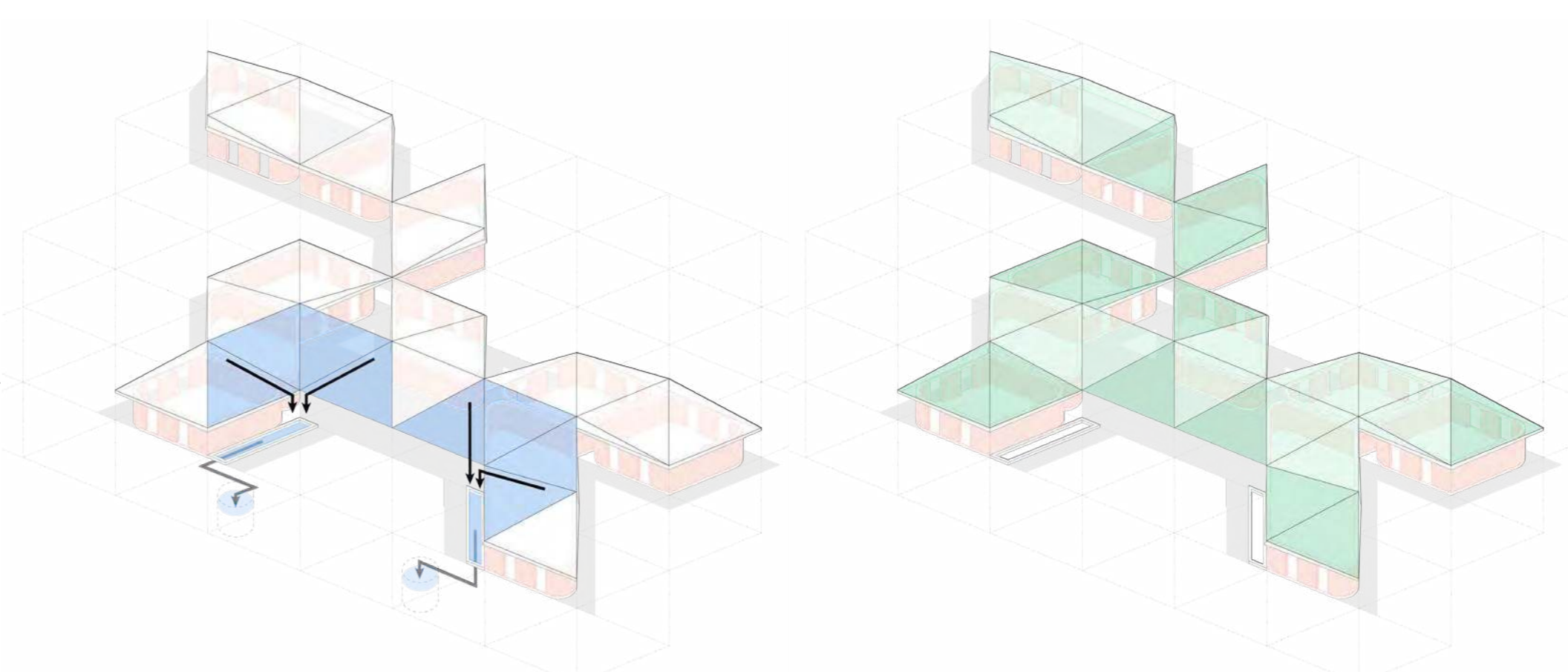


In contexts of underdevelopment and poverty, such as the ones of Dillu and Hiddi, this architectural project seeks to facilitate feasibility, accessibility of resources and sense of community through the implementation of a modular system which can later become an urbanizing prototype on a larger scale. One basic room-module and two roof-modules (pitched and reverse-pitched) were defined from an initial triangular unit. These modules can then be freely, diversely and endlessly arranged following a "honeycomb" grid which guarantees correct distribution and usability of space but also adaptability to each settlement's needs and ultimately a different, context-based and tailor-made architectural result.

Another advantage of this modular system is the possibility of a smooth and consistent development overtime, which is already intrinsic in the starting concept. In this regard, great attention was given to imagine a flexible model that could accommodate all the functional needs of the preschool, but also adapt to the growing pace of the population and the variety of users. Beside the architectural appearance, one of the common elements of each settlement is the system of rainwater catchment which is implemented through the roof. The roof-modules are arranged starting from the appointed impluvium points where most of the water will converge. At these points the water will drop and be collected through a concrete gutter (canal) on the ground which will then bring it to an underground reservoir.

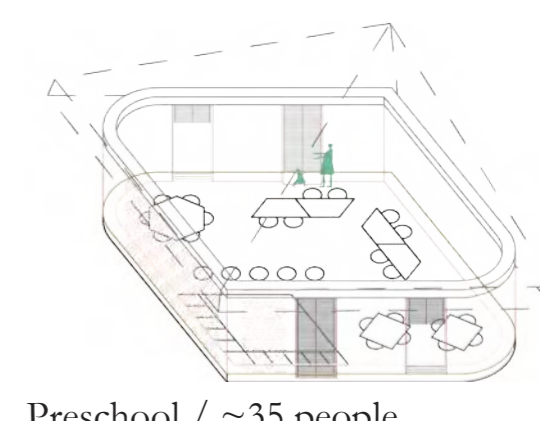
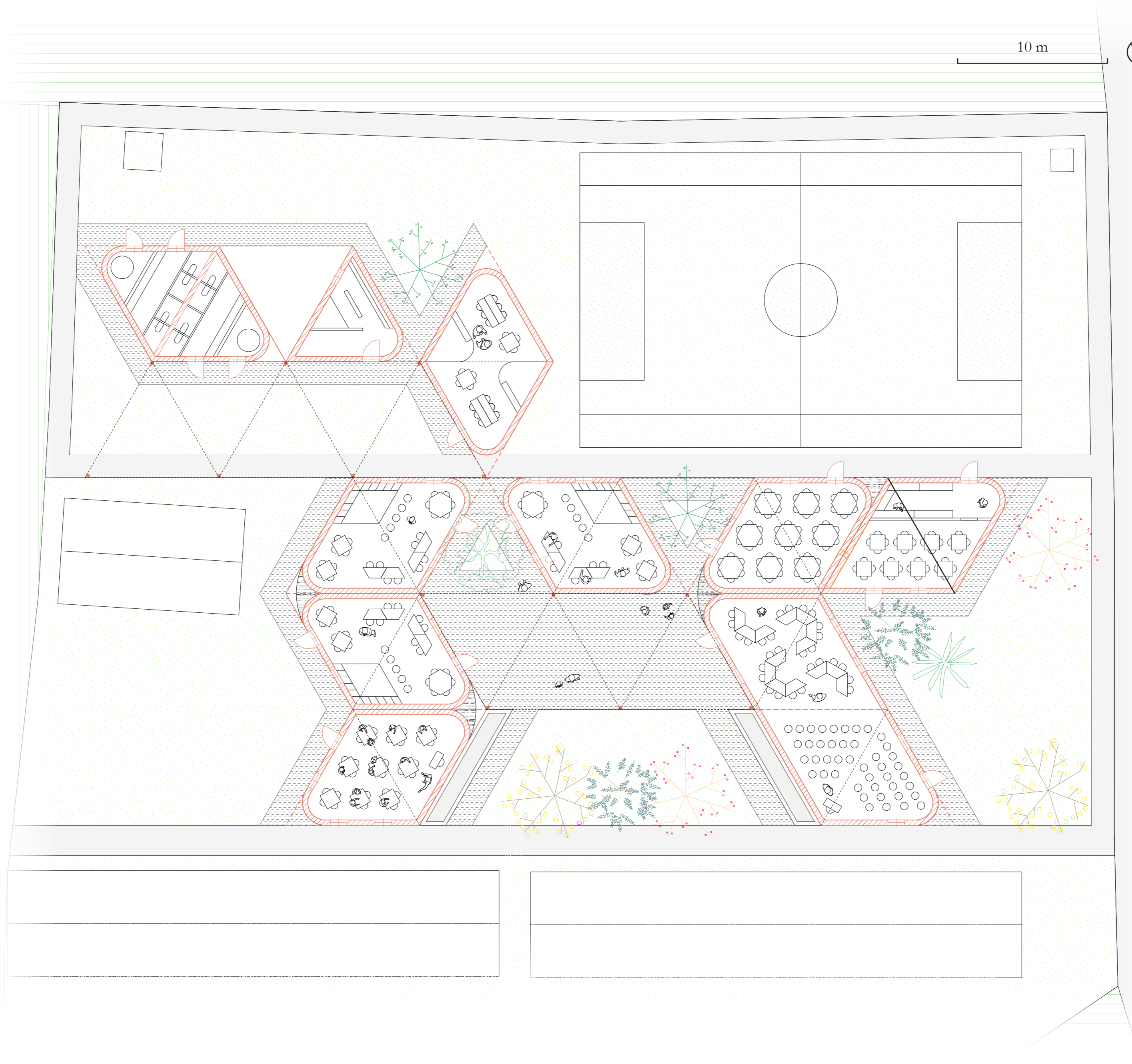
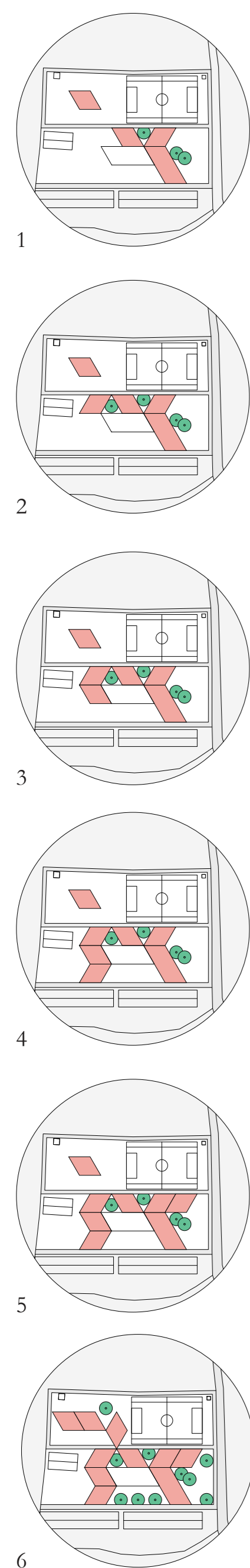


Rainwater harvesting system - In-pluvium with gutters and reservoirs

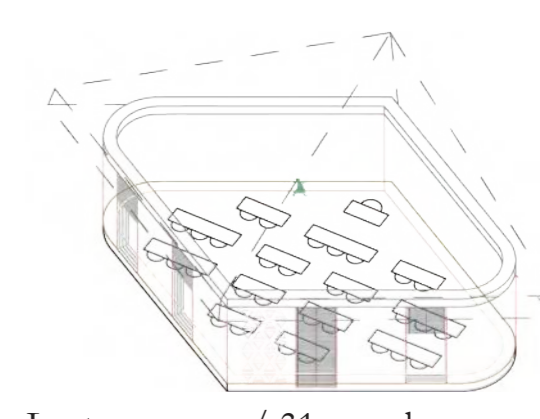
Roof module types

Development Phases - Hiddi

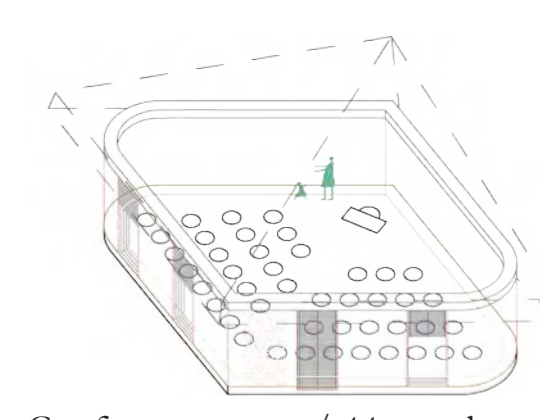
Plan - Hiddi



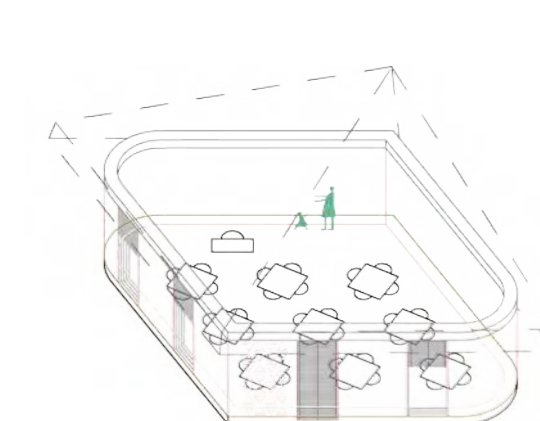
Preschool / ~35 people



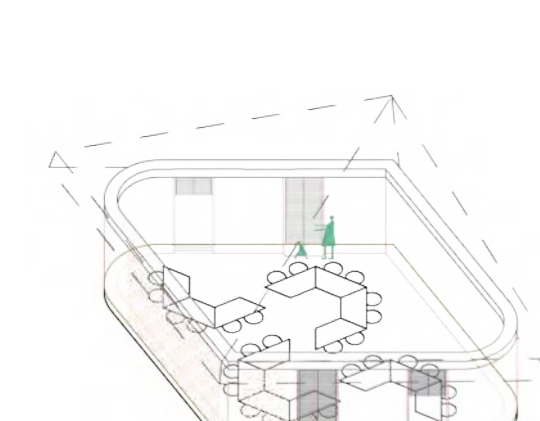
Lecture room / 31 people



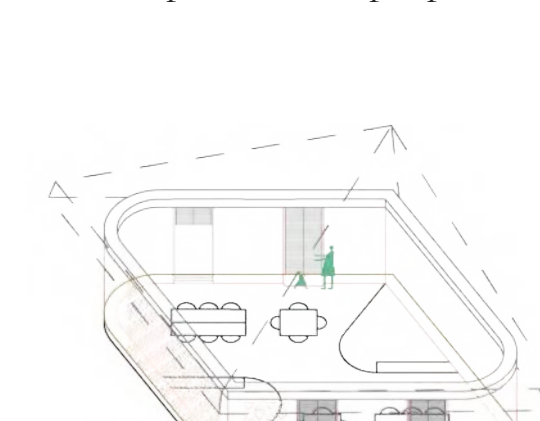
Conference room / 44 people



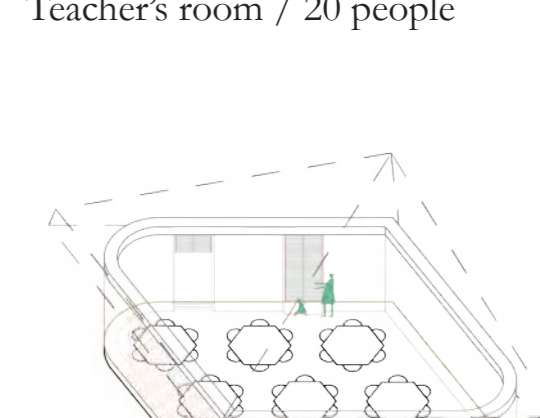
Workshop room / 36 people



Workshop room / 28 people



Teacher's room / 20 people



Dining room / 48 people



Kitchen



Latrines

