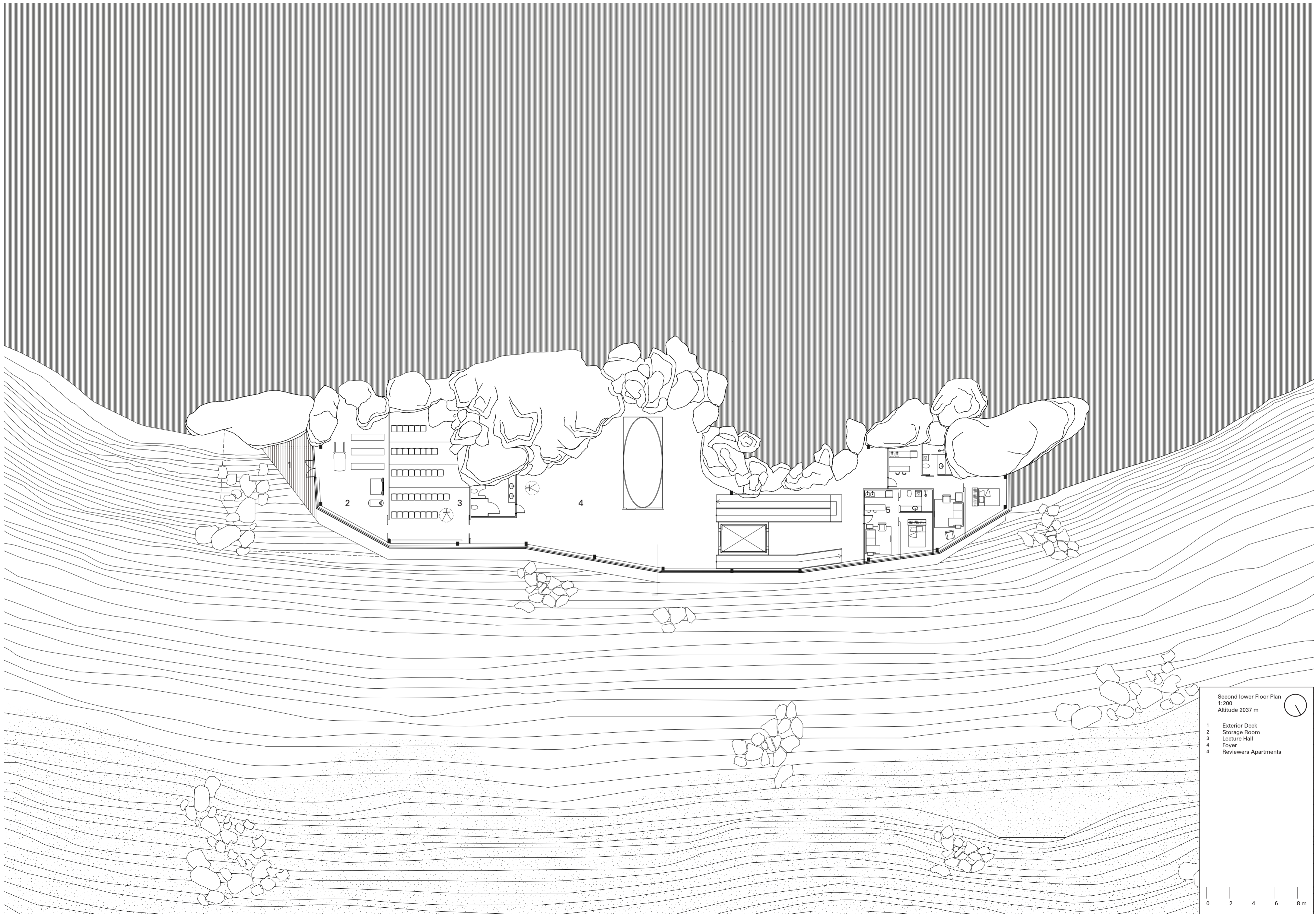


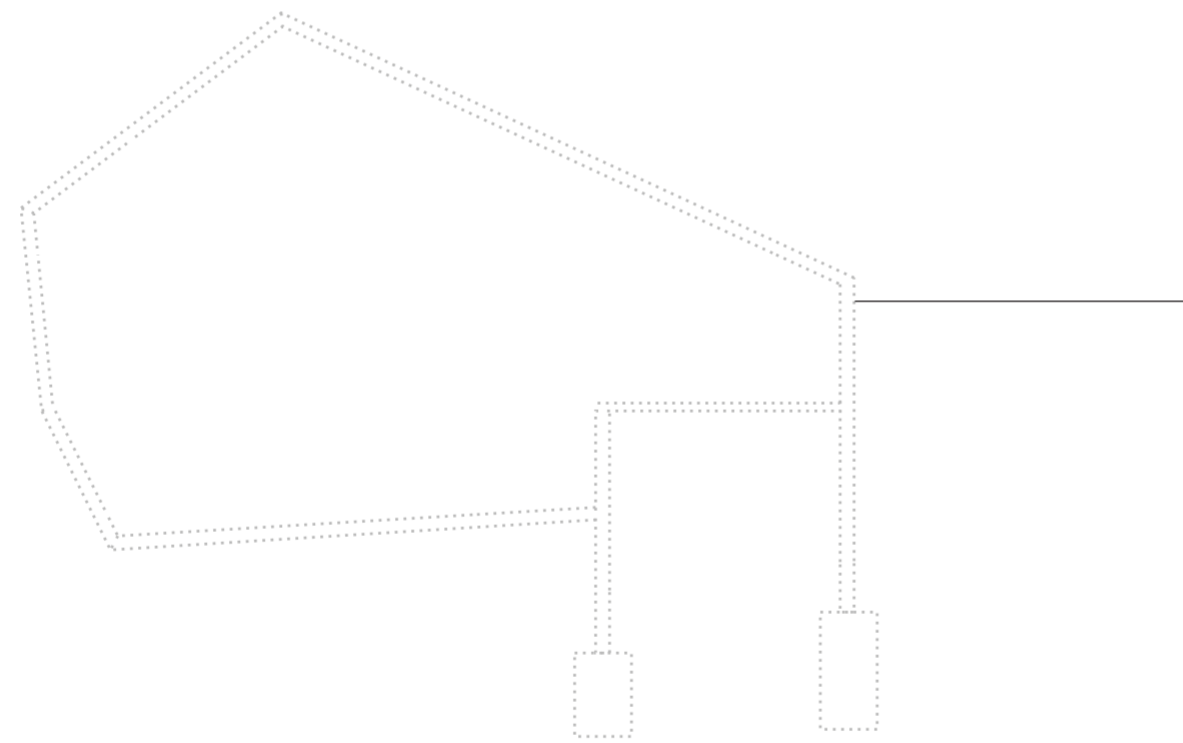


An elevator and ramps give access to the lower floor plan. The spacious foyer and lecture hall provide opportunities for events such as products launch, conferences, and more



Temporary apartments for reviewers are located on the lower floor of the facility, providing privacy and guaranteeing a privileged view





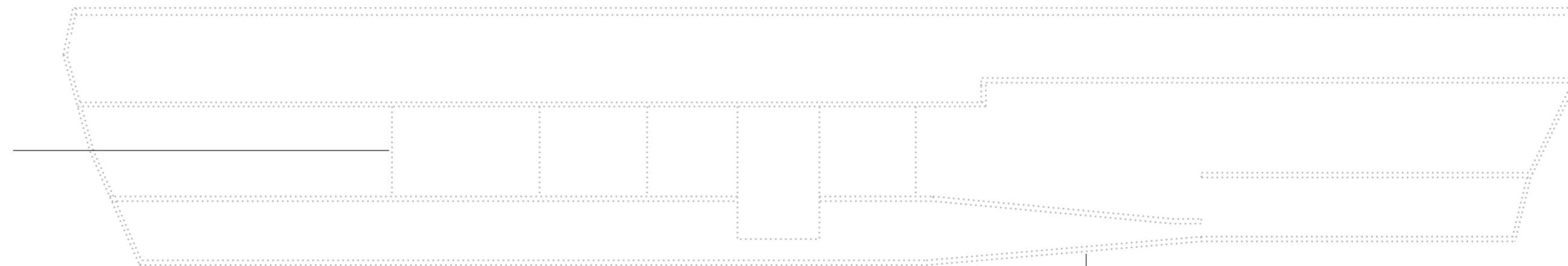
Composed of 12 wood trusses, the structure system is braced by a concrete foundation. Due to engineering wood, it is light-to-carry, cost-effective, allowing for longer spans, and with speed of construction. The different modules create a dynamic structure that works with instead of against the wind and snow



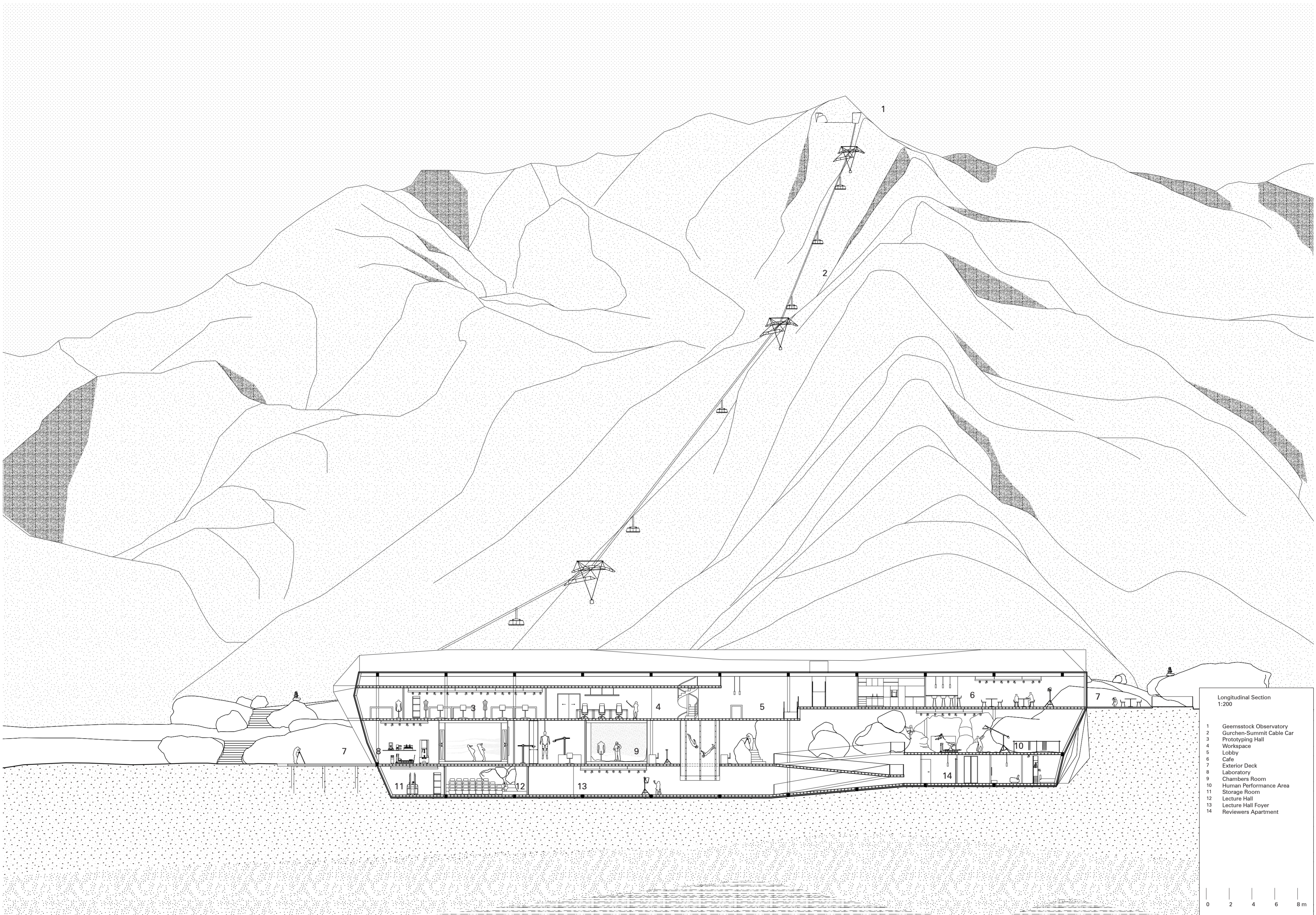
- Cross Section
1:200
- 1 Workspace Mezzanine
 - 2 Workspace
 - 3 Vertical Wind Tunnel Chamber
 - 4 Rain Chamber
 - 5 Lecture Hall Foyer
 - 6 Andermatt-Gurchen Cable Car
 - 7 Gurchen-Summit Cable Car



Chambers test wind and fire resistance, freezing point, and vertical wind tunnel, measuring performance within the highest equipment



The facility dialogues with the topography and is internally organized in half levels, facilitating access through a set of ramps



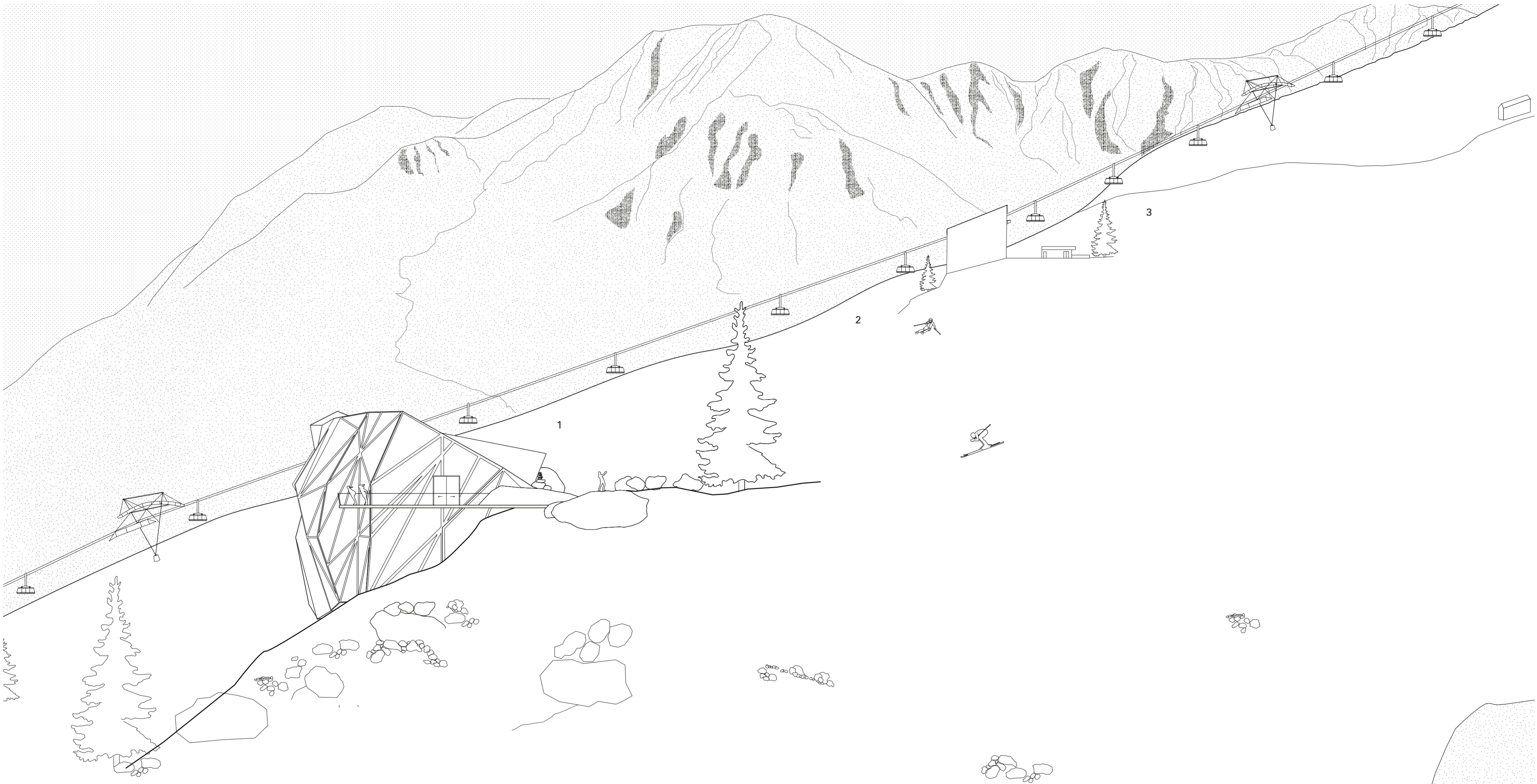
Longitudinal Section
1:200

- 1 Geemsstock Observatory
- 2 Gurchen-Summit Cable Car
- 3 Prototyping Hall
- 4 Workspace
- 5 Lobby
- 6 Cafe
- 7 Exterior Deck
- 8 Laboratory
- 9 Chambers Room
- 10 Human Performance Area
- 11 Storage Room
- 12 Lecture Hall
- 13 Lecture Hall Foyer
- 14 Reviewers Apartment

0 2 4 6 8 m

Highly performative in energy efficiency and sustainability, The facade responds to environmental stimuli, transforming the building from static to ever-moving surfaces.
The kinetic facade performs both regulating internal temperature as well as iconically in the landscape, composing the scenario for virtual broadcasting





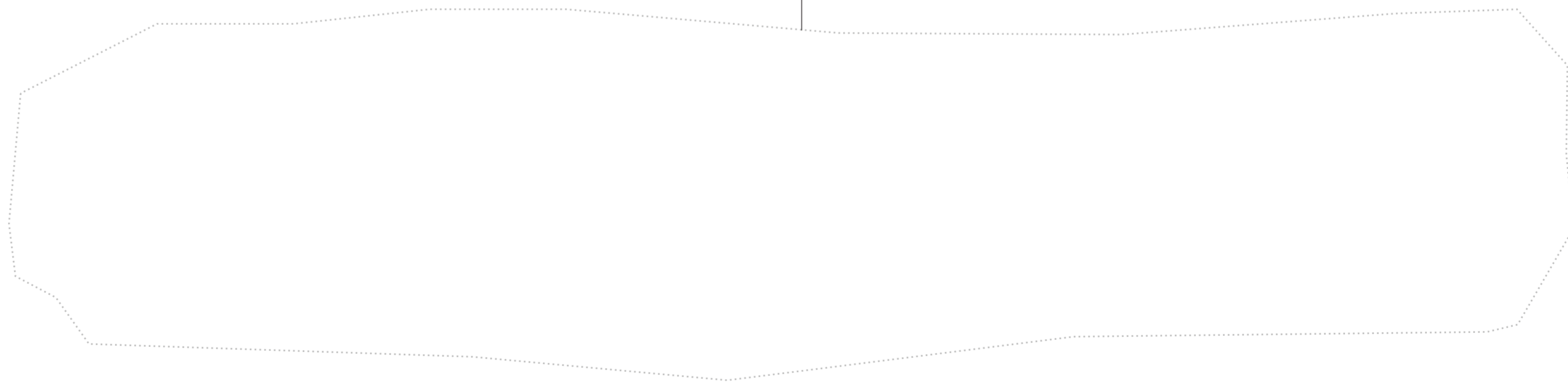
East Elevation
1:200

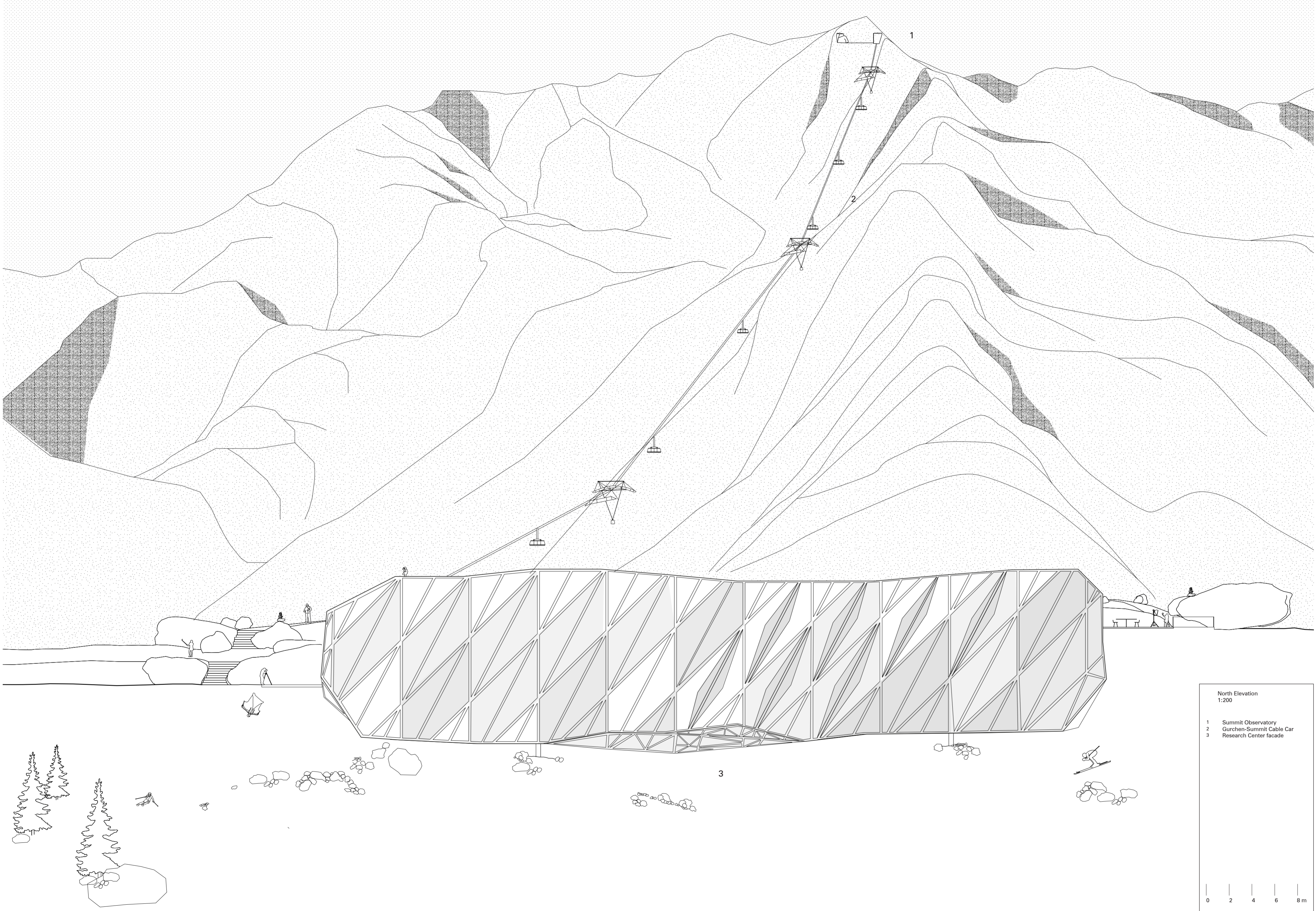
- 1 Research Center facade
- 2 Andermatt-Gurthen Cable Car
- 3 Gurthen-Summit Cable Car

0 2 4 6 8 m



The Kinetic facade system uses a combination of aluminum for fixed and mechanic parts, stretched - non-stain - translucent fabric, and glass

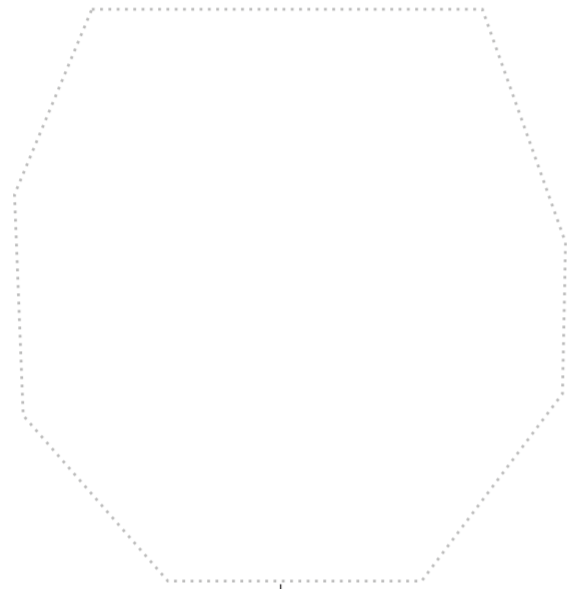




North Elevation
1:200

1 Summit Observatory
2 Gurchen-Summit Cable Car
3 Research Center facade

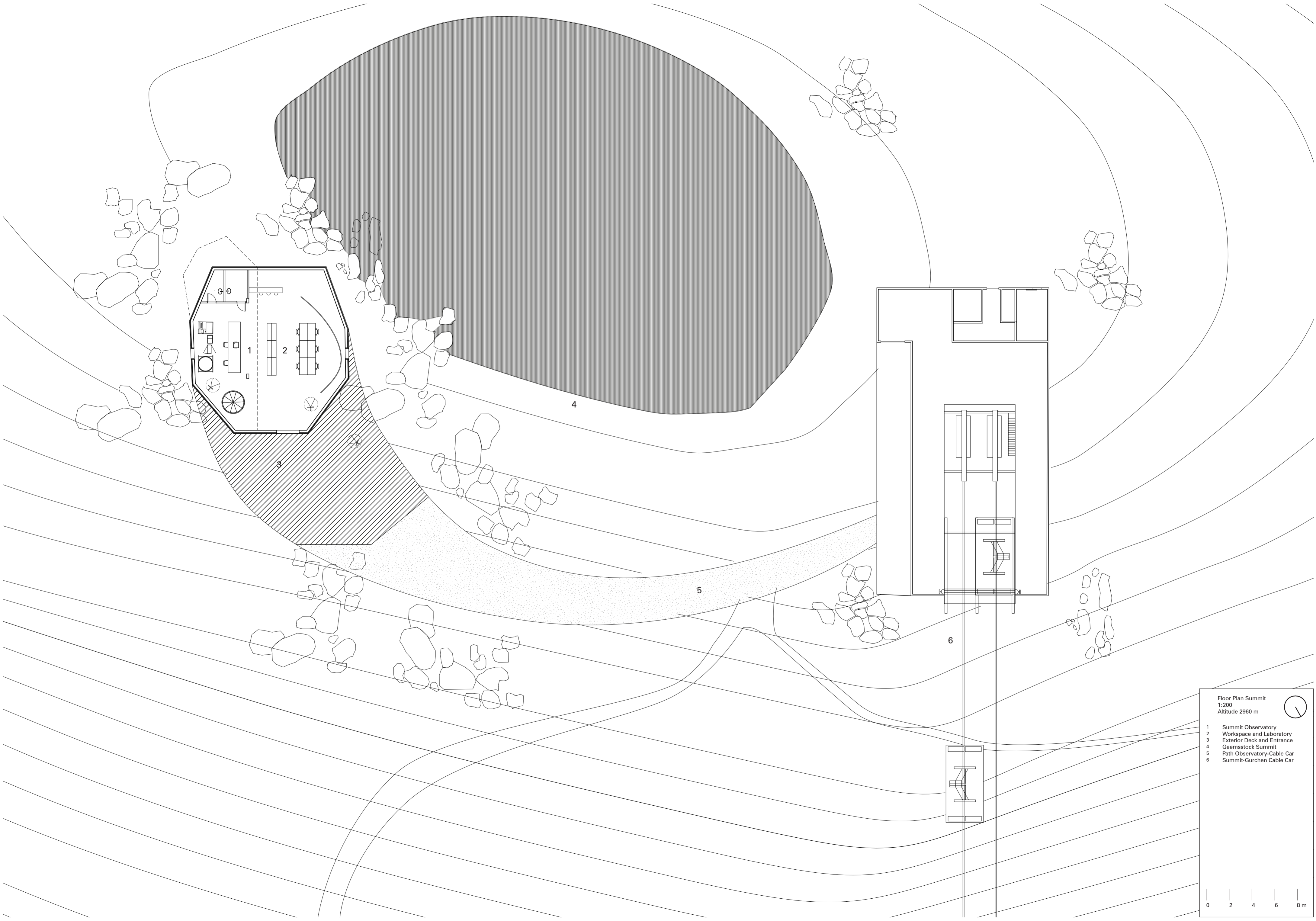
0 2 4 6 8 m



The Summit Observatory sits by the summit of the Geemsstock mountain at an altitude of 2960 meters

To test under the extremest conditions, one will continue its journey on the cable car to the summit, arriving at the Gemsstock station, where the Summit Observatory constantly monitors the mountain data and conduct testing under lower visibility, heavy wind, specific air pressure, among others






Floor Plan Summit
1:200
Altitude 2960 m

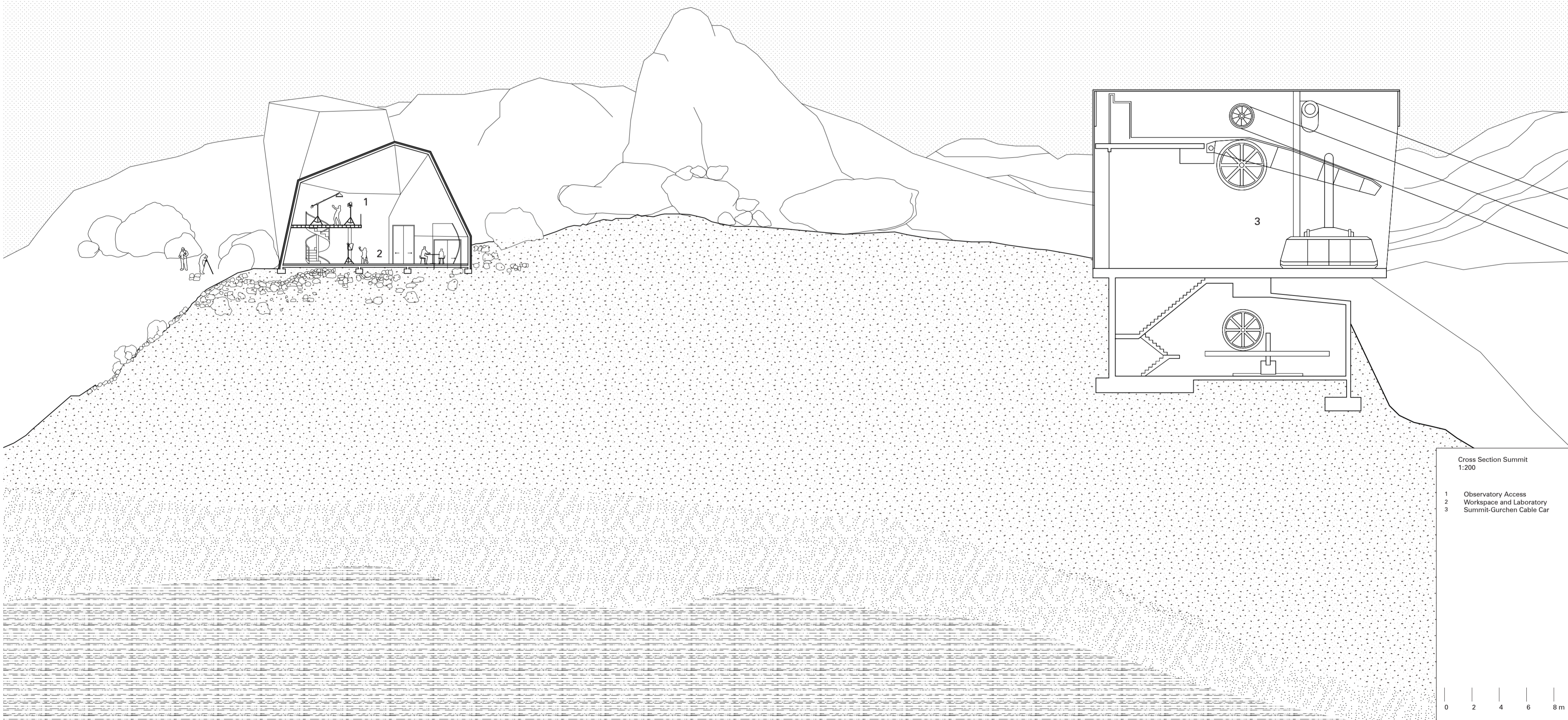
- 1 Summit Observatory
- 2 Workspace and Laboratory
- 3 Exterior Deck and Entrance
- 4 Geemsstock Summit
- 5 Path Observatory-Cable Car
- 6 Summit-Gurchen Cable Car

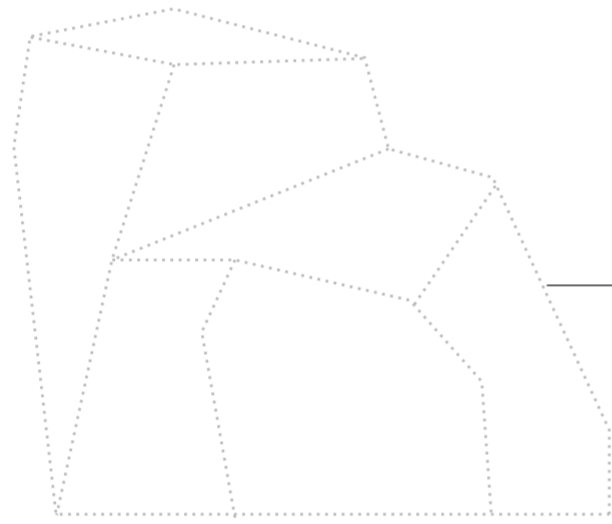
0 2 4 6 8 m



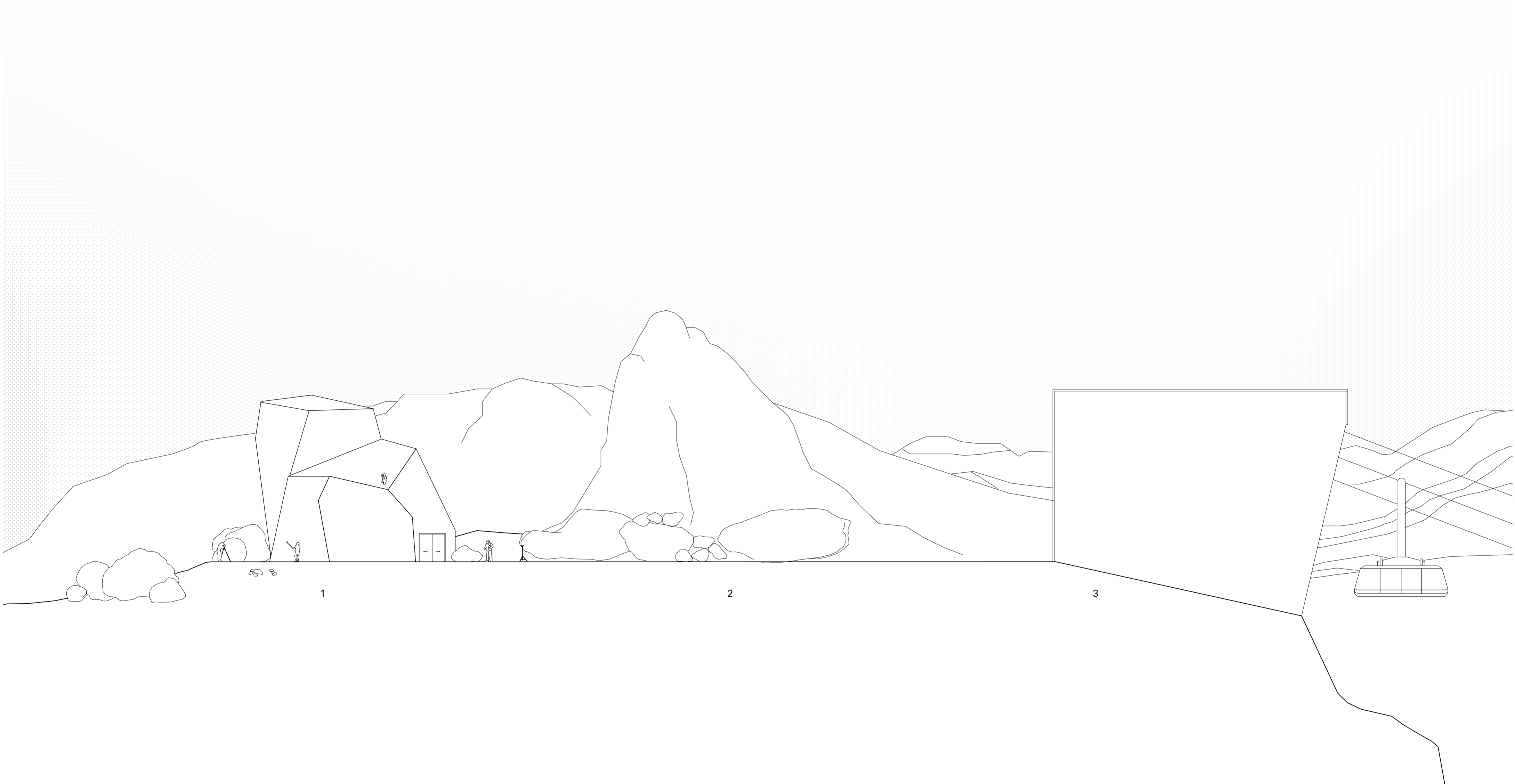


Besides ensuring viral videos, the facility encompasses a workspace, a mezzanine for weather monitoring, and a laboratory





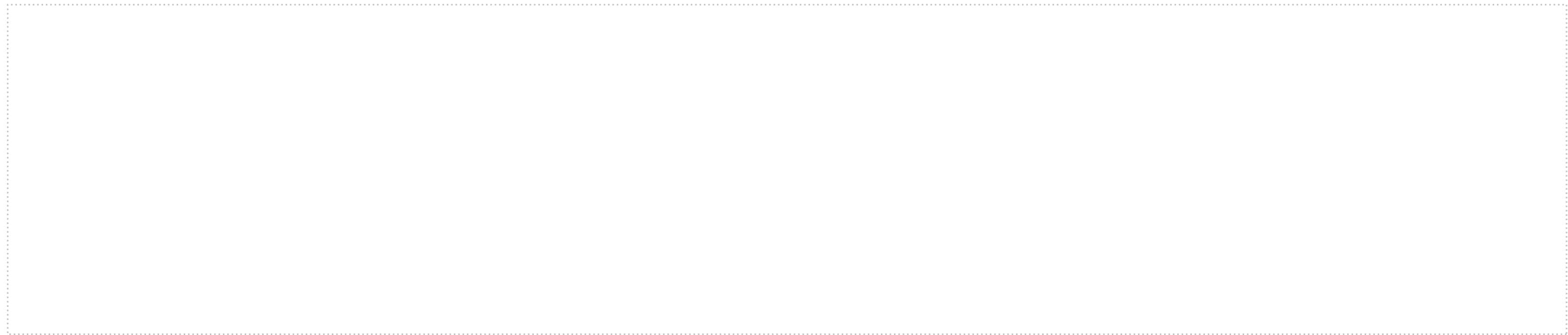
The Summit Observatory facility partially uses AI 3D technology in its design. It consists of robotically prefabricated interlocking wood panels covered with aluminum plate cladding



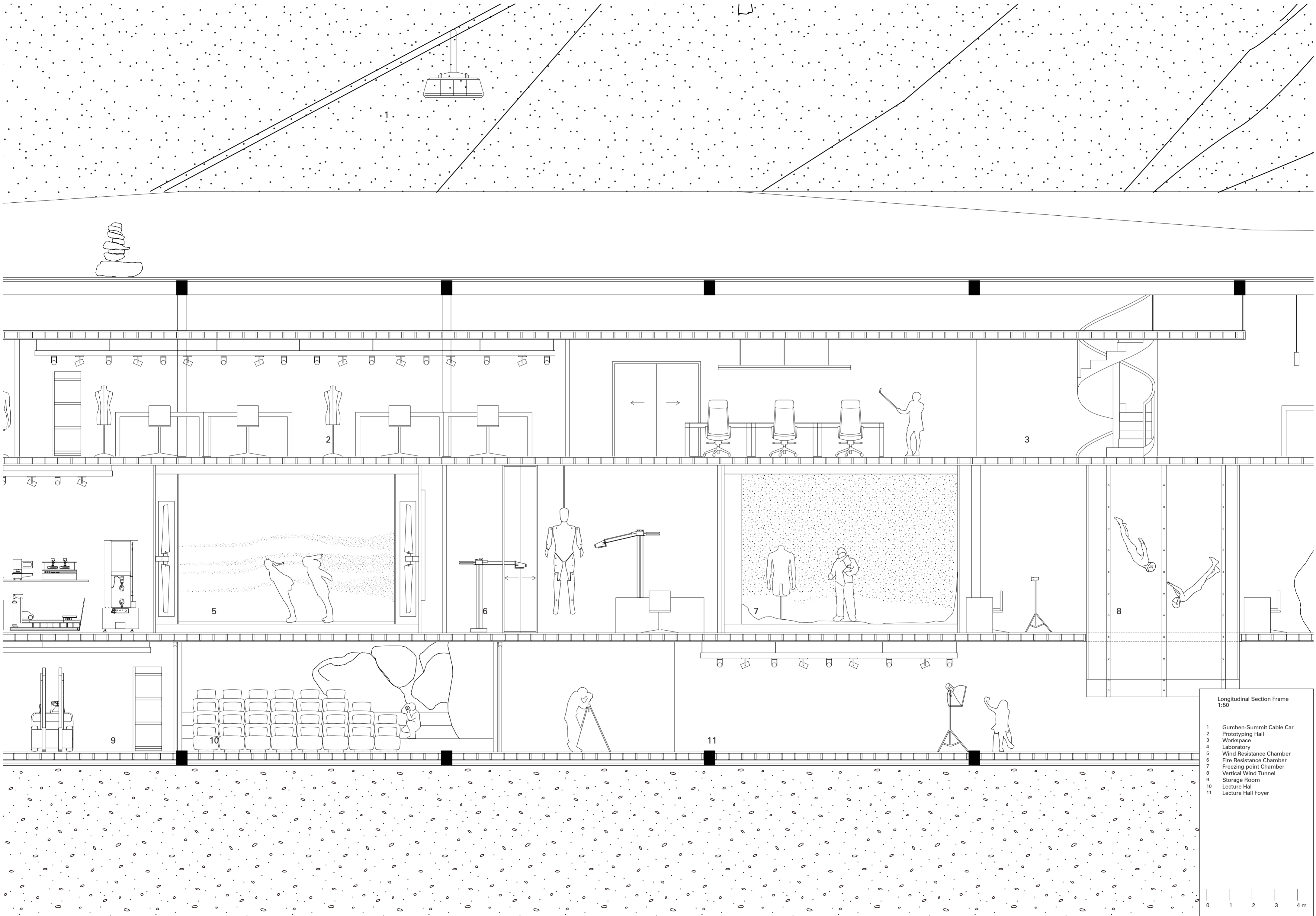
North Elevation Summit
1:200

- 1 Summit Observatory
- 2 Path Observatory-Cable Car
- 3 Summit-Gurchen Cable Car

0 2 4 6 8 m



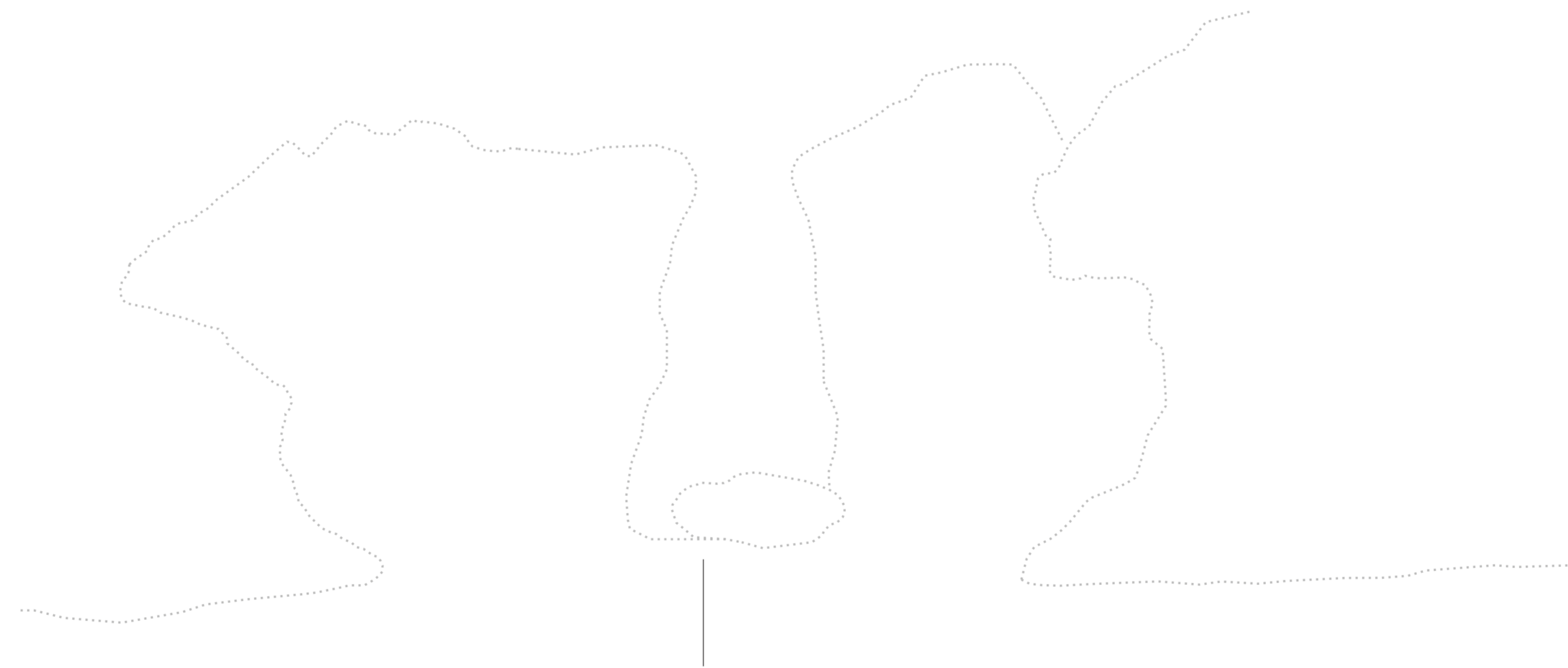
The Laboratory floor contains several chambers to accelerate the exposure of garments to weatherability. Wind and fire resistance, freezing point, and vertical wind tunnel are some of the available chambers



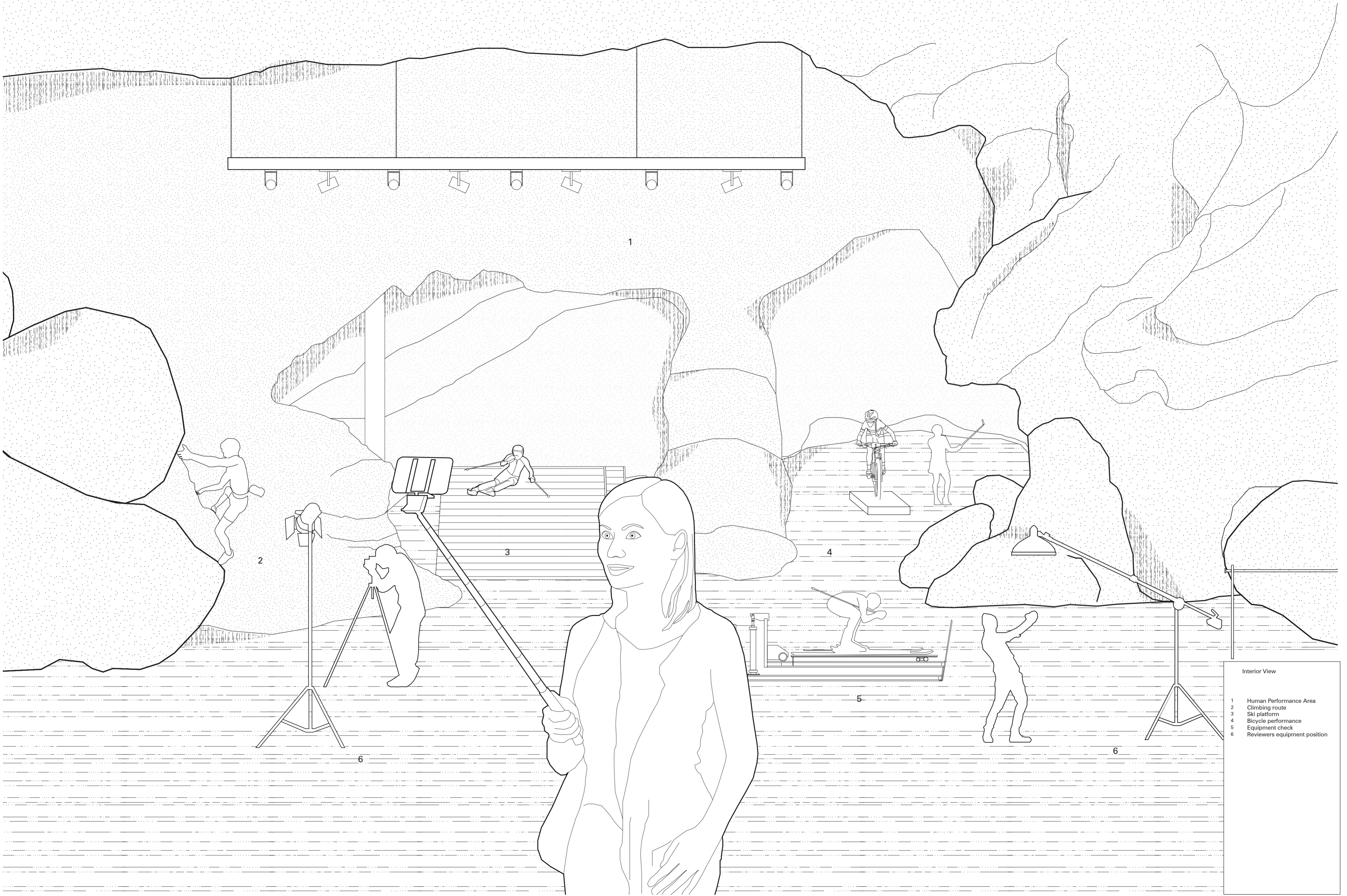
Longitudinal Section Frame
1:50

- 1 Gurchen-Summit Cable Car
- 2 Prototyping Hall
- 3 Workspace
- 4 Laboratory
- 5 Wind Resistance Chamber
- 6 Fire Resistance Chamber
- 7 Freezing point Chamber
- 8 Vertical Wind Tunnel
- 9 Storage Room
- 10 Lecture Hall
- 11 Lecture Hall Foyer

0 1 2 3 4 m



The human performance area analyzes and gathers in-action data using cutting-edge technology in an excavated open space. Reviewers and technicians enjoy the cave-like scenario for testing performance and broadcasting results



1

2

3

4

5

6

6

Interior View

- 1 Human Performance Area
- 2 Climbing route
- 3 Ski platform
- 4 Bicycle performance
- 5 Equipment check
- 6 Reviewers equipment position

Due to restrained vehicle access, a helicopter carries the pre-fabricated construction materials to be assembled on-site

