



GOOD SAMARITAN CHILDREN CENTRE

BUILDING
PROPOSAL
2023-2033

PROBLEM STATEMENT

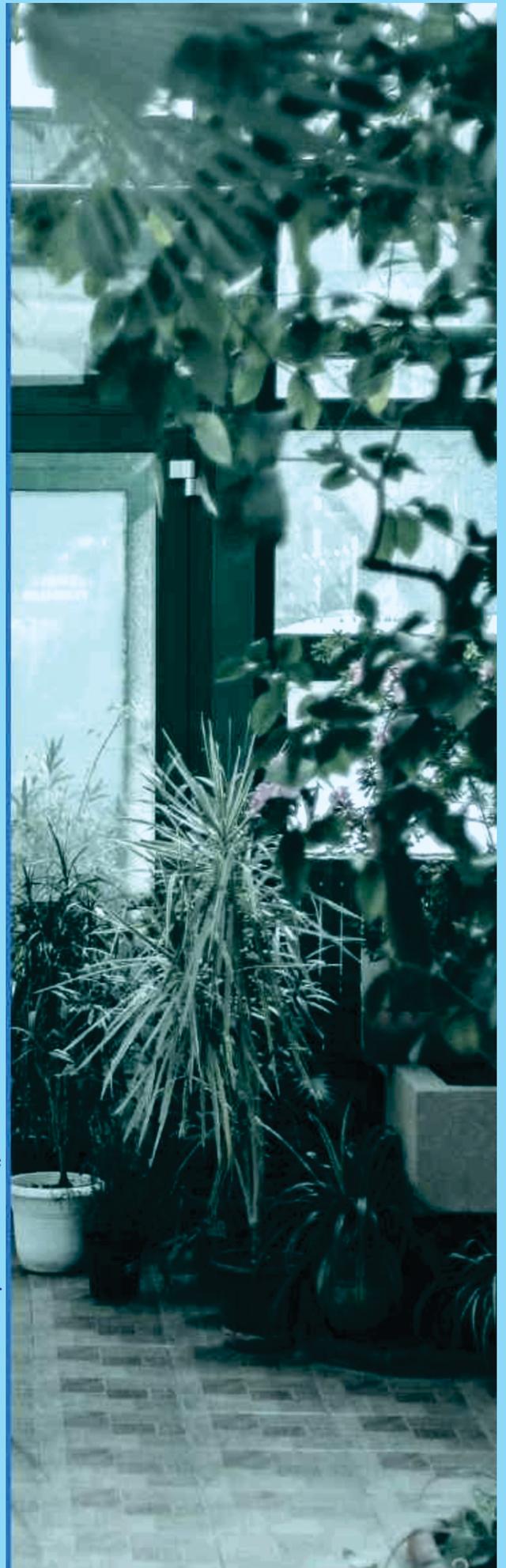
The brief is to answer the strategic objective that is to come up with a sustainable centre that will provide:

- 1) Accommodation for the orphans and needy children.
- 2) Farm suitable for learning and the growth of food.
- 3) Build a model school that will support the orphanage.
- 4) Safe playground for the children.

PROPOSAL DELIVERABLES

Good Samaritan Childrens Home and the Design team agreed on the following deliverables:

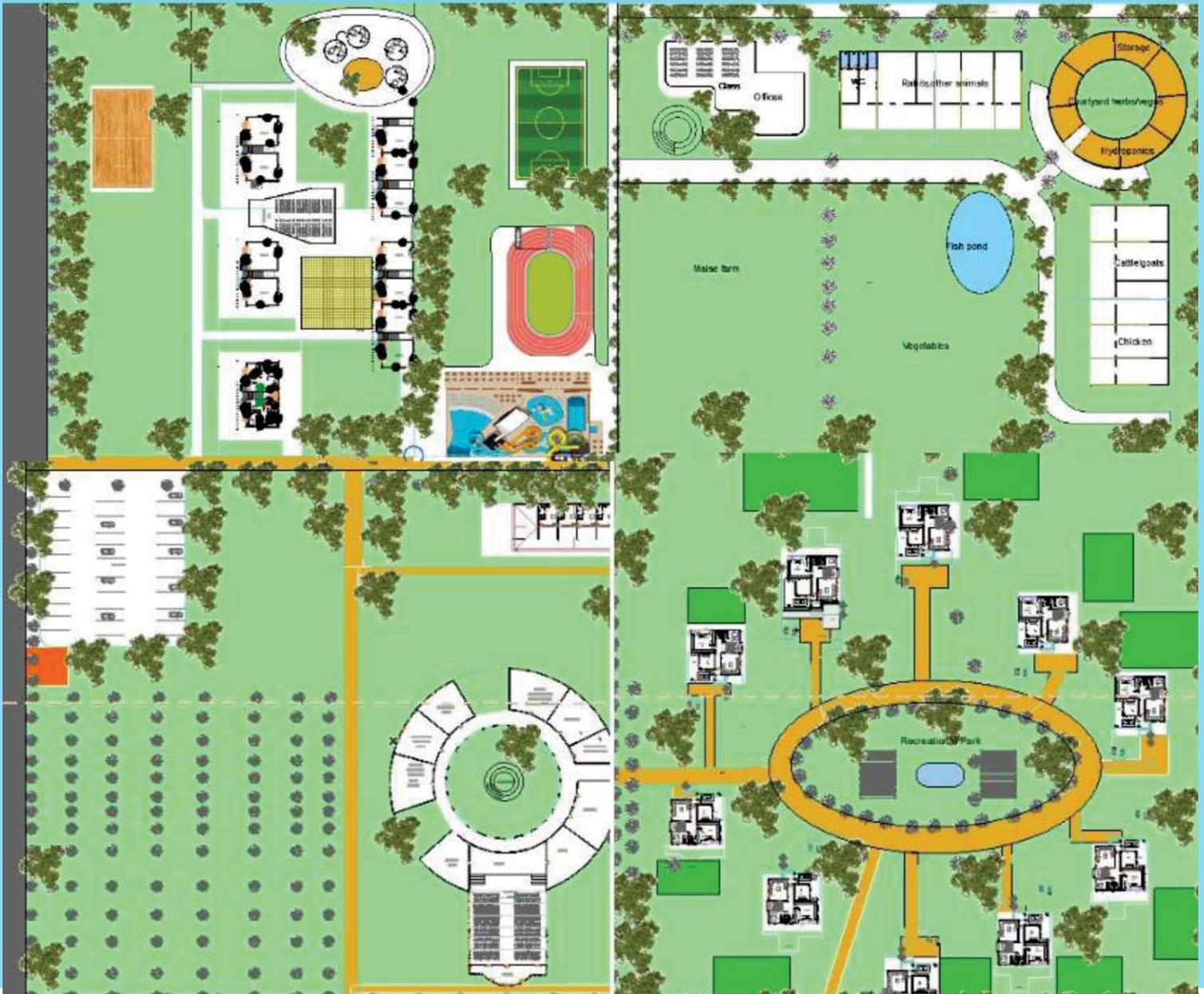
- a) Develop an architectural design for the following;
 - Good Samaritan Children Centre- 10 maisonette units
 - Children Centre and Administration Block
 - Farm for livestock, poultry and crops
 - Adkins Preparatory School
- b) Create a sustainability plan for the above, both in function design and in operations.
- c) Carry out estimates for pre-construction and construction of the above spaces.
- d) Research local engineering materials, construction practices and applicable design codes; based on the findings, proportion the structural members for all the buildings.
- e) Produce architectural and engineering drawings for all the structures.



The Masterplan

The Masterplan Intergrates the following:

1. Children's Village
2. Children's Skills Center
3. School
4. Sustainable farming

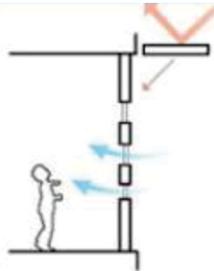


Design Principles

*Strategy 01

Reduce solar gain.

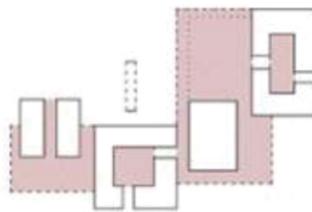
Integration of the double roof structure and overhangs provides cooler temperatures in the building.



*Strategy 02

Maximise the use of outdoor space

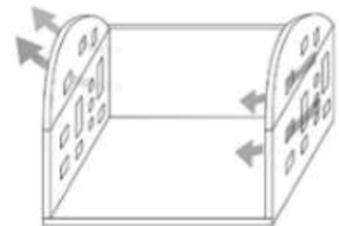
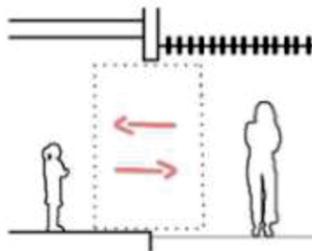
Usage of canopy structure to provide important protection from the heat



*Strategy 03

Take inside outside

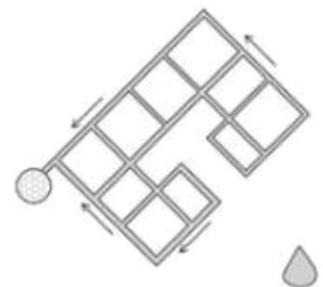
Create breathing facade with multiple penetrations that allow air movement.



*Strategy 04

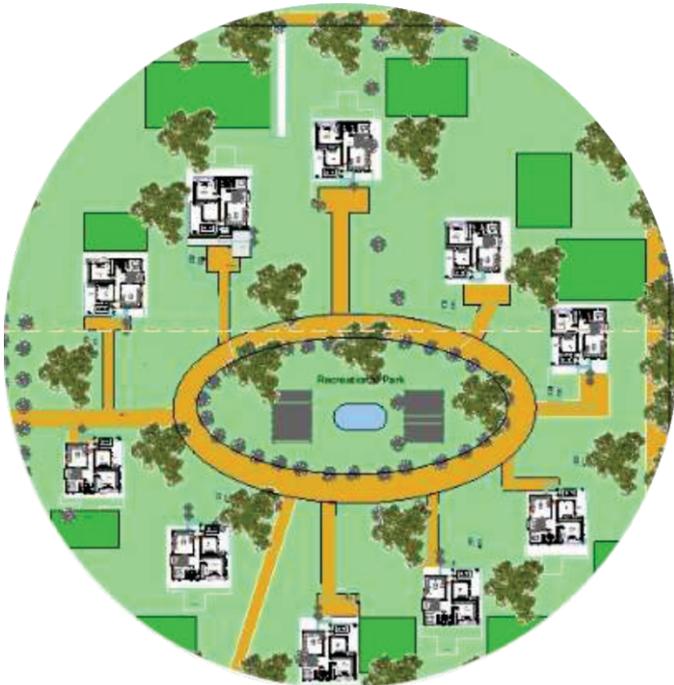
Rainwater Harvesting

Vaulted structure of the roof and large surface area allows rainwater collection. for irrigation on the student's garden.



1. GOOD SAMARITAN CHILDRENS CENTER

- ◆ The children's village is a circle of community that knits together 10 houses. Each house is a maisonette of 6 bedrooms each.
- ◆ The village has a recreational park in the middle where the children and youth connect, play and meet as brothers and sisters.
- ◆ Each house has its own kitchen garden where they get their vegetables, learn home skills and are responsible for their own food production.
- ◆ Each house accommodates 10 children, and in total the village will have 10 houses for 100 children.
- ◆ A typical house of 260 sq meters will have 6 bedrooms, 7 baths, 1 kitchen and pantry, lounge and dining, outdoor dining, gazebo and one kitchen garden.



Children's village masterplan



Typical Ground Floor plans



Typical First Floor plans

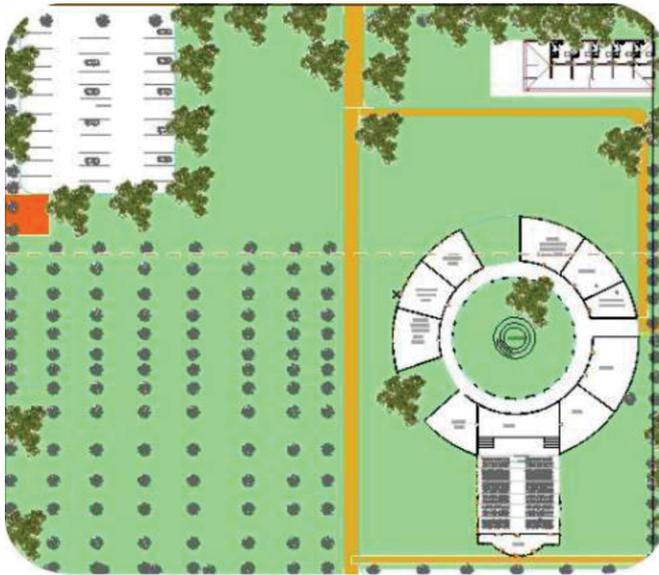
Children's Village Cont.

Typical Unit render



Aprox. Cost Ksh. 10 600 000/& 106 000 per unit

2. CHILDREN SKILLS /TALENT CENTRE

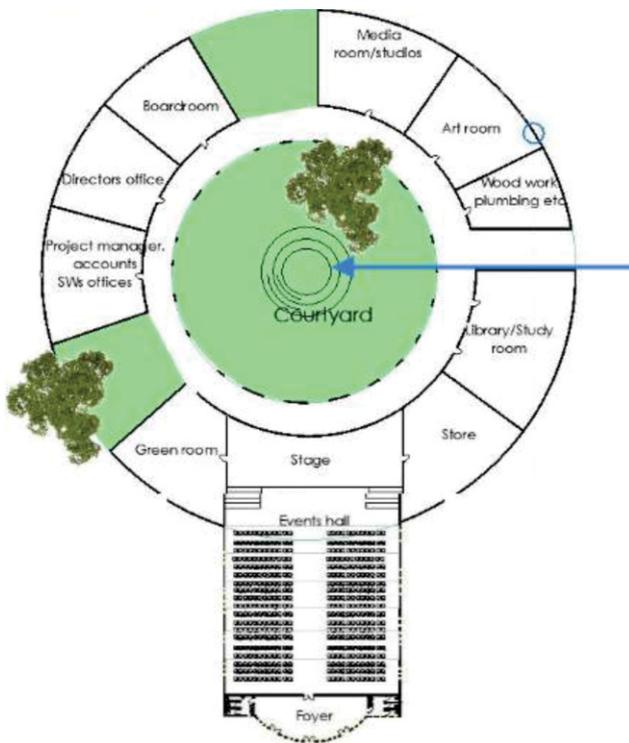


Children Village masterplan

Circle of life, circle of learning

The term "learning together" refers to the educational notion of the circular form. The idea takes its cues from traditional African village typologies and the renowned tree of knowledge.

Similar to the meeting places seen beneath the trees, along with the numerous ringed canopies that grow to offer protection and shade. A courtyard for socializing and knowledge exchange is at their center. The skills required to sustain a community are taught to the students, where theoretical knowledge is supplemented by real-world experience.

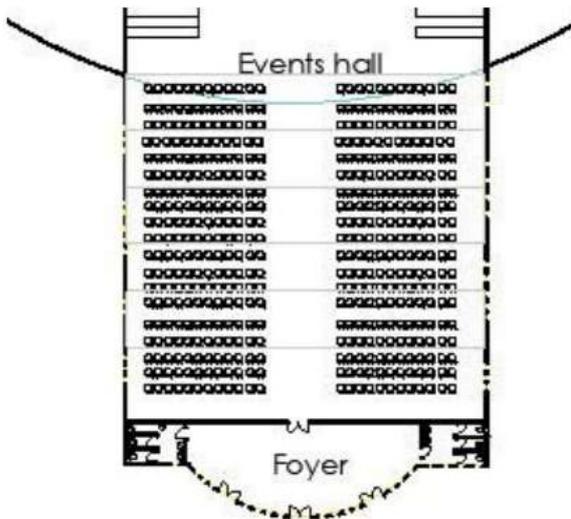


1. Directors Office
2. Other offices
3. Boardroom
4. Artroom
5. Media room
6. Library
7. Hand Skills room
8. Breakout room
9. Events hall

CHILDREN CENTRE CONT.

Children's courtyard-African tree

A hub for harmony. a place to play, connect, and form friendships. The idea for the courtyard originated from an African tree baraza, where people congregate, mingle, and occasionally talk about important topics. It's an escape from the somber offices, the corridor, and the skill-building courses.



The events hall/Amphitheatre
Capacity -200 people
Green rooms
Washrooms at the foyer
The hall can be used for workshops, conferences and events.
It can be hired out to outsiders at a fee

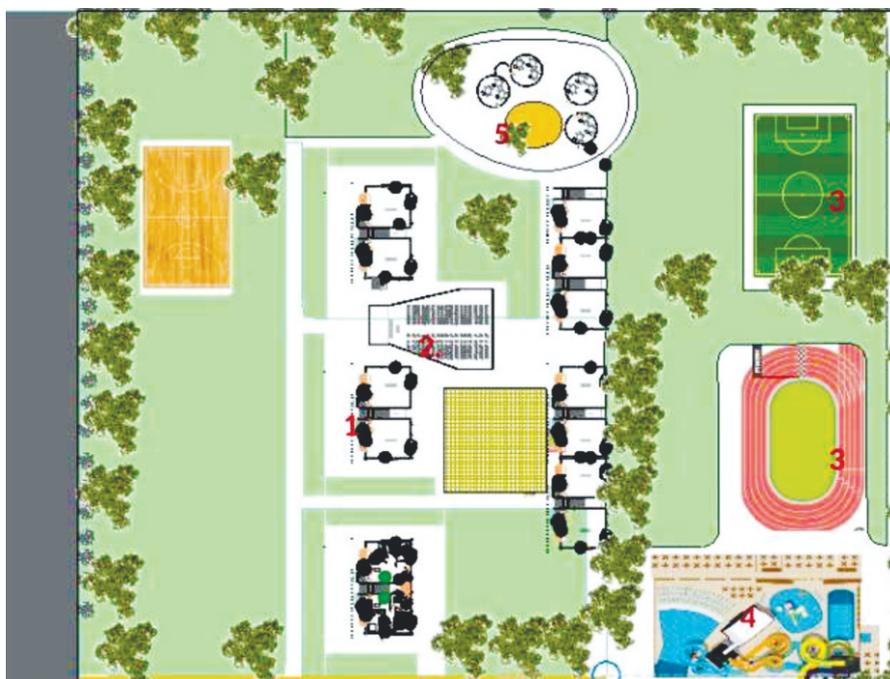
The events hall

3. ADKINS PREPARATORY SCHOOL

(Education For Sustainable Development)

The goal of the Good Samaritan Childrens Home is to nurture every child to their fullest potential, and a key part of that goal is universal education. Children who receive an education are better equipped to combat poverty and other forms of inequality when they grow older.

Children can socialize, receive help, and be in a safe atmosphere at school. Here, students pick up life lessons that can help them avoid illnesses like malaria and HIV/AIDS. At school, kids can learn how to save lives and eat healthily.



- 1. Glass block
- 2. Amphitheatre
- 3. Football field
- 4. Waterpark
- 5. Kindergarten

School Masterplan

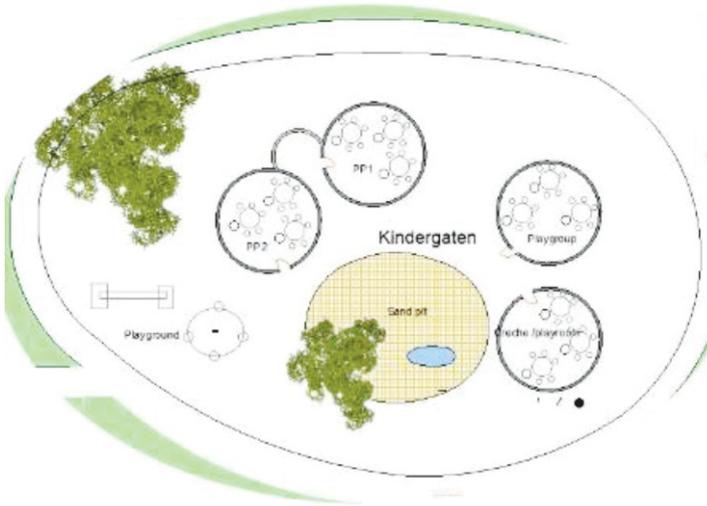


School cont.



Play ground

Recreation fields



We believe that for kindergarten - aged children, the world is a playground of exploration. Learning happens through the magic of play. We encourage them to embrace the natural world with boundless curiosity, in a gentle, sensory-rich, and enchanting learning environment.

Case study Mount Kenya Waldorf school

A school that is sustainably built and also teaches children how to become eco warriors



Childrens Village masterplan



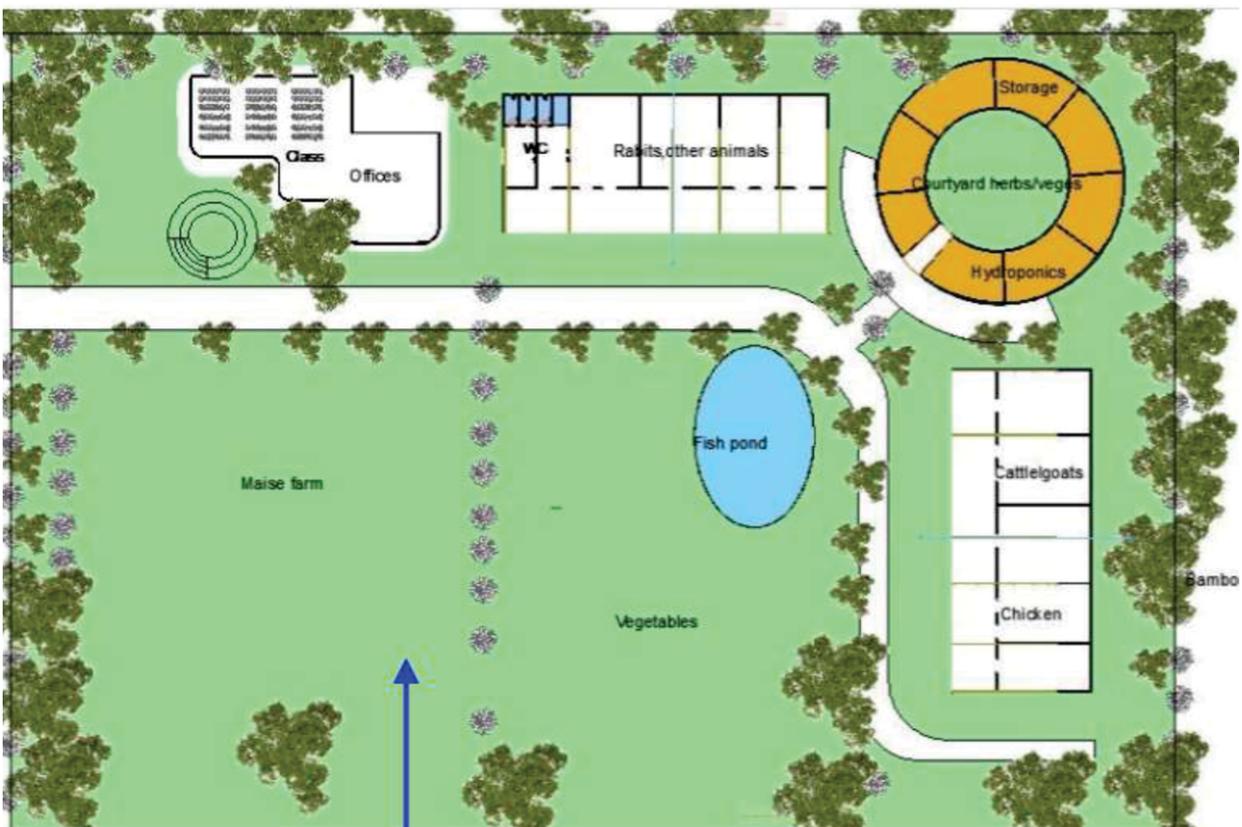
Nested in the slopes of Mount Kenya, there lies a hamlet of those who have gathered together to learn , shape and mold future citizens for the world. This is the Little Mountain Village, a waldorf initiative school.

Kindergarten classes mimic home but structures where kids enjoy play as they learn. Its not your typical class. The huts have been built using locally available materials like clay which has been used to make the house finish and making blocks for the walling.

4. FARM

One of the school's goals is to educate the student's about sustainable farming method. False practice such as burning farmlands, selecting wrong crops, they lead to loss of healthy soil by weakening its structure, nutrients and water retention capacity. The farms and cultivated courtyards serve as educational simulation of sustainable farming methods for students. Crop rotation integrated with legumes and sweet potatoes will be adhered to. Modern methods like aquaponics and hydroponics will form part of the curriculum.

Waste will be converted to compost used to fertilize the vegetarian as an alternative for buying expensive shop fertilizer some water will harvest from the rain to supplement the borehole water. Through this practice the students will acquire necessary knowledge and skills regarding effective resource management.



Farm Masterplan



Farm Cont.



Farm class sheds



Courtyard research farm



Hydroponics



Fish Ponds



Cereals farm



School /Kids farm

Landscaping



5. SUSTAINABILITY

Sustainability entails separating the programs and activities aimed at generating funding from the orphanage, whereby the mandates of each side are made explicit.

The income generating side emphasizes on creating revenue that can be used to fund the orphanage side's operations, whilst the orphanage side focuses on providing care for children.

Teams, organizations, and procedures will be established as a result of this division to help each side fulfil its primary objectives.

It's prudent to determine the monthly or yearly consumption of the orphanage side by measuring it. Consequently, it's good to design a company or initiative based on that which will provide at least half of what the orphanage side requires. That is, once the enterprise or project has reached financial parity and is able to support it ought to be absorbed; it's wise to keep putting money back into the company or undertaking. Hire experts and professionals in the field/industry to staff the project and business side, if at all possible. If established correctly, the business side can access sophisticated funding options that are not available to a regular orphanage. It's also a good idea to start small but be strategic enough to grow a project or business over time so that, in five or ten years, for example, it can make enough money to support itself and the orphanage.

**The
School**

**Swimming
Pool/waterpark**

**The
Farm Produce**

**Amphitheatre/
Hall hire**



The water park will be used for schools and commercial



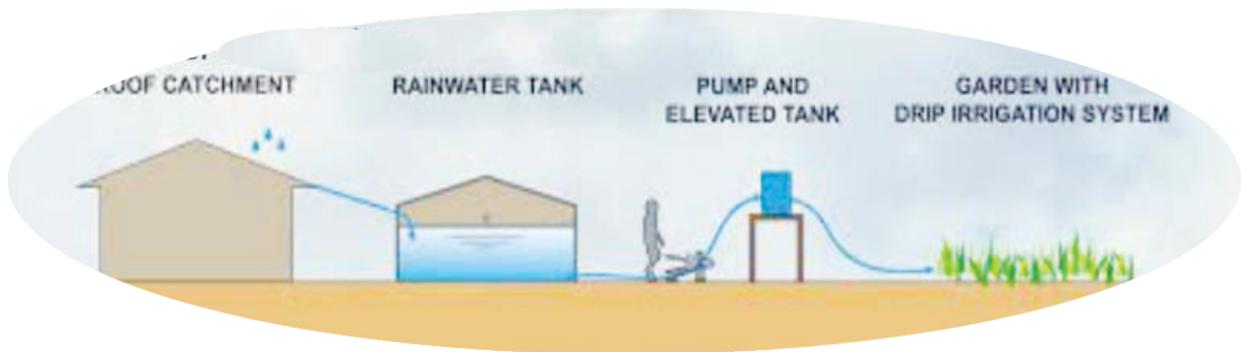
The school will generate income that will be used to fund goods Samaritan activities

5. SUSTAINABILITY IN DESIGN

1. Use Local materials



2. Rain Water harvesting



Rather than depending solely on a regions public water supply, incorporating rainwater harvesting and collection systems can provide a supplemental source of water drinking (the quality is often better than surface water), cleaning , irrigation and bathing.

3. Solar Power



4. Use of Biogas in cooking

PROJECT COSTINGS

The cost analysis factored in construction materials such as corrugated steel sheets, structural steel, masonry and reinforced concrete Cost estimates were based on 2023 materials pricing with adjustment made for inflation.

BUILDING /ITEM	COST(KSH)
Children Village 10mansionettes @ Ksh.10 600 000	Ksh. 106 000 000
Children's Talent Centre & hall	Ksh.38 575 000
School	Ksh.96 768 267
Farm setup, class, Sheds , Mechanical and plumbing works	Ksh.9 400 000
Support facilities-staff quaters, power room.	Ksh.33 500 000
Consultants fees, approval fees	Ksh.35 000 000
Contigencies	Ksh.10 000 000
TOTAL	Ksh.329 243 267

PROJECT DELIVERABLE (BY PHASE)

The project will be sub-divided into the following design phases: public engagement/ research, schematic design, design development, documents and construction administration deliverables for each phase as listed in the following pages.

Concept and Public Engagement

- *Children's Centre Narrative*
Opinion/interviews
- *Concepts and ideas*
- *Observe and document existing*
Property/site conditions
- *Masterplan Concept Plan*

Schematic Design Phase

- Architectural planning and design of structures
- Meeting with Centres staff and children site topographical survey
- Preliminary utility requirements structural design

Construction Phase

- Bidding of contractors
- Breaking ground
- Construction and supervision

GOOD SAMARITAN TEAM

The Implementors

**GOOD SAMARITAN
FRIENDS**

**GOOD SAMARITAN
PROJECT
MANAGER/REPRESENTATIVE**

**CONSULTANTS-
ARCHITECTS, STRUC.ENG,
QR, CONTRACTORS**

***Never underestimates the ability
of a small group of committed
individuals to change the world***