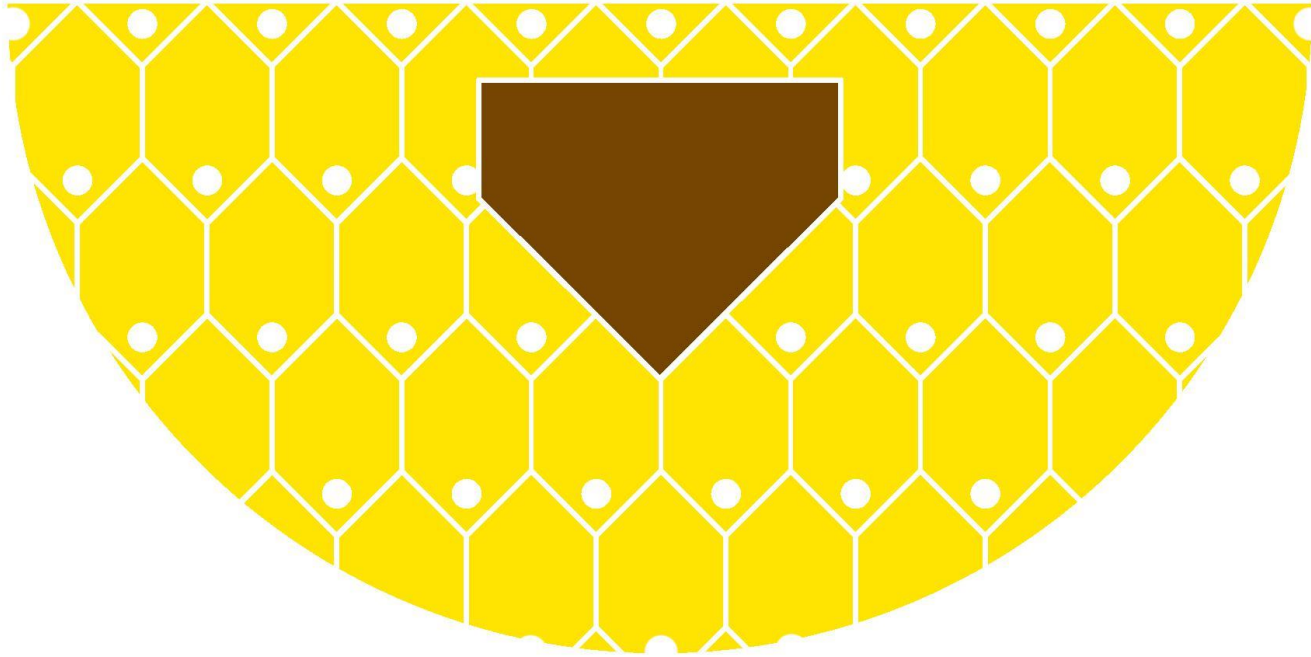


Äerdschëff



Quoi?

Principes de l'Earthship



- Natural and recycled materials
- Solar and wind electricity
- Thermal/solar heating and cooling
- Water harvesting
- Contained sewage treatment
- Food production





From www.earthships.co.hk



19/01/2017

Earthship Academy, Taos New Mexico September 2016



Pourquoi?

Vision

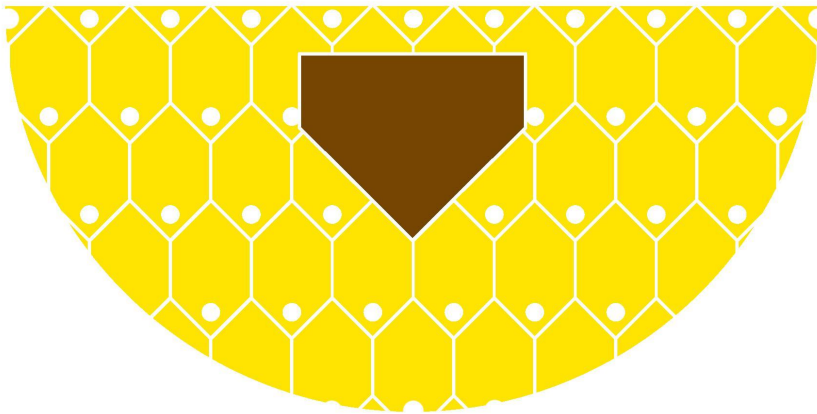
We seek to design and build a comfortable and healthy self-sufficient space for human learning and flourishing in a changed climate.

Mission

Our mission is to steer and lead a community-based process aimed at designing, building and documenting an earthship-inspired hub in Redange/Attert. This building will serve the community as a hub to showcase, practice and live low-impact, regenerative ways of living.

Earthship 3.0

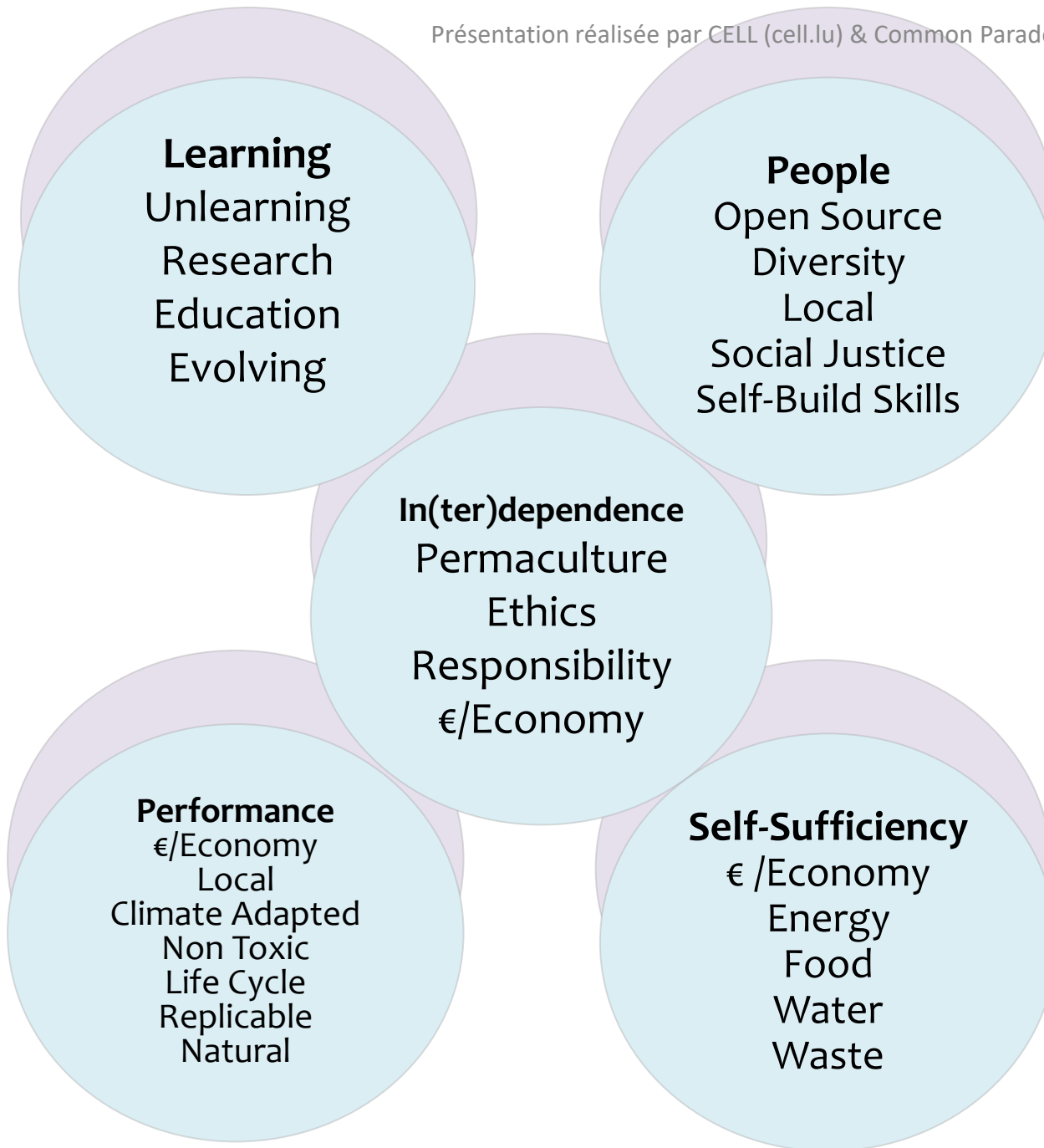
Äerdschëff



- In(ter)dependence
- Performance of the building
- Self-sufficiency
- People
- Learning

social

ecological



Comment?

Phase de conception

- Matériaux locaux, naturels, recyclés
- Adaptation du modèle américain aux conditions climatiques, législatives et standards construction écologique européens
- Equipe 3 personnes CELL, groupe pilotage, entreprises, école
- APS/APD
- Financement par LEADER, MDDI/ABP, Oeuvre, CELL

Phase de construction

- Matériaux de provenance locale et services conseil fournis par entreprises régionales intéressées à la construction écologique/low-impact/économie circulaire
- Travaux faits par (1) bénévoles, (2) entreprises&bénévoles, (3) entreprises
- Chantier participatif bénévoles/workshops divers (2017, à déterminer en fonction des autorisations)

Phase de décollage

- Espace citoyen multifonctionnel: formations, café, évènements culturels et sociaux, hub régional (VDA, ODS, ...) de la Transition en espace rural, hébergement et tourisme earthships
- Coopération: institutions de la formation professionnelle, entreprises locales et experts internationaux pour lieu de formation vivant (ALR, OAI, INFPC, IFSB, neobuild, LUCA...)

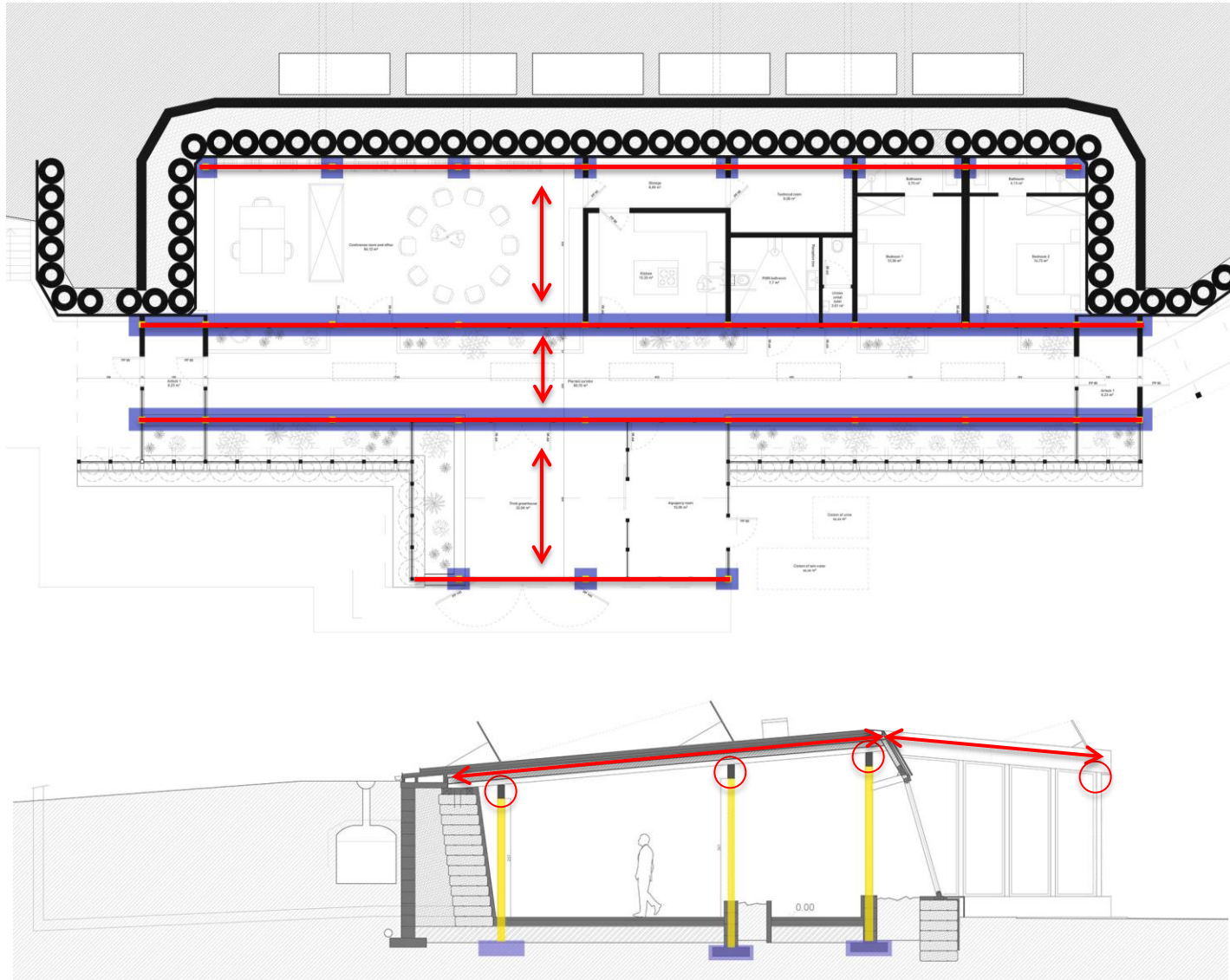
Aërdscheff

Implantation

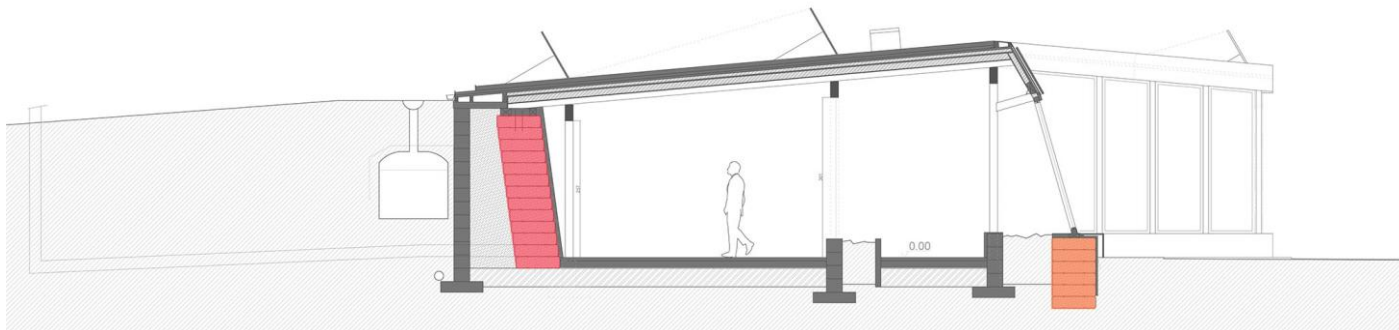
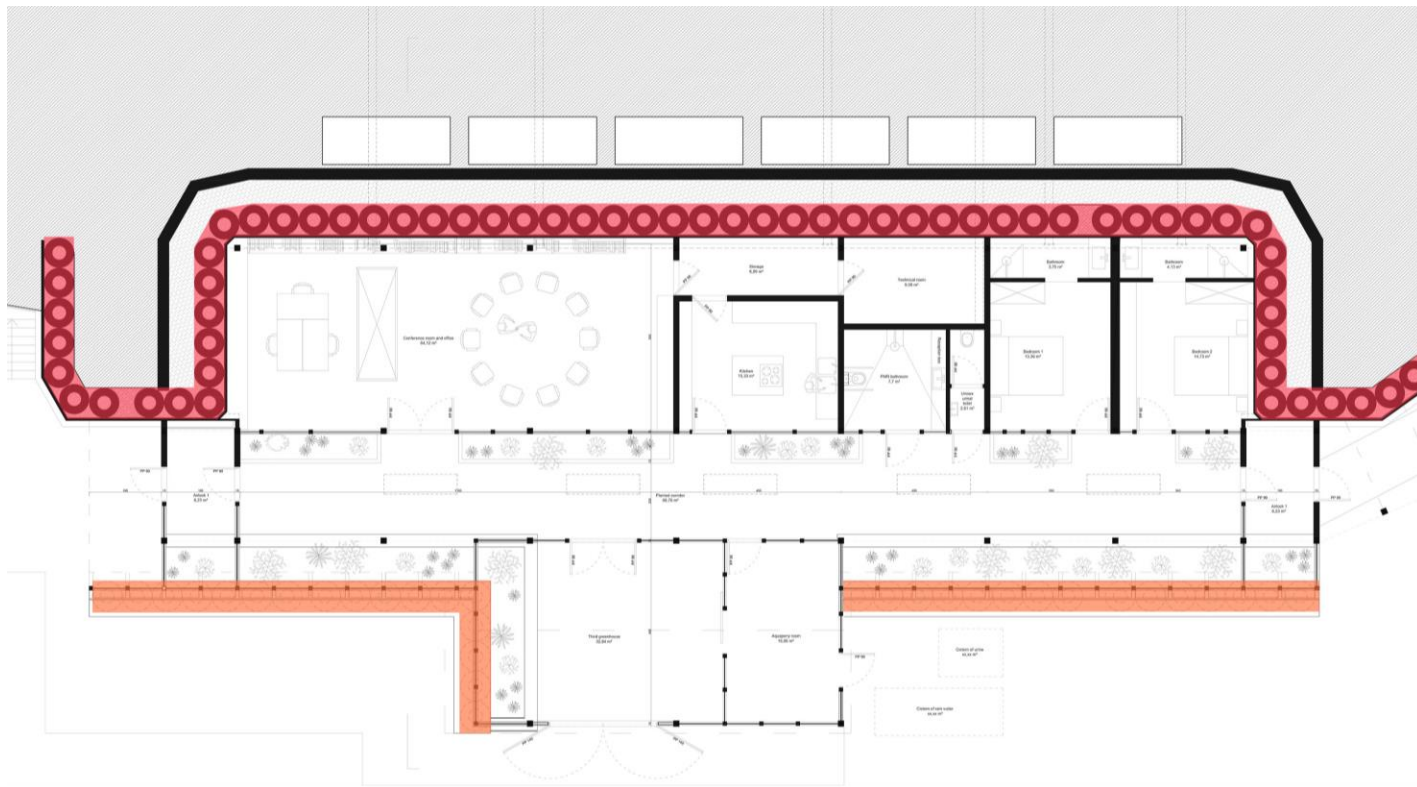
- Situation sur le site du Atert Lycée Redange
- S'intégrer dans l'environnement existant (architecture, topographie, accès, végétation, etc.)
- Orientation Sud
- Limiter les surfaces imperméables

Structure du bâtiment

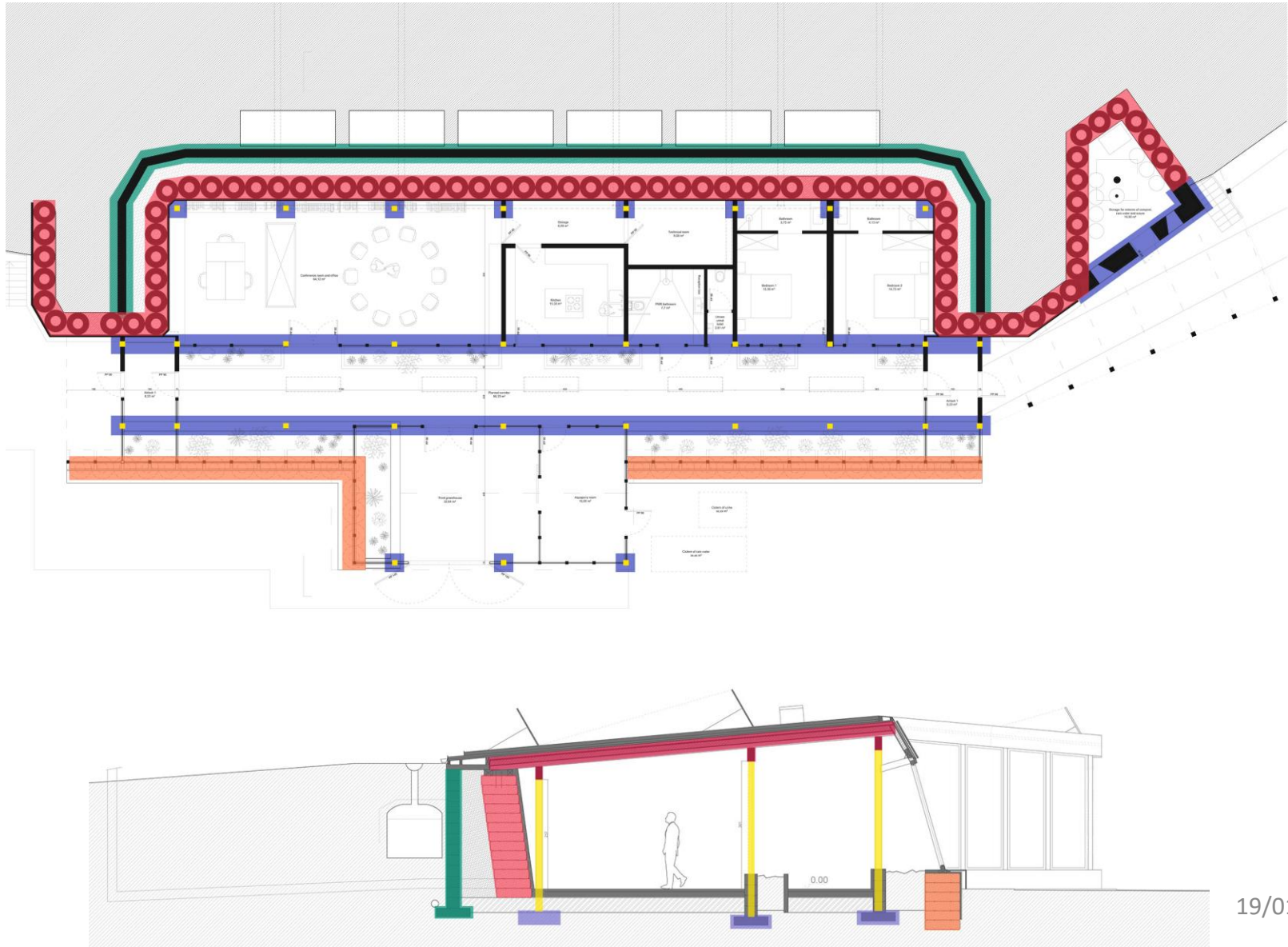
Structure poteau-poutre bois



Pneus



Vue d'ensemble

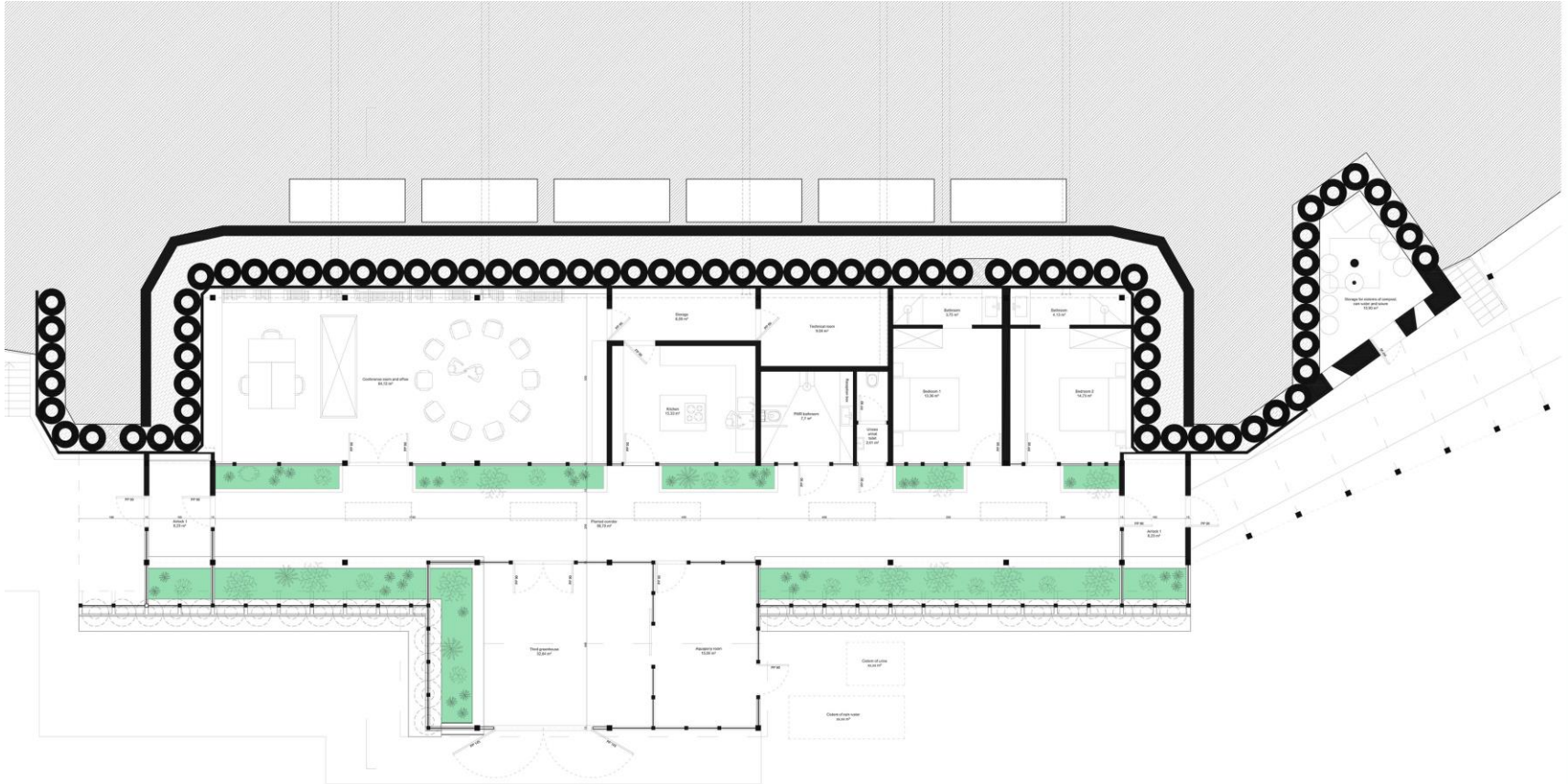


Design des espaces intérieurs

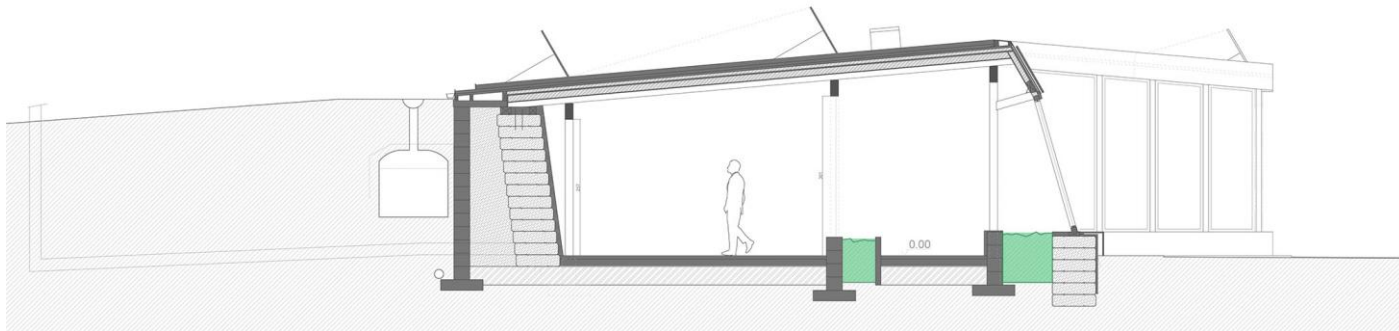
Air locks



Couloir et plantations



Couloir et plantations



Salle de conférence & bureau



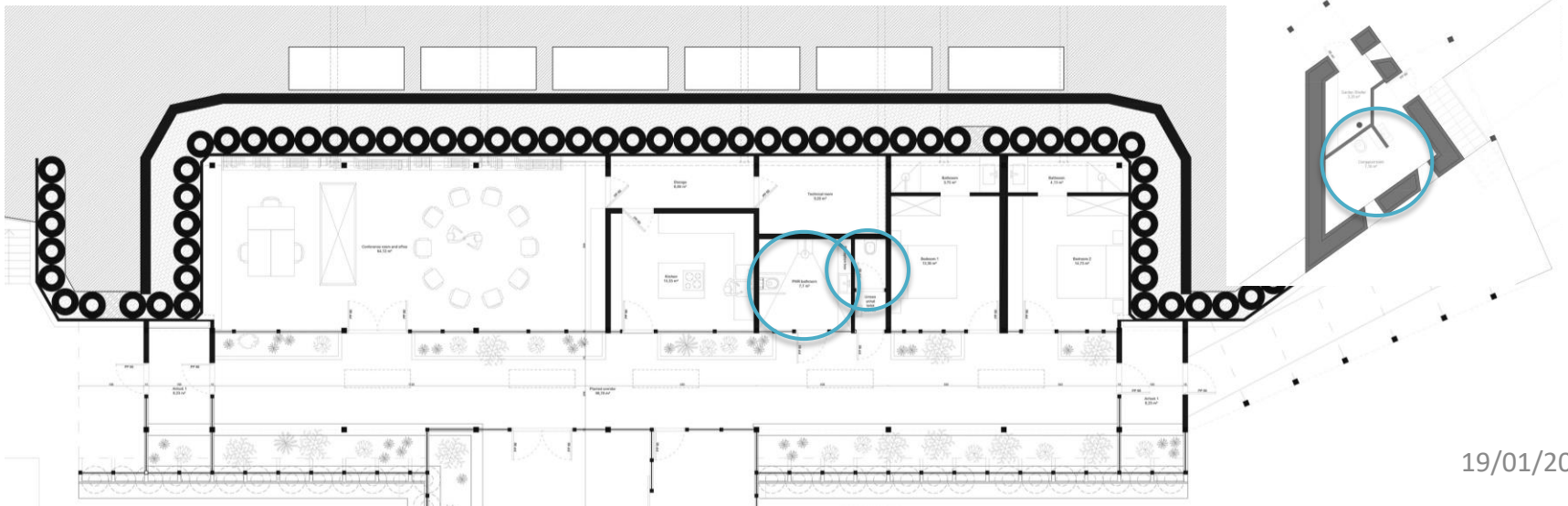
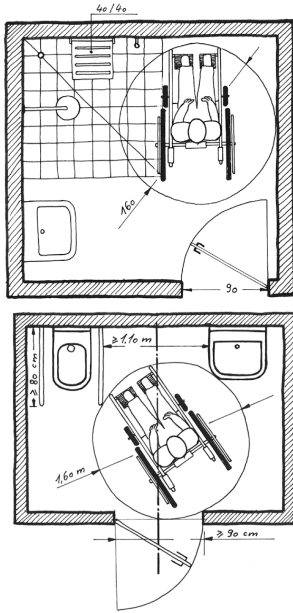
Cuisine



Chambres & douches



Toilettes

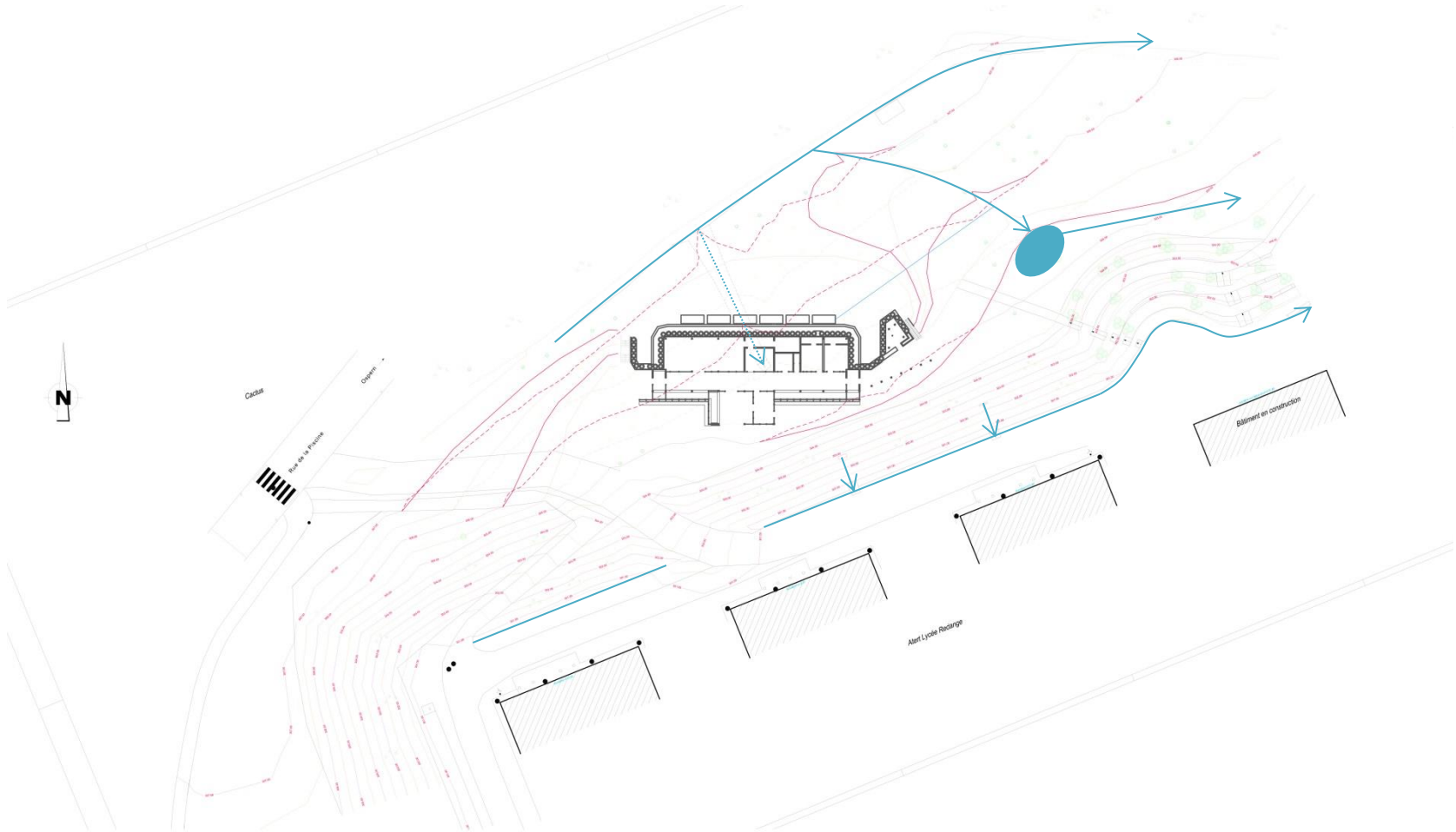


3^{ème} serre

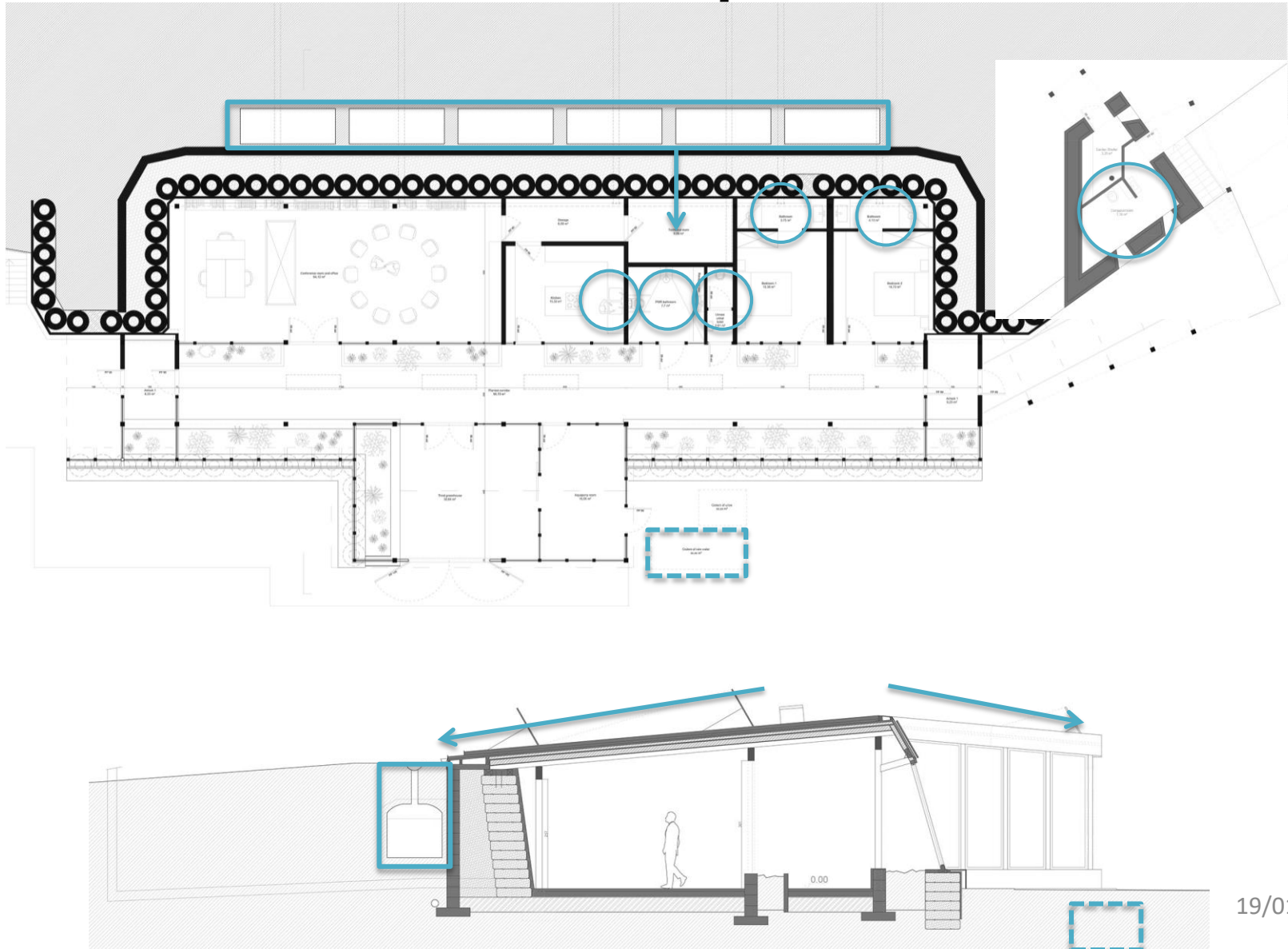


Design des systèmes techniques

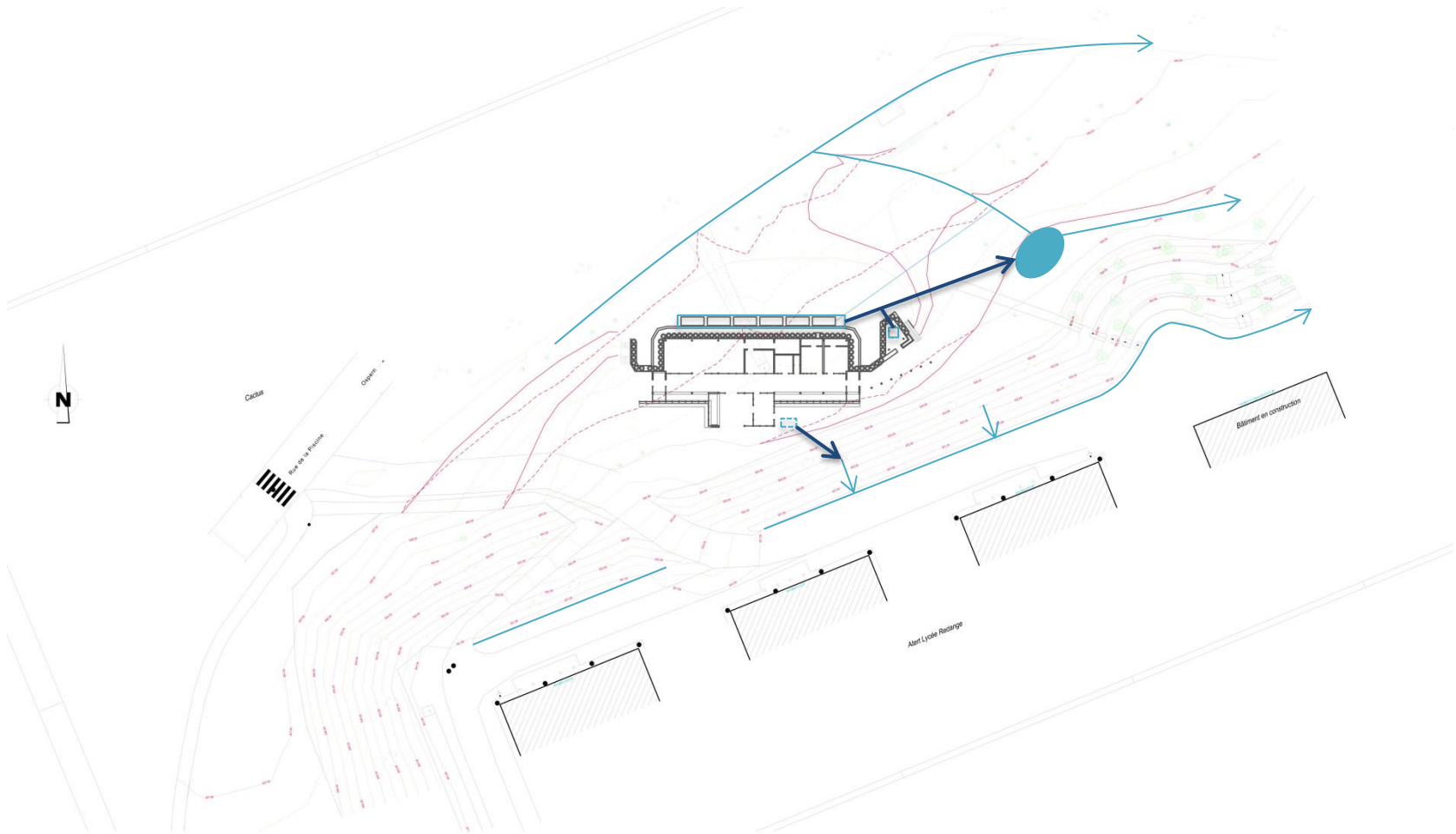
Eaux de ruissellement

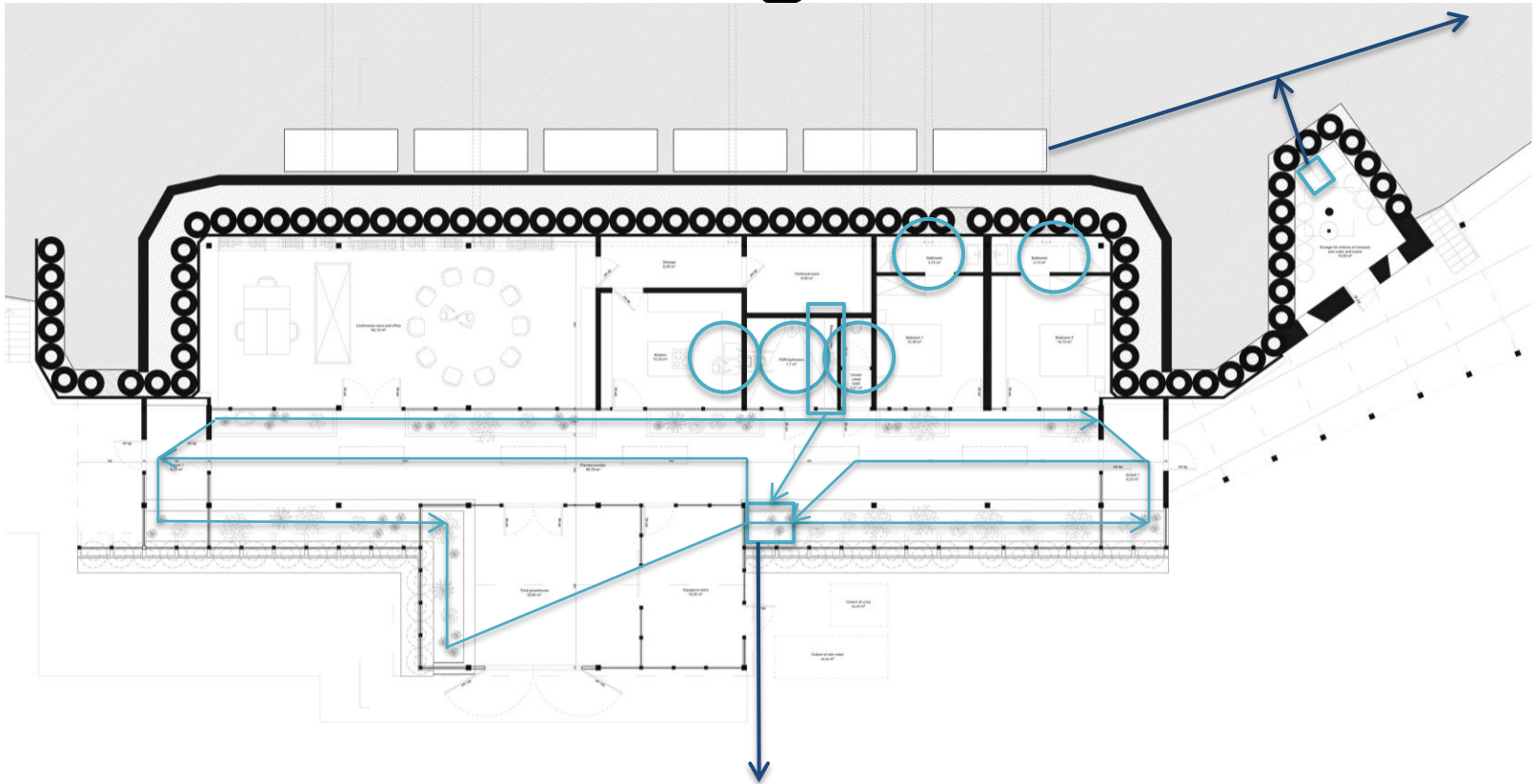


Eaux de pluie

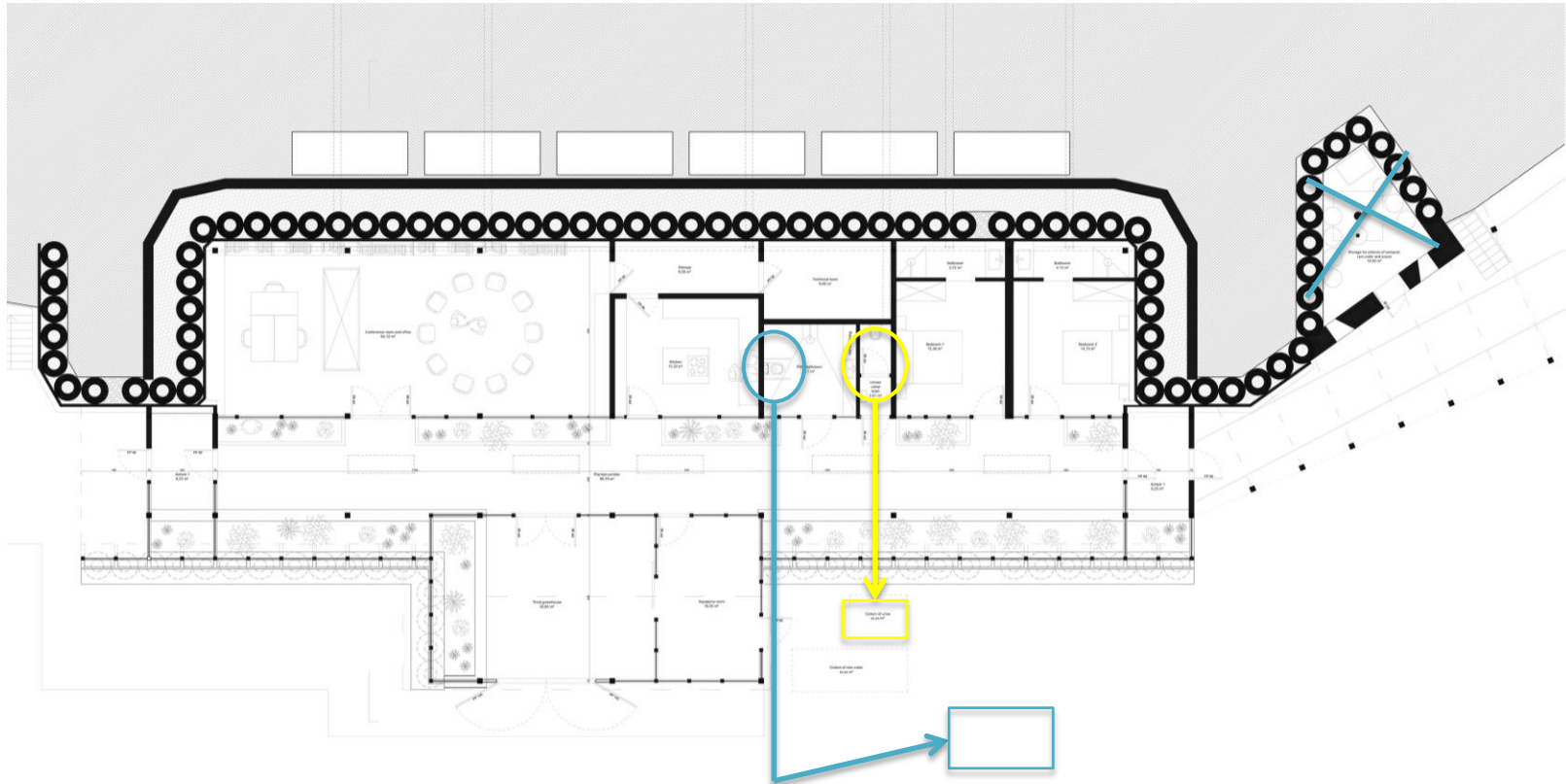


Eaux de pluie

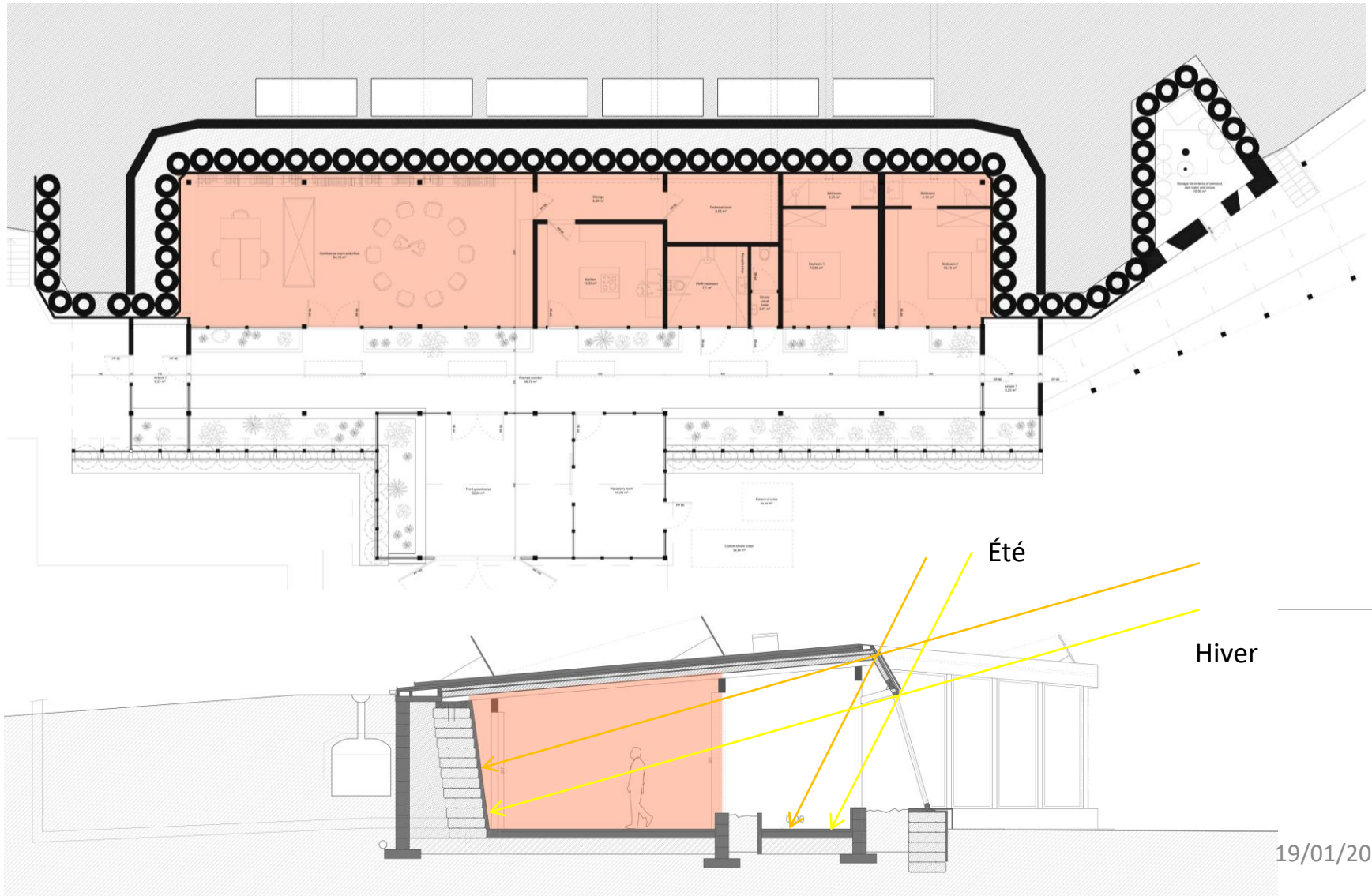




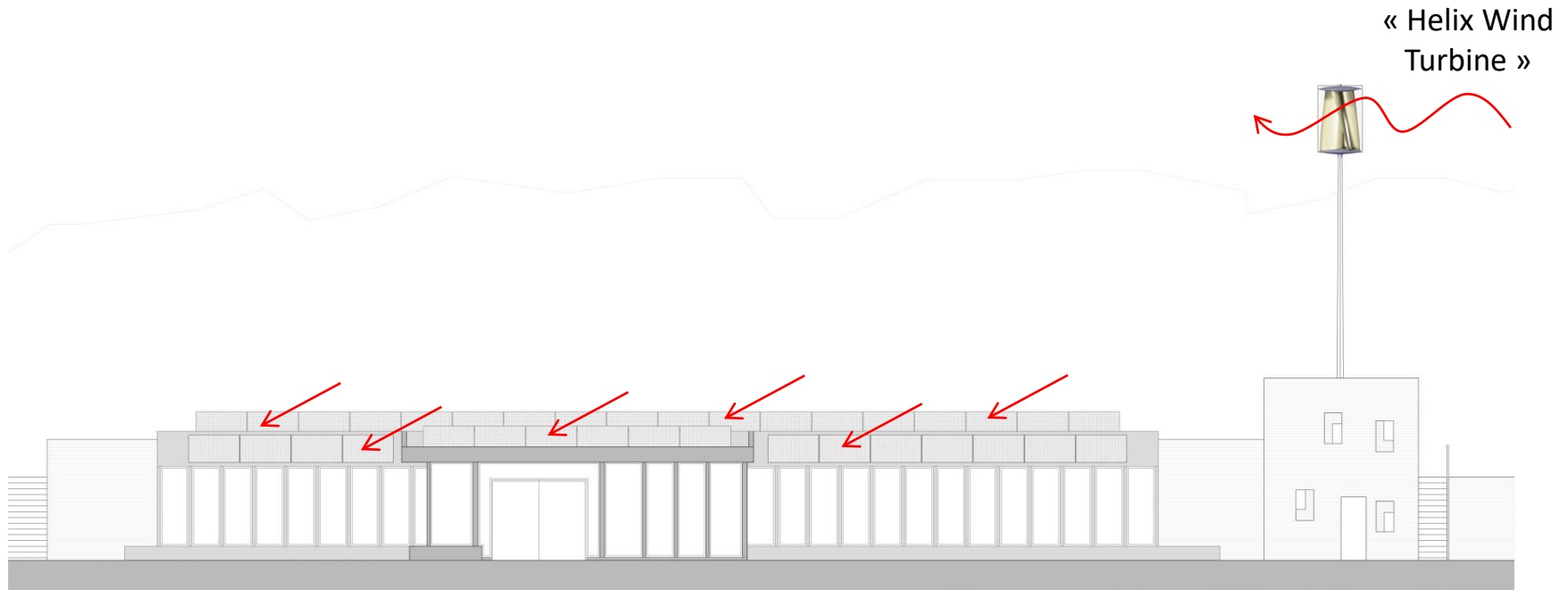
Eaux noires



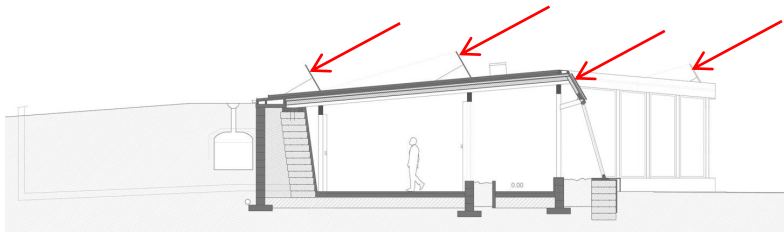
Zone isolée/naturellement chauffée



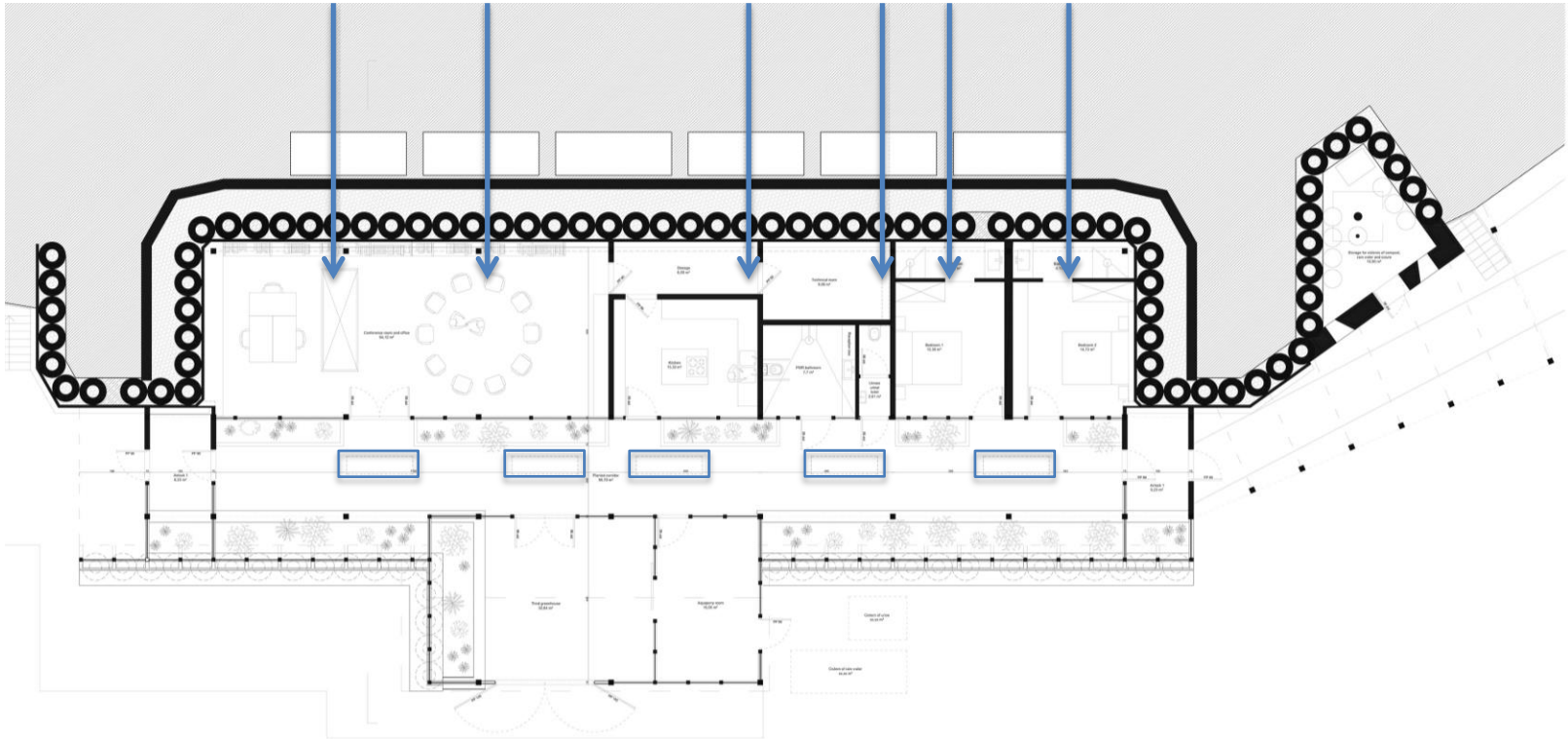
Énergie – solaire & éolien



Panneaux photovoltaïques en toiture

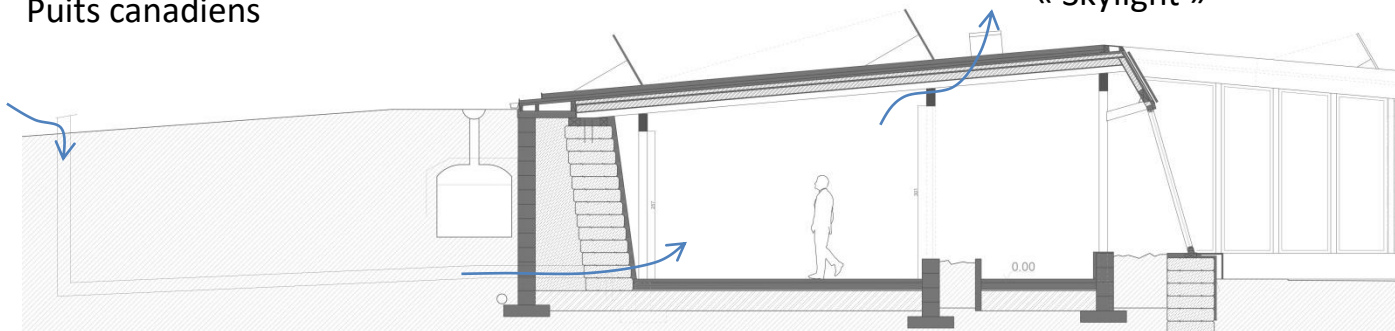


Ventilation



Puits canadiens

« Skylight »



Vos question?