

BIODIVERSITY AND RENEWABLE ENERGY LEARNING CENTER
SIERRA LEONE



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TOMMY TRENCHARD

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TOMMY TRENC

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1. ICON

2. SUSTAINABLE CONSTRUCTION

3. LEARNINGS

4. POSSIBILITIES

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1. ICON

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1. ICON

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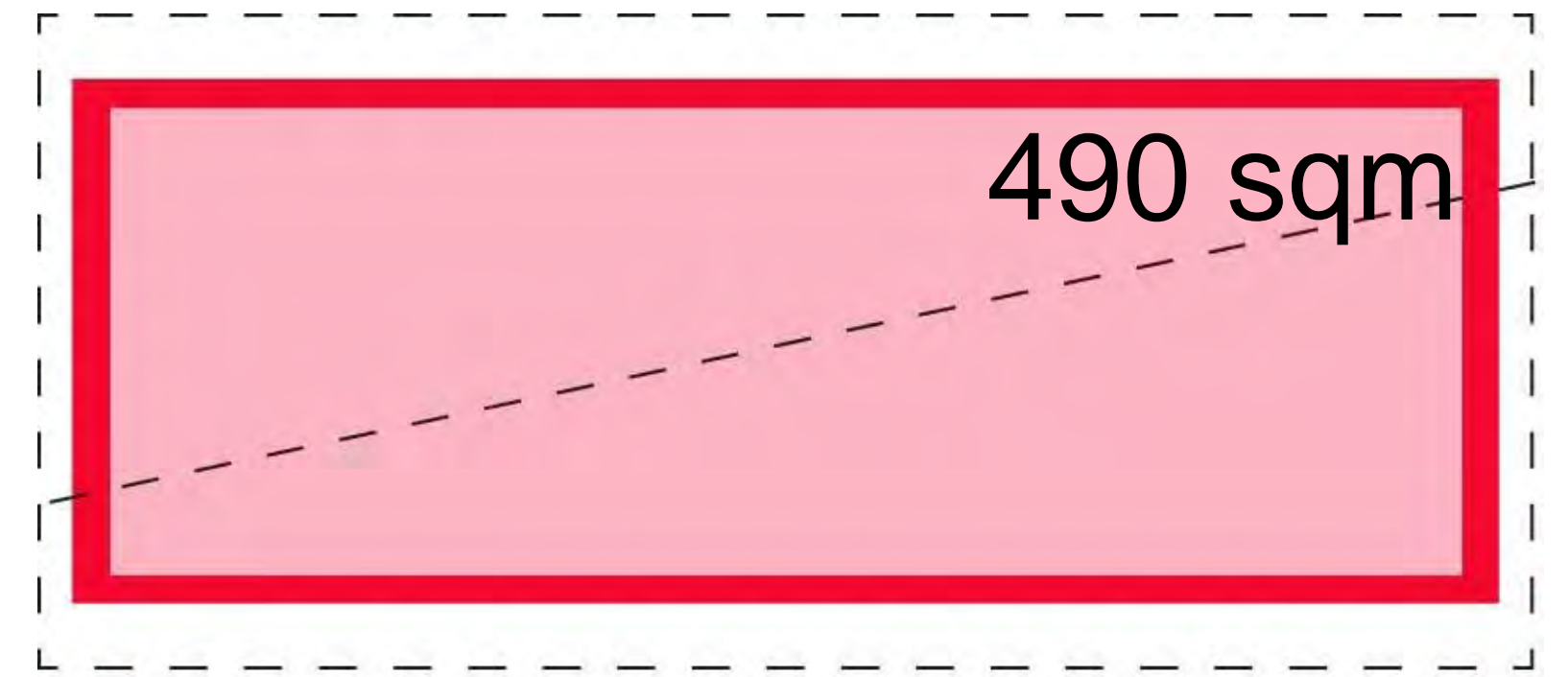
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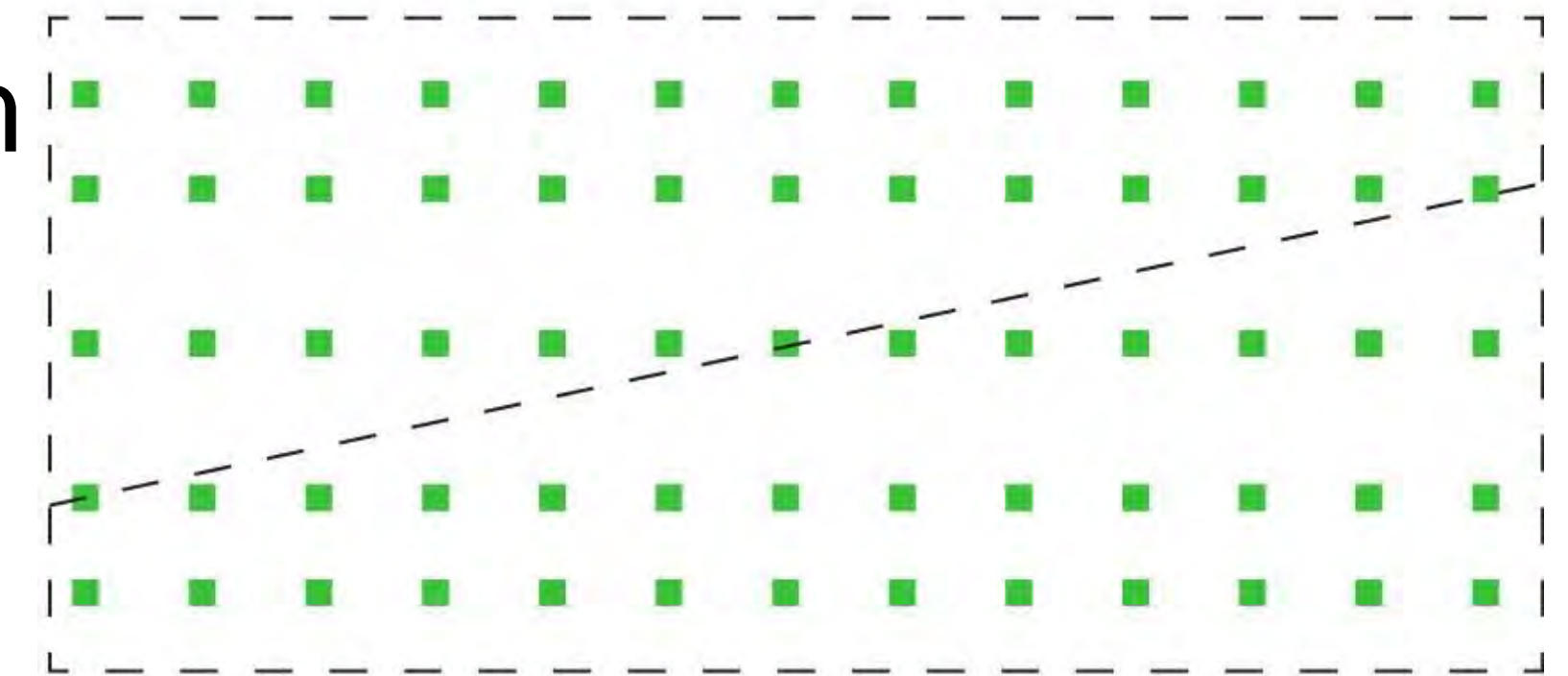
2. SUSTAINABLE CONSTRUCTION

- minimal footprint
- minimal usage of sand and cement
- biologically treated timber construction
- handmade
- bricks made from local soil

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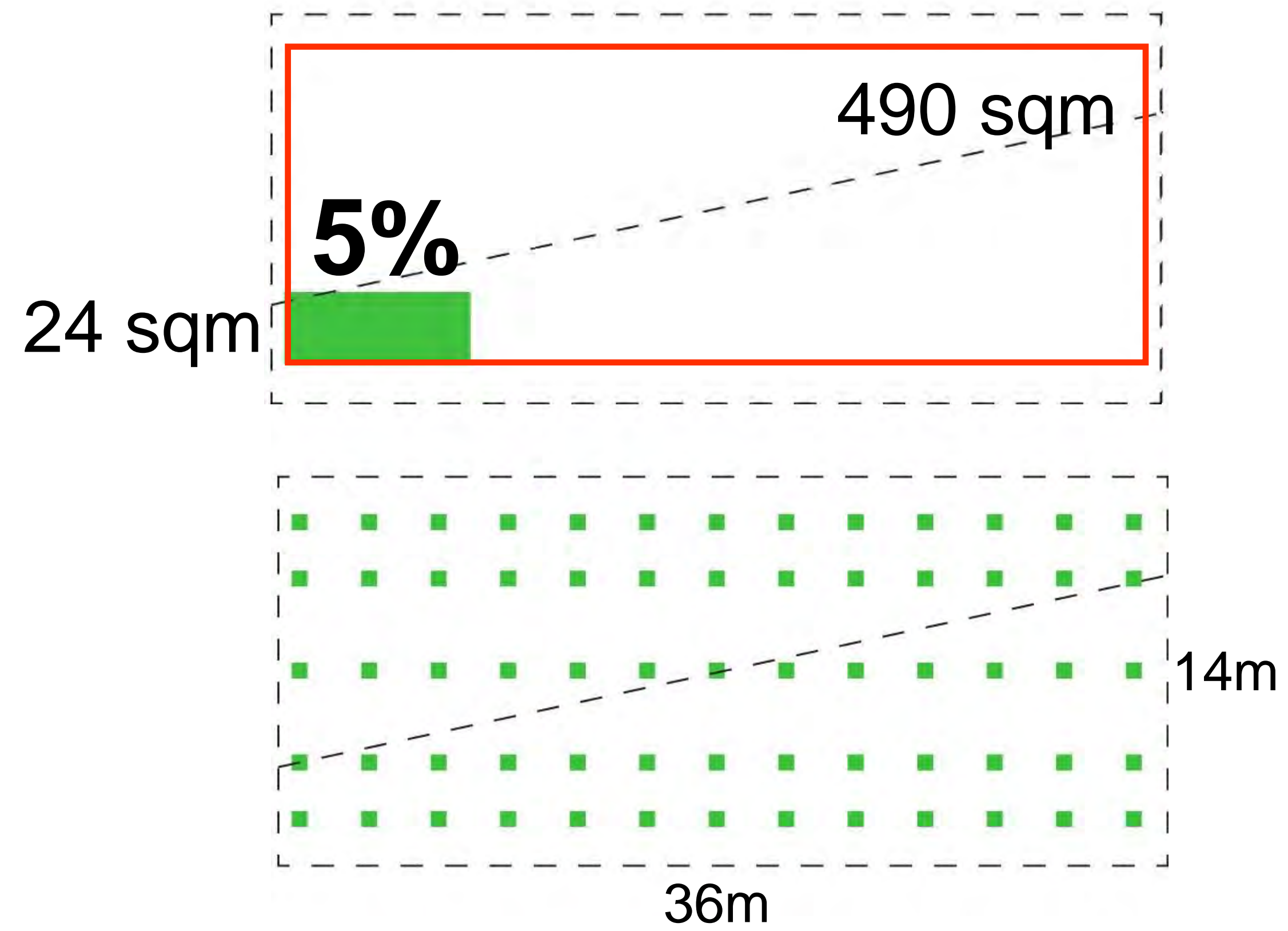


24 sqm



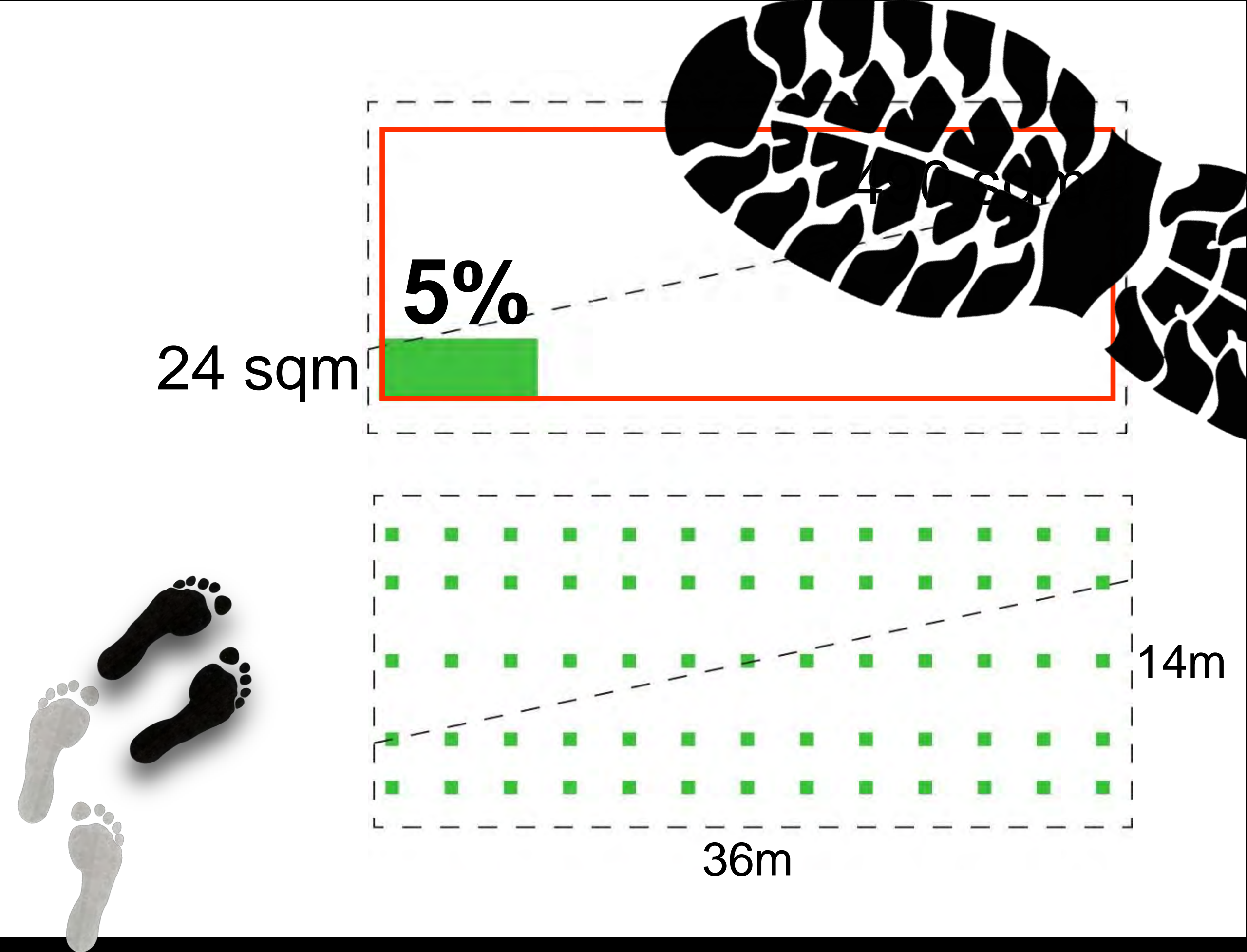
FOOTPRINT

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FOOTPRINT 65 point foundations

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FOOTPRINT 65 point foundations

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STRUCTURE wooden skeleton construction

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STRUCTURE wooden skeleton construction

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STRUCTURE wooden skeleton construction

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ROOFING fibre-cement sheets

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ROOFING fibre-cement sheets

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FACADES

maintainancefree, translucent polycarbonate

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SOIL PRESS LOCAL SOIL PRESSED TO BRICKS

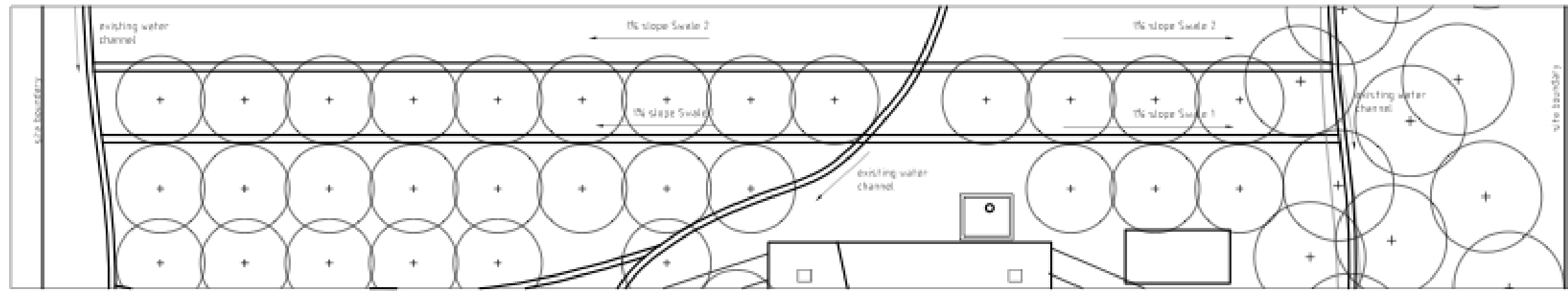
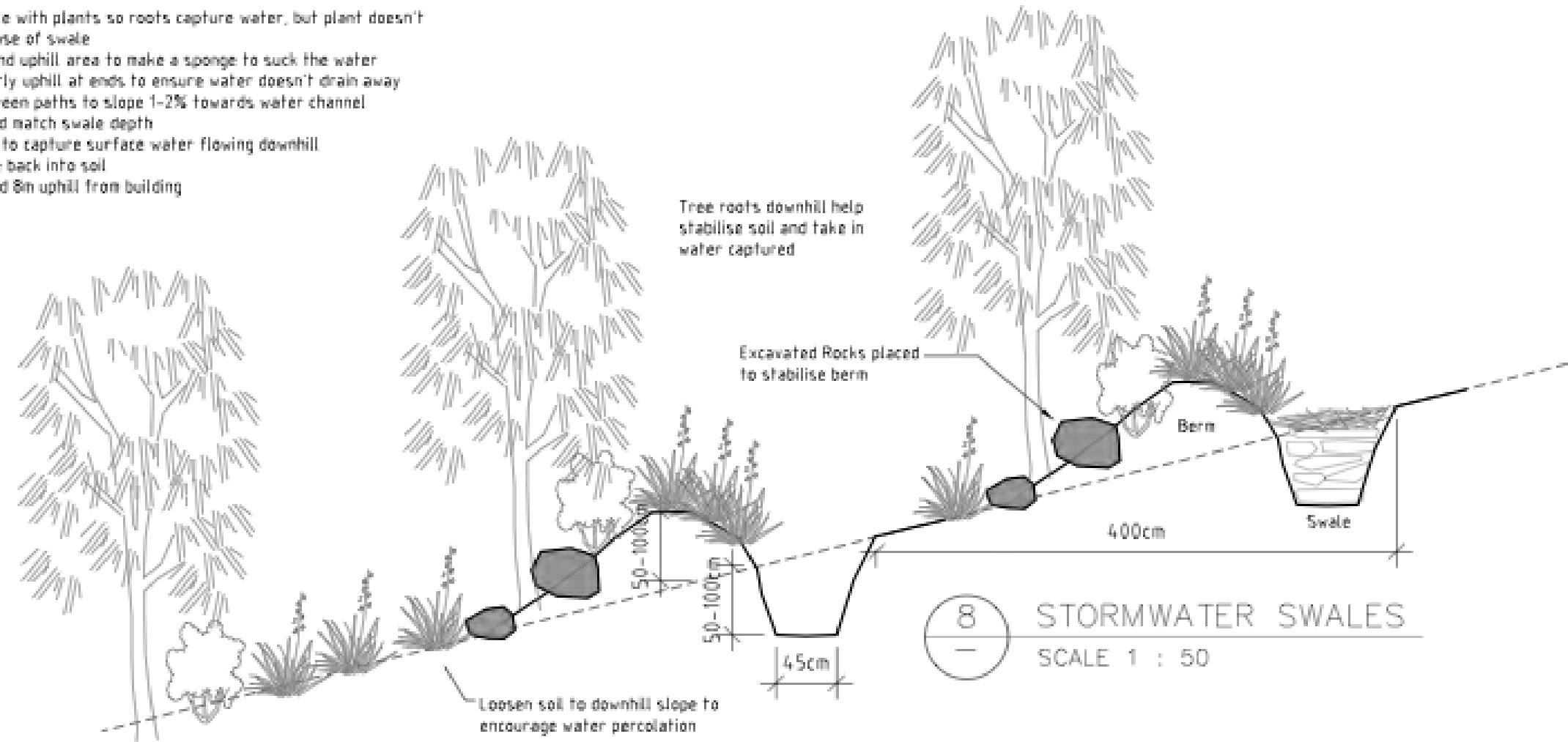
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SOIL PRESS LOCAL SOIL PRESSED TO BRICKS

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1. plant berm of swale with plants so roots capture water, but plant doesn't drown in water at base of swale
2. Mulch the swale and uphill area to make a sponge to suck the water
3. direct swale slightly uphill at ends to ensure water doesn't drain away
4. allow swales between paths to slope 1-2% towards water channel
5. Berm height should match swale depth
6. Swale is designed to capture surface water flowing downhill and help it percolate back into soil
7. First swale located 8m uphill from building



BIODIVERSITY CONSERVATION & RENEWABLE ENERGY
KL Plan Learning Centre 09 May12.dwg



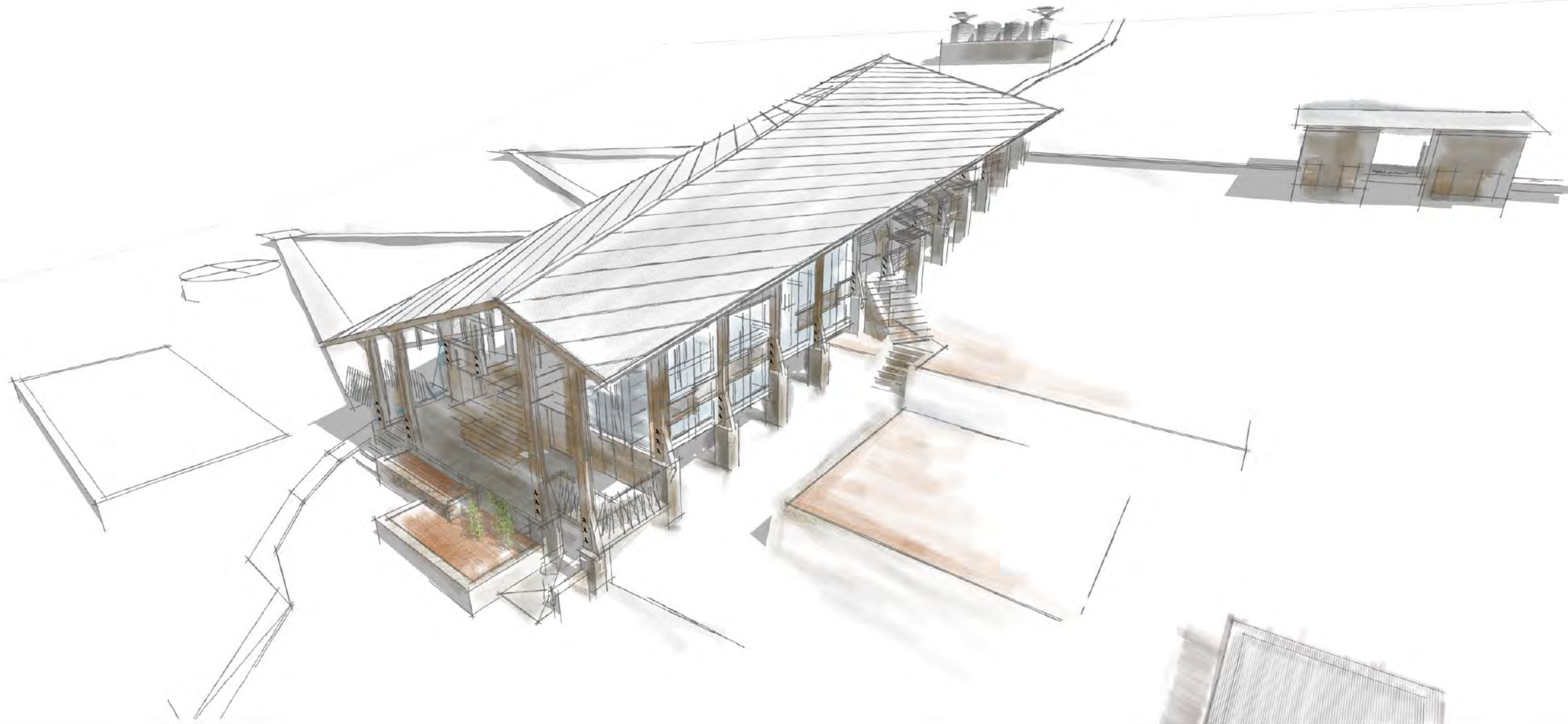
SWALES

PREVENTS ERROSION, ABSORBES WATE

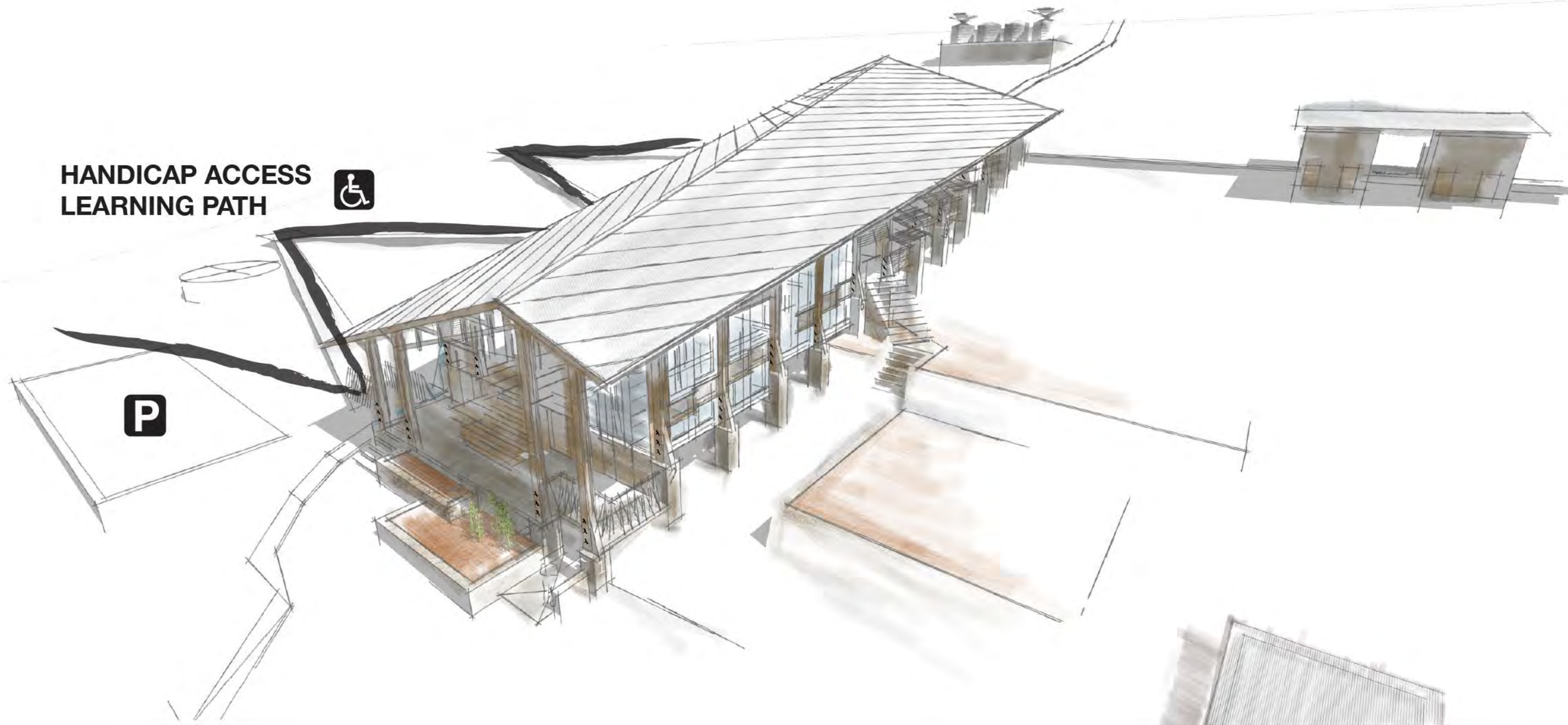
3. LEARNINGS

- using all natural resources (wind, water, sun)
- no technical aircondition
- sustainable building techniques
- compost management (toilets, garden)

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**HANDICAP ACCESS
LEARNING PATH**



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HANDICAP ACCESS
LEARNING PATH



HANDICAP ACCESS



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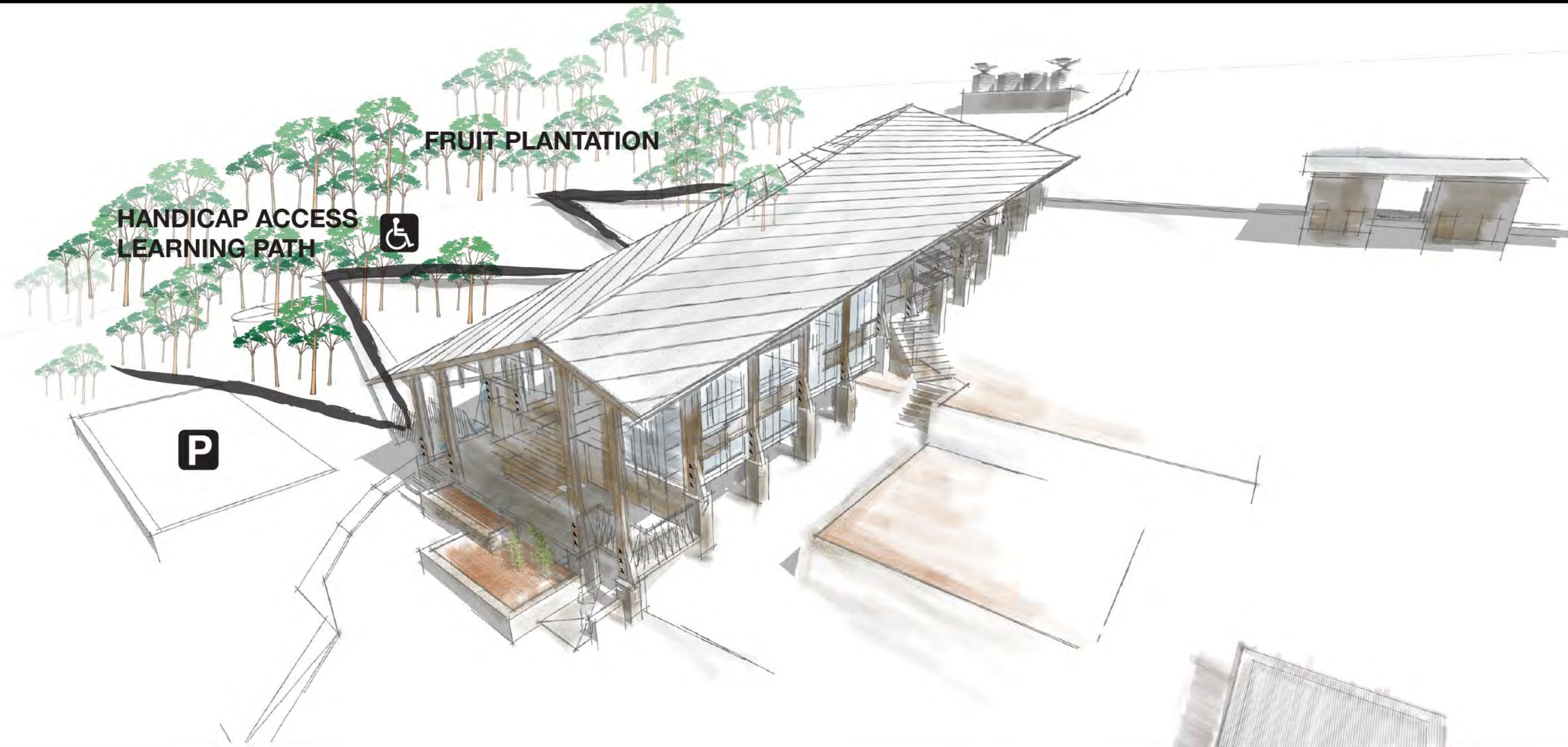


**HANDICAP ACCESS
LEARNING PATH**



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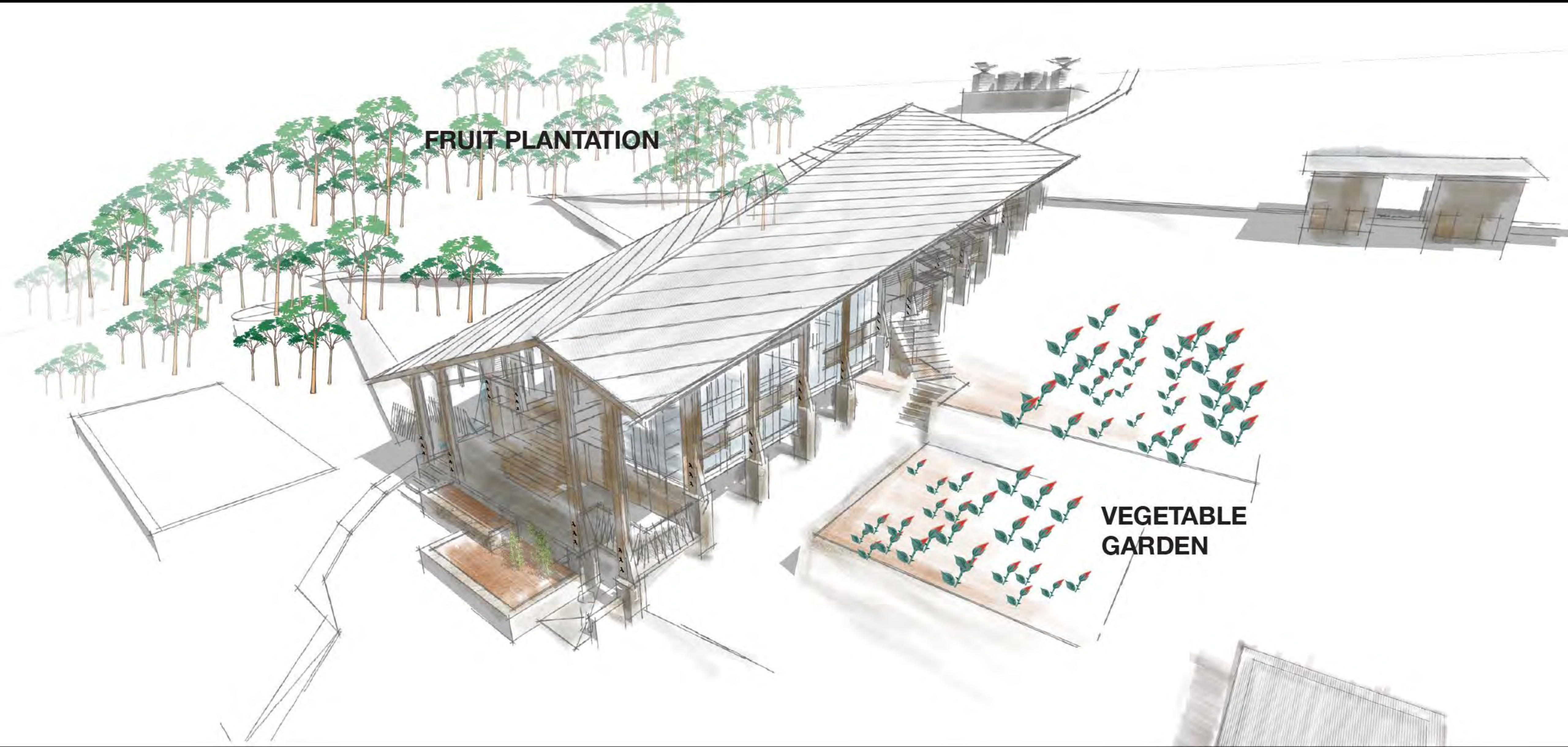
FRUIT PLANTATION

**HANDICAP ACCESS
LEARNING PATH**



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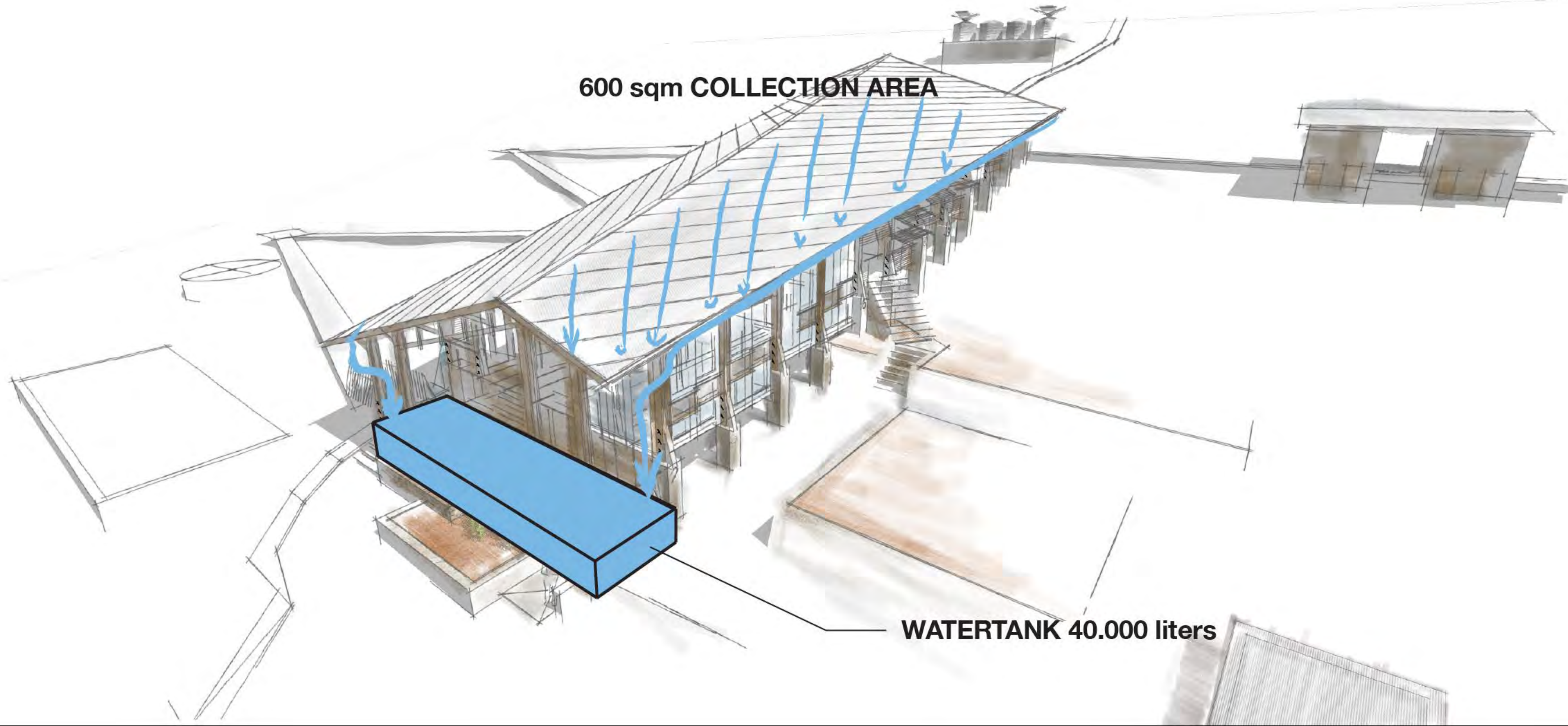
FRUIT PLANTATION

VEGETABLE GARDEN

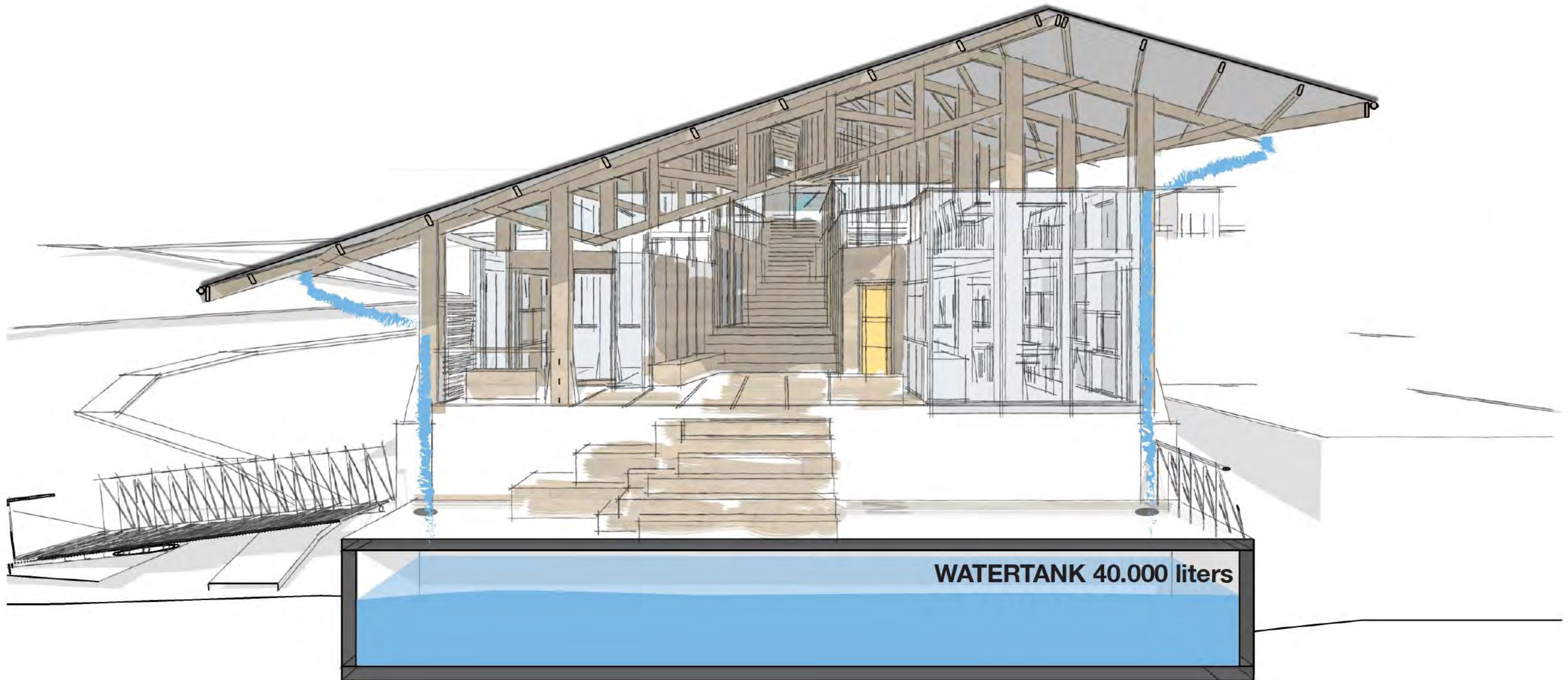
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600 sqm COLLECTION AREA

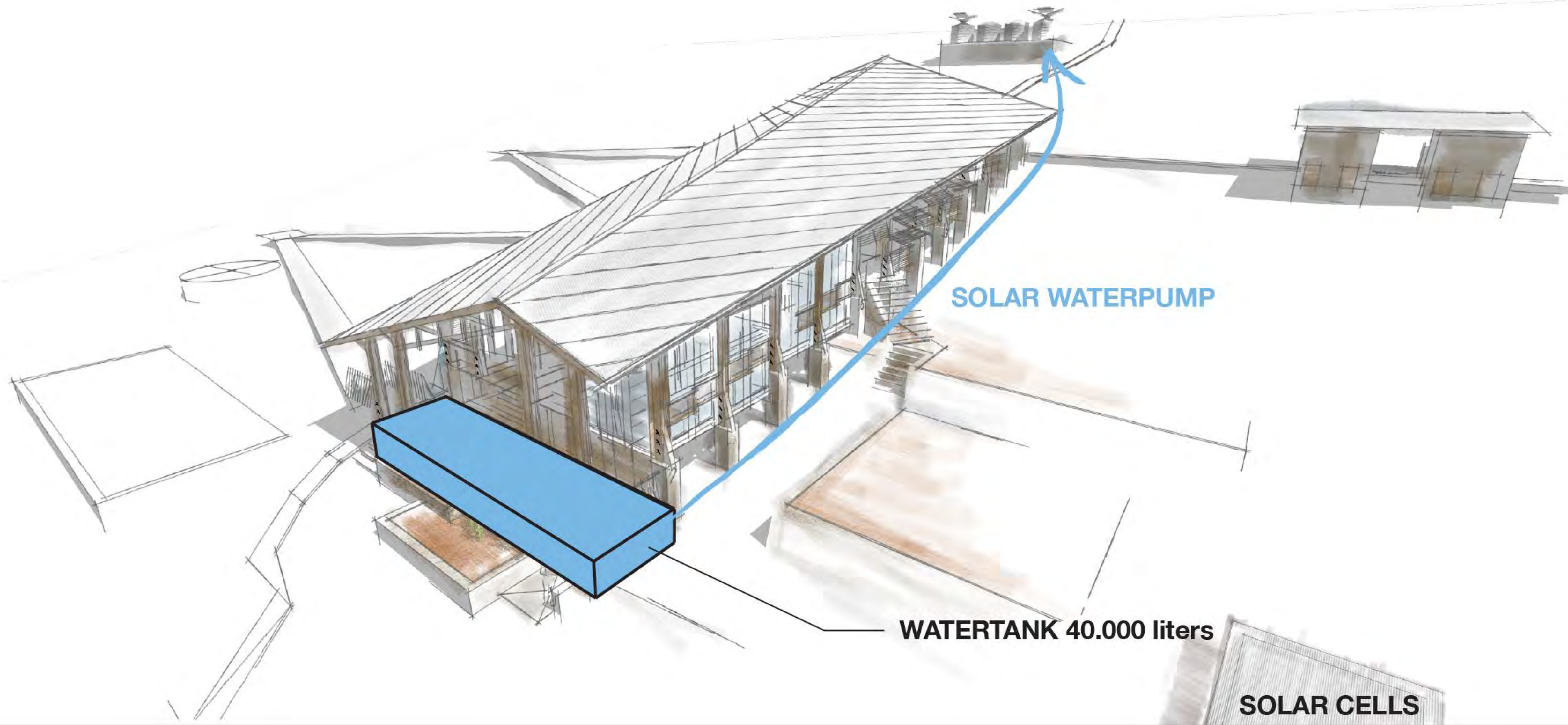
WATERTANK 40.000 liters



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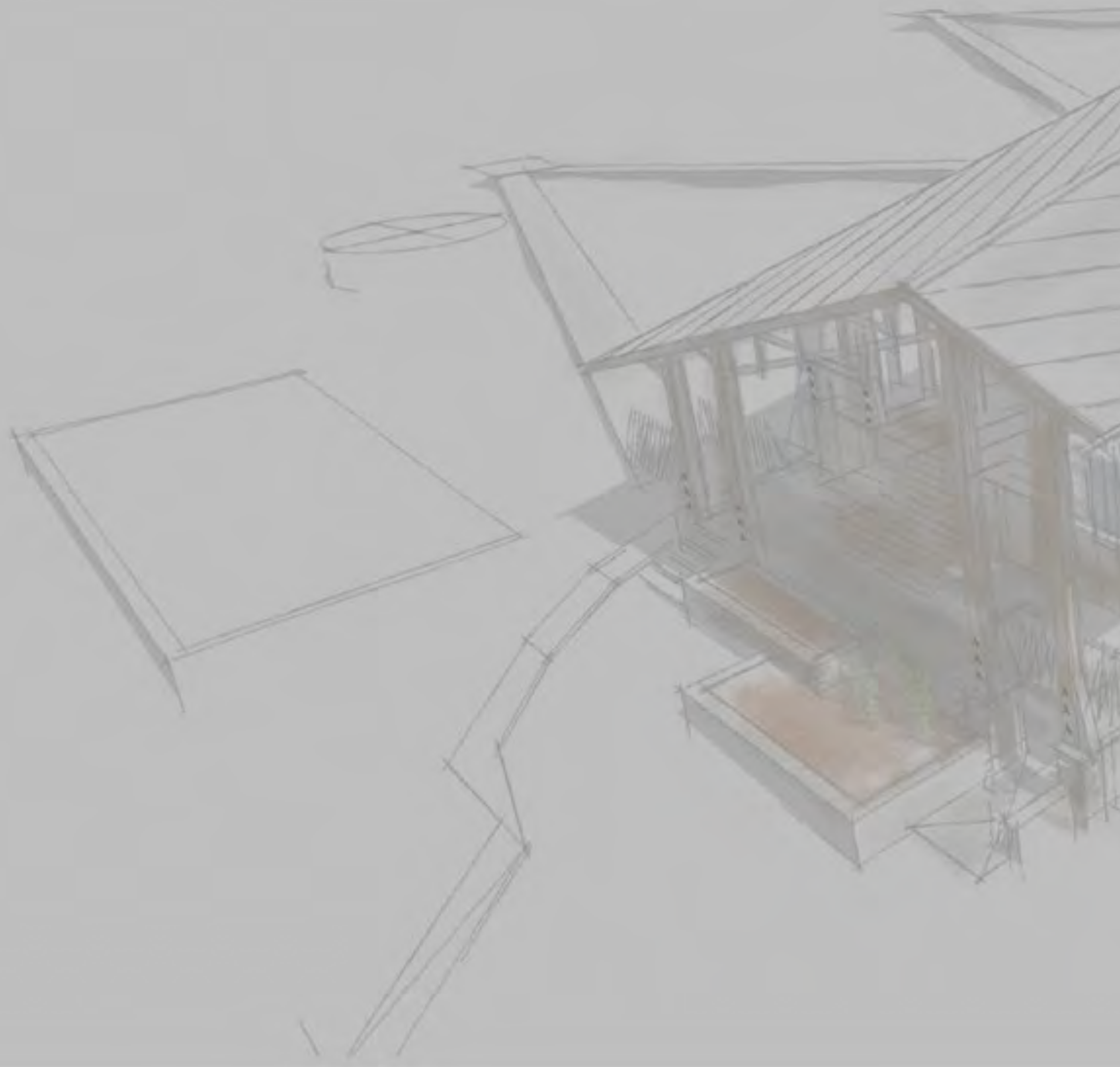
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WATERTANK 4x 5.000 liter
natural pressure



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WATERTANK 4x 5.000 liter
natural pressure

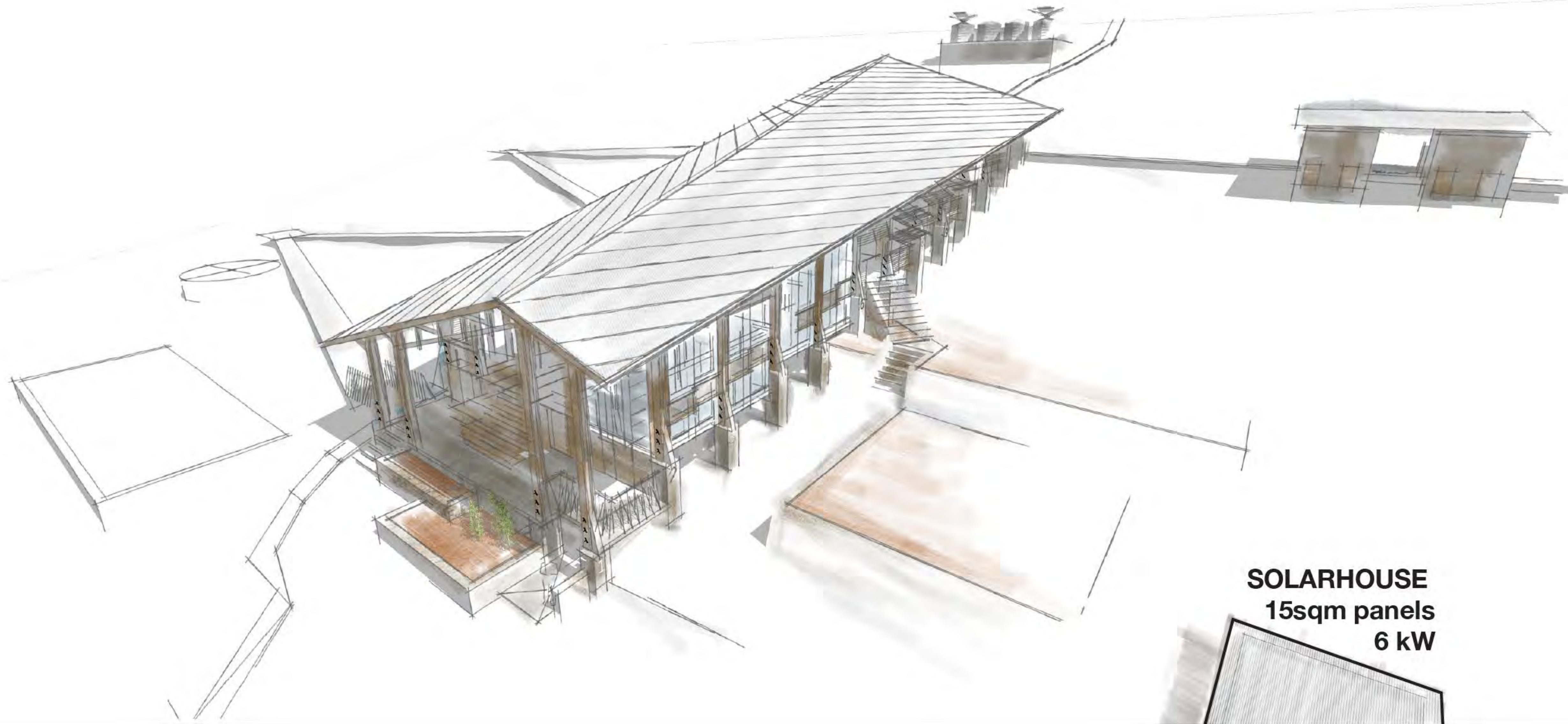


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**FREE DRINKING-
WATER TAP**

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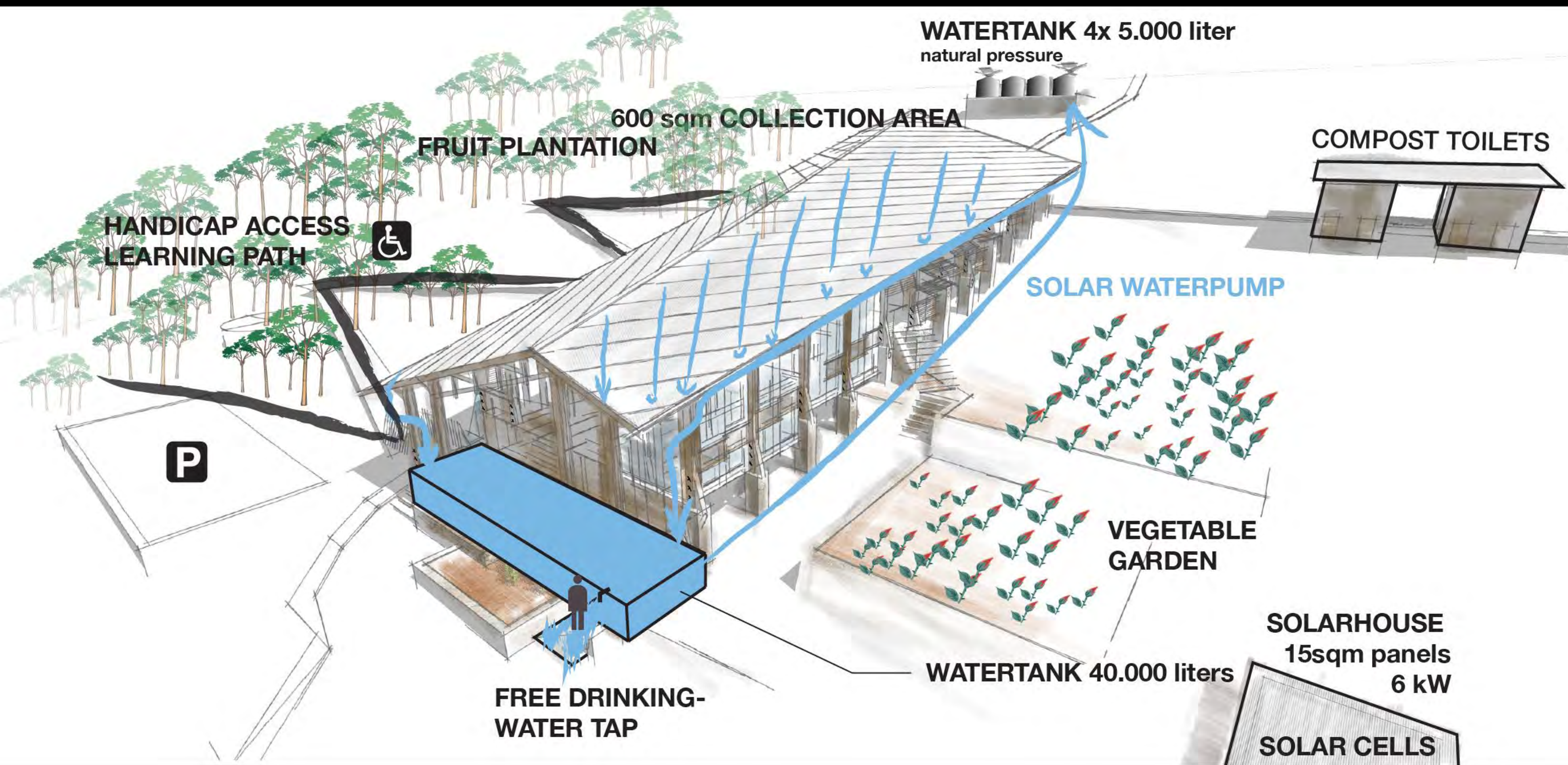


SOLARHOUSE
15sqm panels
6 kW

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**DOUBLE ROOF ENSURES
SUN SHADE FOR ALL AREAS**

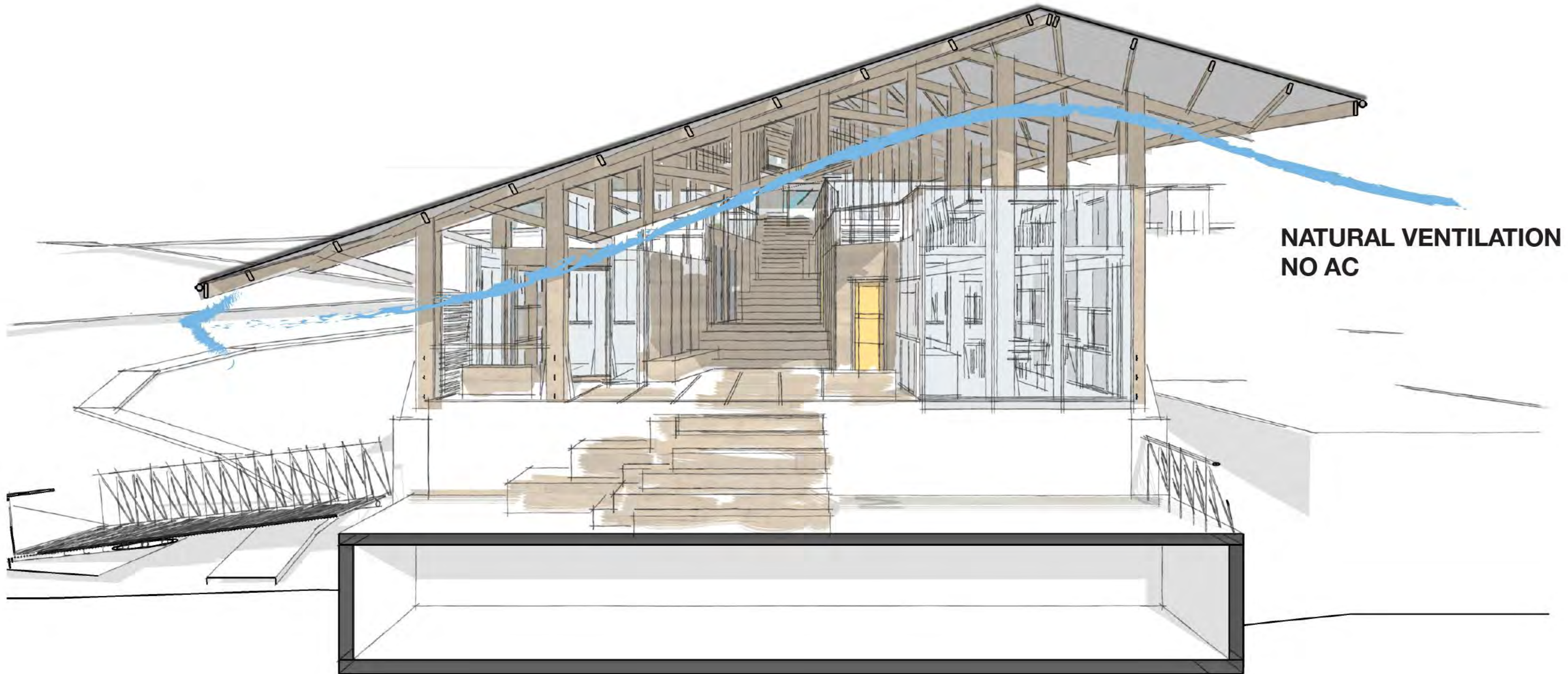


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**NATURAL VENTILATION
NO AIR CONDITION**



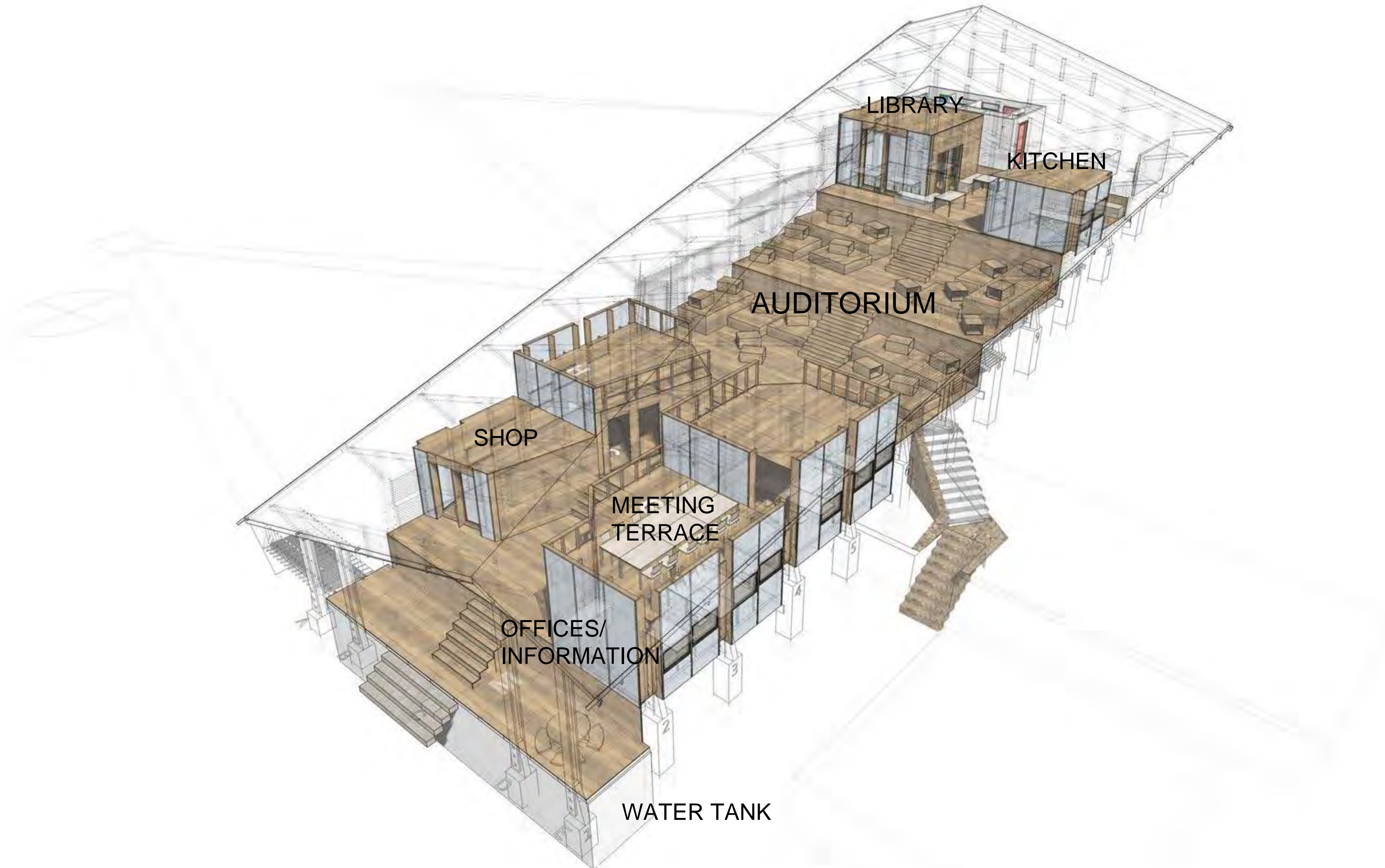
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4. POSSIBILITIES

- inviting public space
- exhibiting, teaching, learning, showcasing best practice

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SHOP

WALKWAY

RECEPTION/
INFORMATION

MEETINGGALLERY
VIEW

WEST ELEVATION

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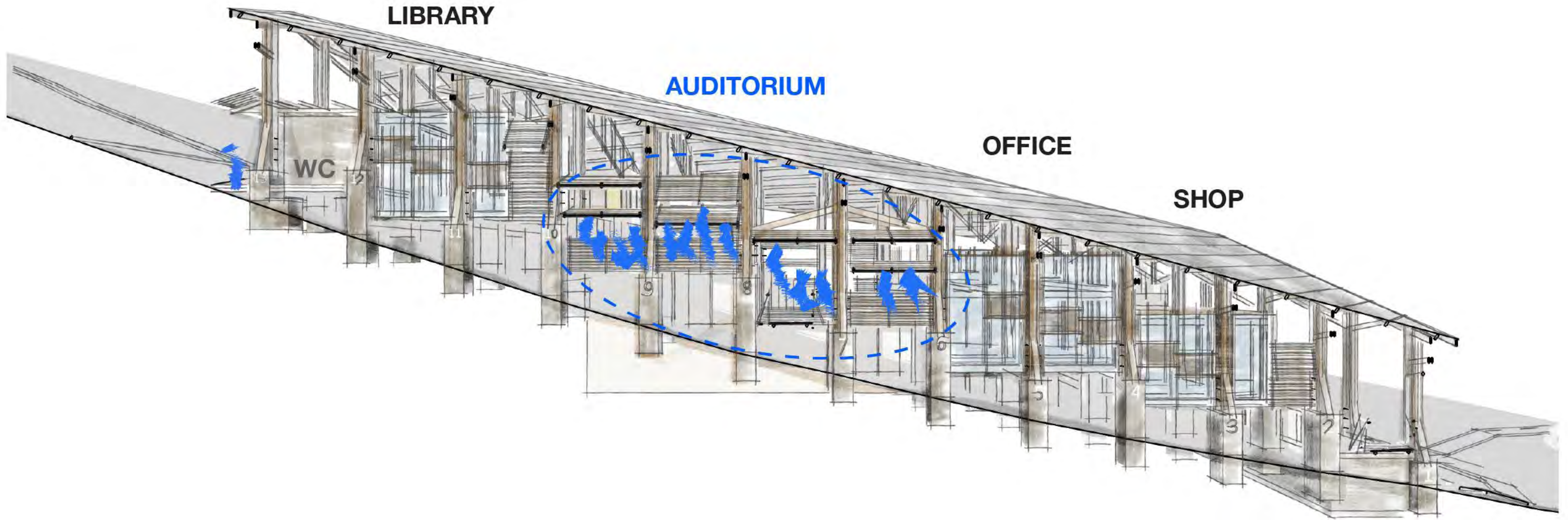
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NORTH ELEVATION

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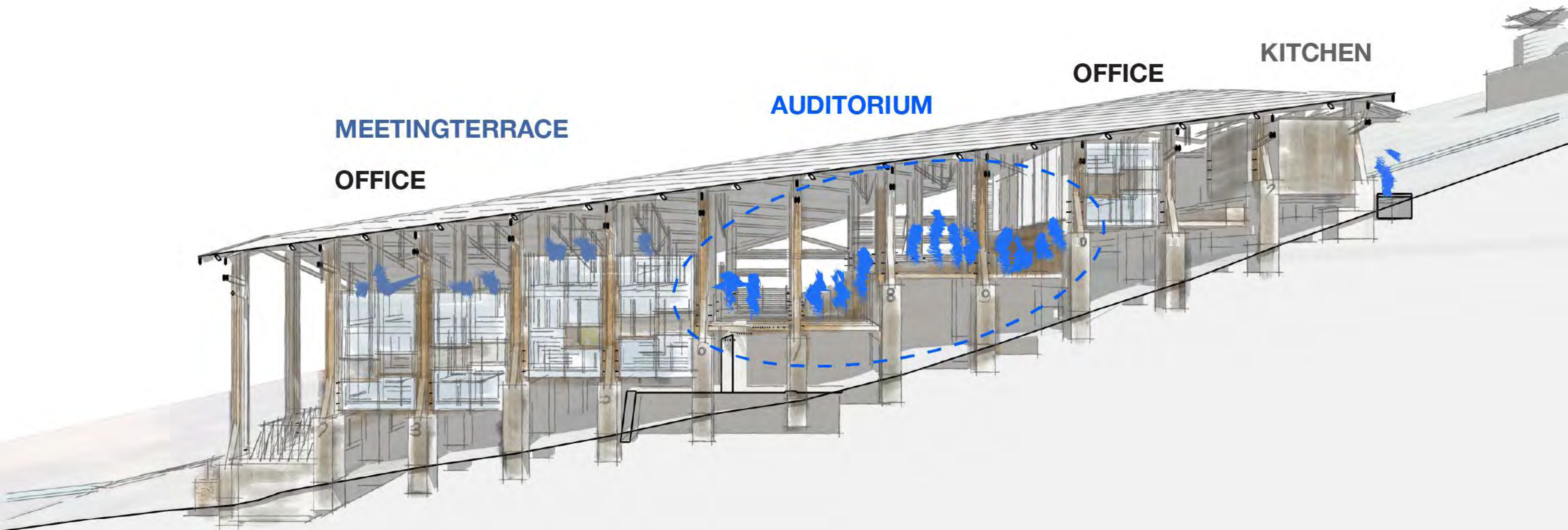
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SERIAL PHONE



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MEETING TERRACE

AUDITORIUM

OFFICE

KITCHEN

OFFICE

SOUTH ELEVATION

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