

Proposal No.06

Southern Highlands Tanzania

Subject	Children's Houses
Design	Beatrice Mhagama
Geography	Southern Highlands
Classes	2
Students	max. 80

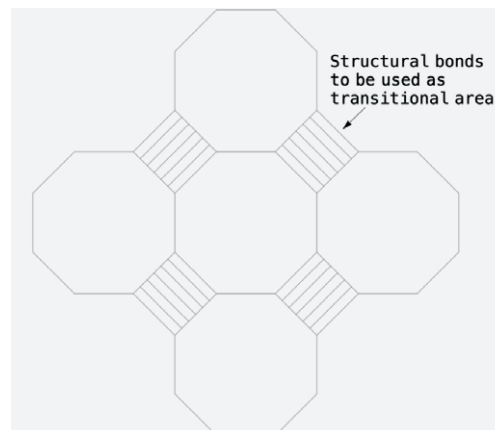


DESIGN STATEMENT

PROPOSAL APPROACH

A BEEHIVE: The design process has been influenced by the structural nature of a beehive; octagonal honeycomb structures are known to have more space to surface area ratio where there is more usable space inside the building than there is in a rectangular building while using lesser building materials.

Flexibility: since the design follows the use of a fictive site then the use of flexible structures was inevitable, this structure allows for a variety of internal divisions as well as block arrangement in variety of shapes depending on site conditions.



RESPONSE TO COMPETITION

Design requirements:

- **Accommodate 80 students and teachers**
The structure's main characteristics is having more usable space within the building envelope this allows the accommodation of more students within a given space.
- **Flexibility and adaptability of design**
Since the design involves the use of a fictive site the flexibility and adaptability should be one of the most considered features, the design is adaptable to an increase in number of children, size of plot and the nature of plot.
- **Budget of not more than USD 45,000**
Since funds are a challenge then the design must in cooperate affordable building materials (easily or locally obtained) and the use of simple but efficient building techniques.

DESIGN STATEMENT

ACHIEVING LEARNING SPACES



The approach used to achieve learning spaces is one that allows the child to explore and manipulated the surroundings

This has been achieved through having flexible furniture and fixed furniture.

- The flexible furniture once rearranged allows the child to use the floor as the primary working surface.
- Fixed furniture within the learning space includes window seats that allow the child to interact with the outside while seated inside, nooks that allows the child to perform daily learning without intrusion and built-in open storage spaces.



DESIGN STATEMENT

Interconnected spaces

The provision of large windows in learning spaces has allowed the child to learn from the outside and expand their curious mind even while still seated inside.



COST CALCULATION

SCHEDULE OF ACCOMMODATION AND COST CALCULATION

SCHOOL

NO	DESCRIPTION	AMOUNT (TZS)
01	Learning space A	22,033,600
02	Learning space B	20,858,600
03	Kitchen	11,251,800
04	Greeting Space	19,683,600
05	Workshop	11,839,300
	TOTAL AMOUNT	85,666,900

EXTERNAL WORKS

NO	DESCRIPTION	AMOUNT (TZS)
01	Toilets	13,011,200
02	Verandah & Ramps	4,073,600
	TOTAL AMOUNT	17,084,800
	TOTAL ESTIMATED COSTS OF THE PROJECT	102,751,700

VISUALS INSIDE



VISUALS INSIDE



VISUALS INSIDE

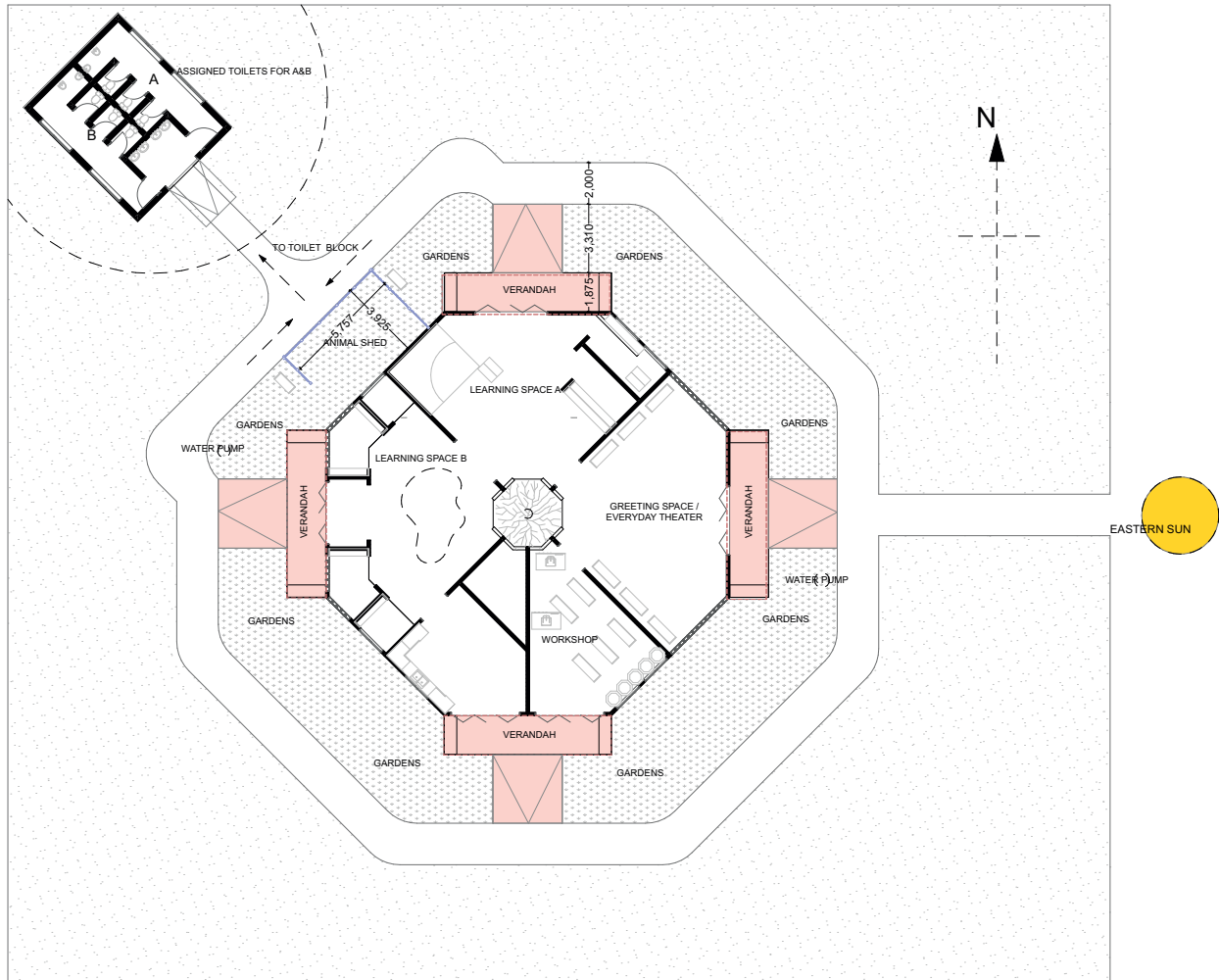


VISUALS INSIDE



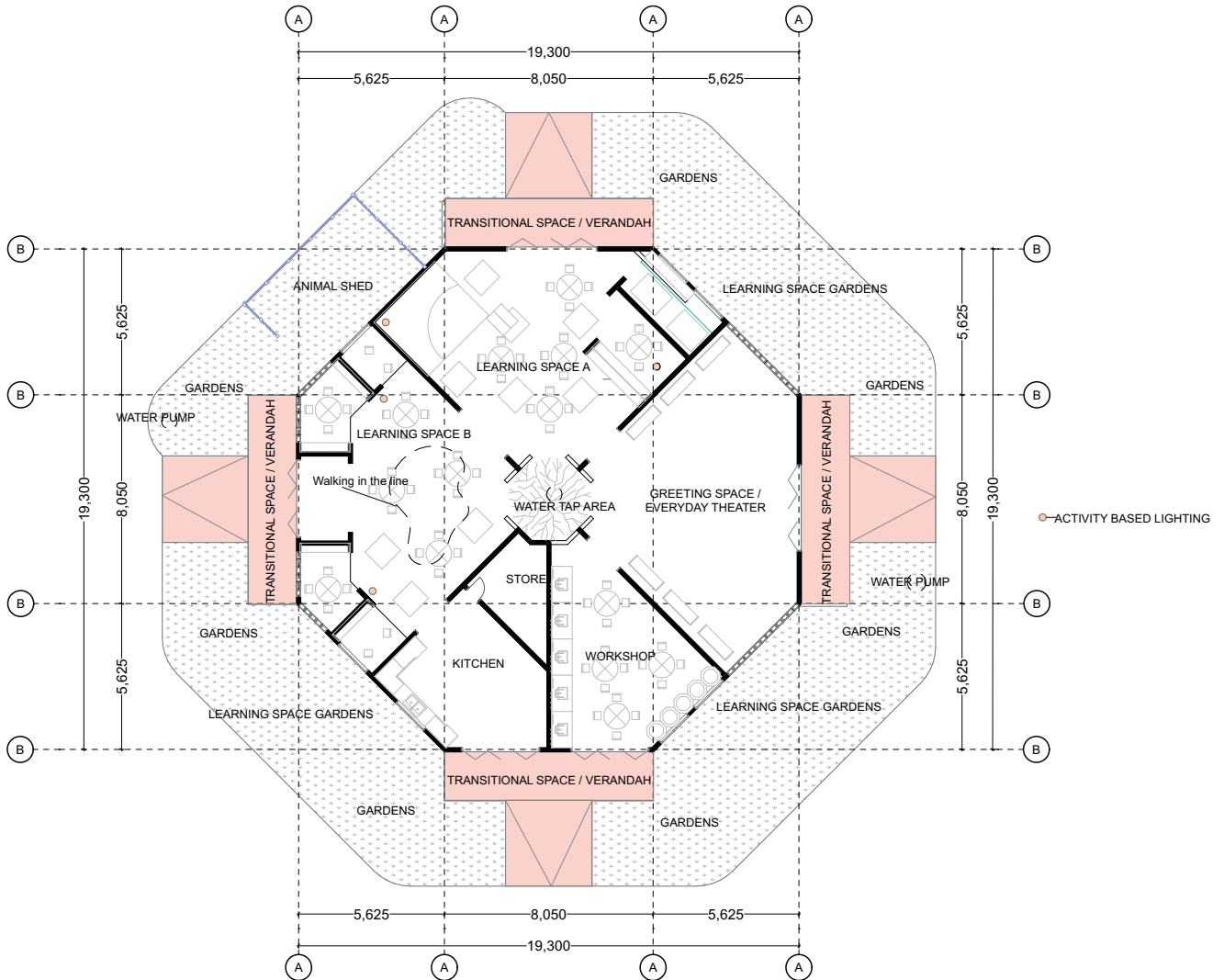
PLANS

SITE LAYOUT

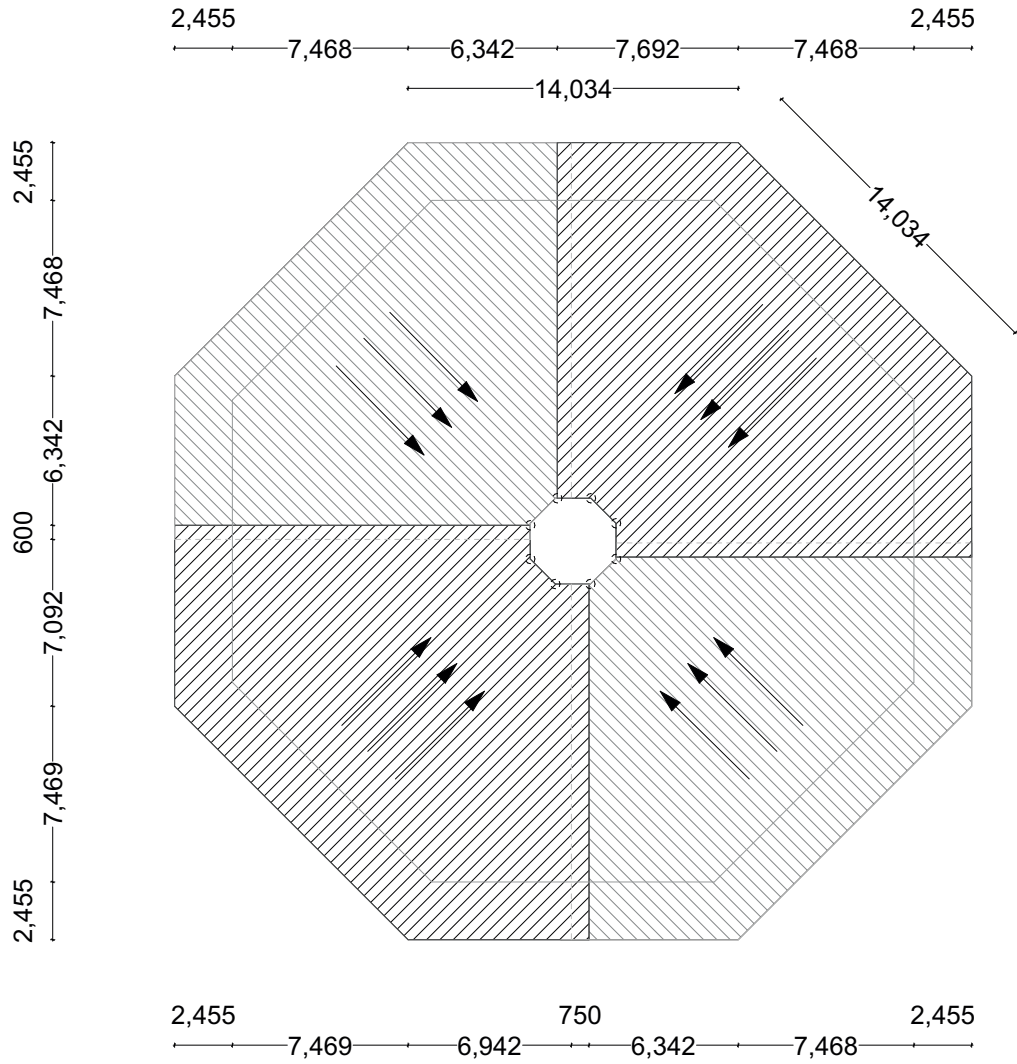


PLANS

GROUND FLOOR PLAN

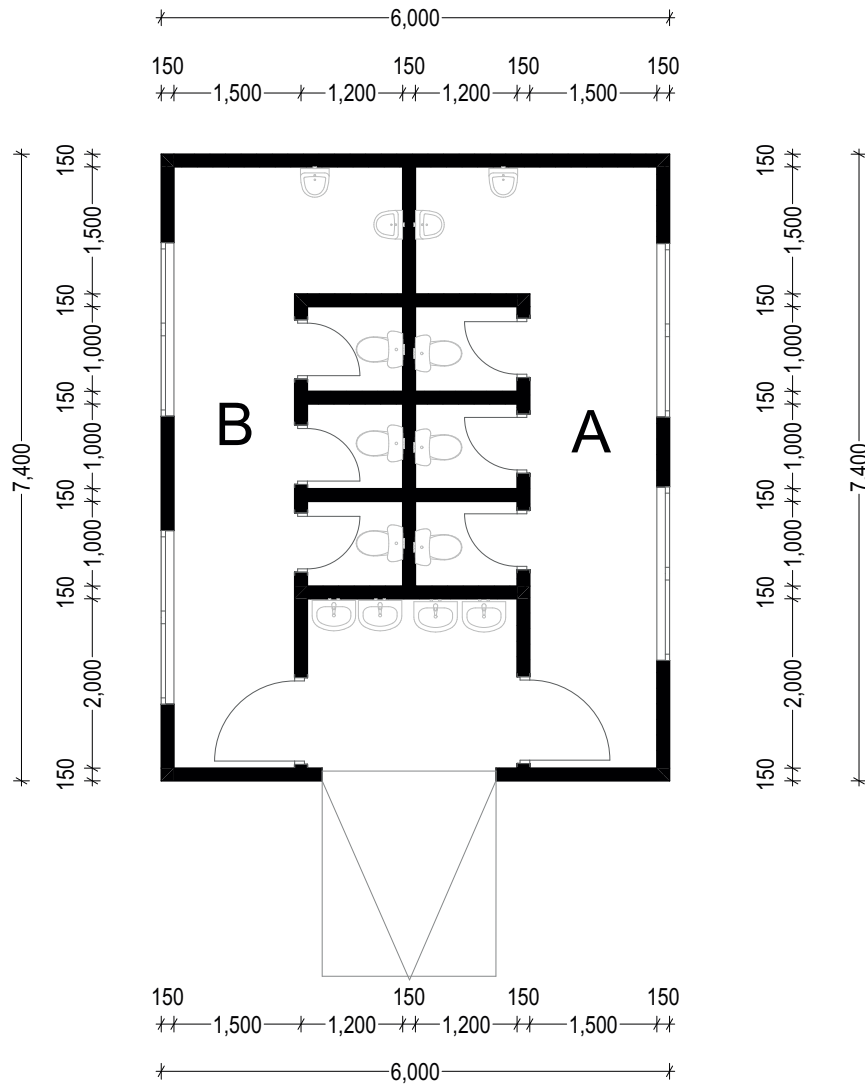


PLANS

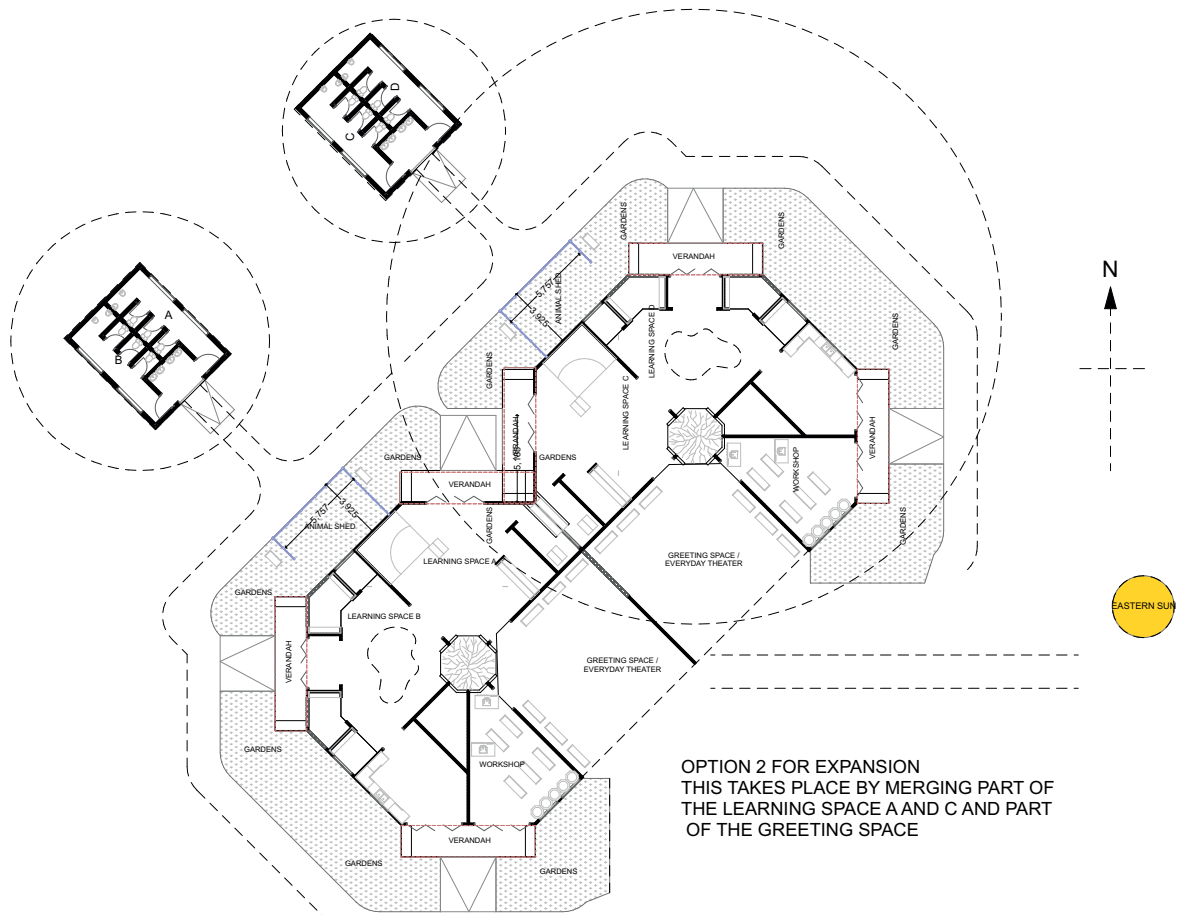
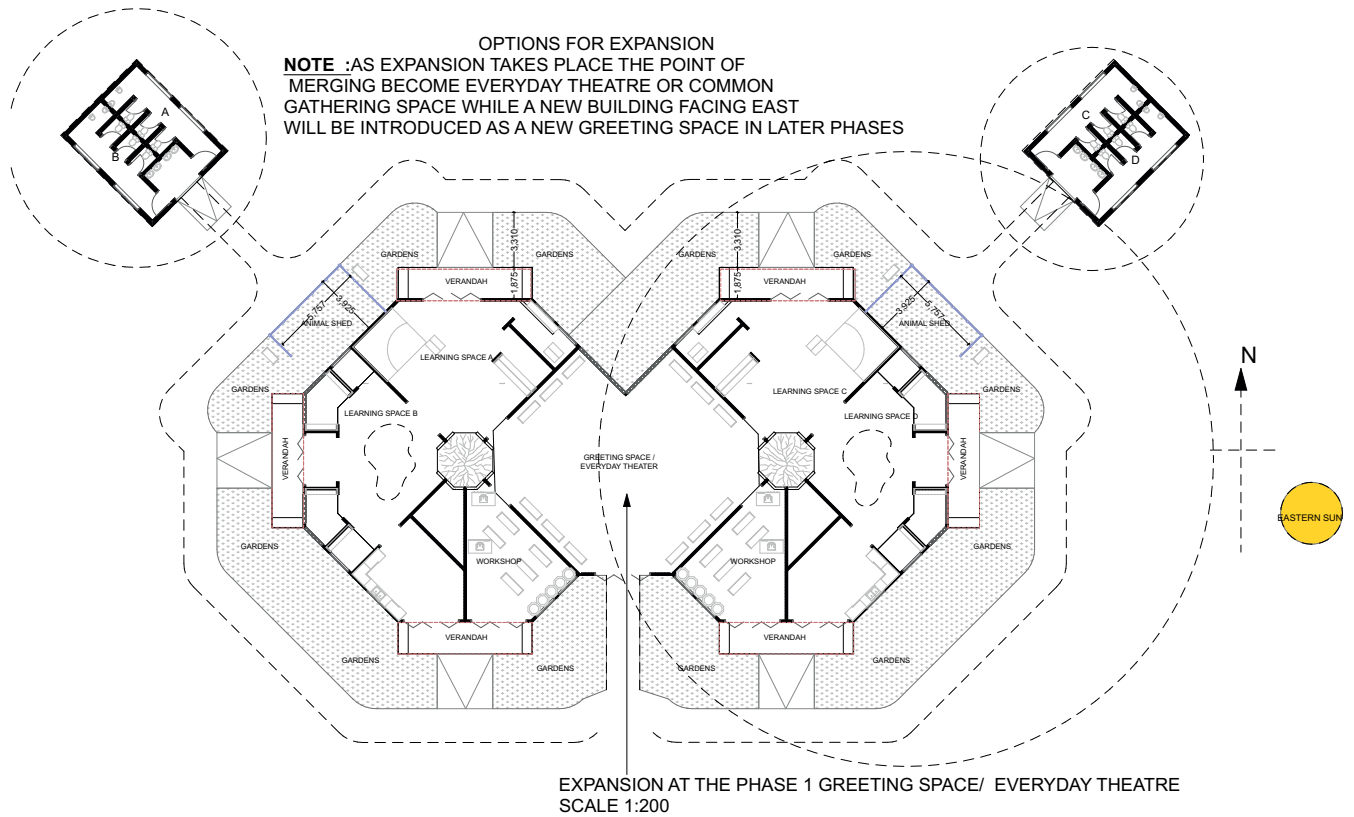


PLANS

TOILET BLOCK FLOOR PLAN



PLANS



ABOUT

BIOGRAPHY

My name is Beatrice Mhagama. As a graduate with a Bachelor of Architecture degree from Ardhi University, Dar es Salaam, I am currently working as an assistant at ALAMA ARCHITECTURE. I am a strong advocate of sustainable designs. My approach towards architectural design is focused on minimising negative environmental impacts, the use of practical building materials and delivering cost efficient designs.



CONTACT

BEATRICE MHAGAMA

beatrix.millan03@gmail.com

Tel: +255678683410 (Local number)

Tel: +255759715403 (WhatsApp)