# DESIGNPLUS ARCHITECTURE

COMPANY PROFILE



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# ABOUT US

# Who Are We?

Designplus Architecture LTD is a professional consultancy firm offering services in the fields of architecture and interior design varying from inception of building projects, architectural design, supervision and management of construction projects and up to handing over of completed building projects.

Initiated and registered in Kenya in 2004, the professional consultancy firm also offers a diverse range of services ranging from physical planning services and environmental impact assessments and environmental audits through its sister firm Metropolis Planning and Environment varying from pre-feasibility and feasibility studies, urban design and town planning studies, research and data compilation.

We bring with us a wealthy inventory of experience gained through diverse projects we have handled both separately at individual level and collectively as a firm.

In pursuit of quality and aptness to our designs we extensively draw on the services of all concerned professionals in the allied natural and built environment consultants such as Land Surveyors, Quantity Surveyors, Land Valuers, Structural Engineers, Building Services Engineers, Landscape Architects, EIA / EA experts and Physical Planners. We co-ordinate, manage and integrate their services during the conception and realization of the projects. We also keep abreast with the fast changing information and building technologies.

### FIRM'S KEY PERSONNEL: OUR TEAM

MANAGING PARTNER

PETROVIC M. MUTHUSI B. ARCH (UON), MAAK (A) REGISTERED ARCHITECT

### ASSISTANTS ARCHITECT

DAVID KINYUA IRUNGU, B. ARCH (JKUAT),

### ADMINISTRATIVE MANAGEMENT

DAMARIS NDUNGE MUNYAD, DIP. BUSINESS MANAGEMENT



# **SURVEYS, RENOVATIONS AND INVESTIGATIONS**

Measured building surveys Repairs and restoration works Assessment and documentation of conditions of premises and schedule of dilapidation Proposing Fit-outs For existing property



# W H A T W E D

# **ARCHITECTURAL (BASIC SERVICES)**

Inception, brief formulation, advice on consultants and specialist firm needs Outline Design Proposals Scheme Design and Planning Approval Detailed Design

## Special drawings and models Contract and Tender Documentation and Analysis Selection of Contractors, Sub-contractors and Suppliers Construction Supervision and Contract Management to Completion. Handing Over and Guidance on Maintenance





# **INTERIOR DESIGN**

Interior space design including partitioning and finishes Furniture and fittings.

# MASTER PLANNING AND TOWN PLANNING

Urban Planning and Master Planning for Communities; Industrial, Residential (Gated Communities), Green Spaces and Commercial.

# <u>CO-ORDINATION AND</u> MANAGEMENT OF CONSULTANTS' SERVICES

Quantity Surveying Structural Engineering Civil Engineering Mechanical Engineering Electrical Engineering Town Planning Furniture & Industrial Design Graphic Design



# **ADMINISTRATION AND PROJECT MANAGEMENT**

Project management and co-ordination Specialized trades or supplier's contracts As-built drawings and specifications Direct Labor Contracts Specialized Trades or Suppliers Contracts Maintenance Programmes and Manuals

# **NEGOTIATIONS**

Planning applications and appeals Building regulations and exceptional negotiations. Landlord Approvals

# **ARCHITECTURAL PHOTOGRAPHY**

# **FLY-THROUGH AND WALK-THROUGHS**

Using different softwares to achieve 3D Visualisation for the Projects to show the client what the project could be Highlight changes of an existing building Highlight the material used in the project



# **VISUALISATION AND RENDERING**

Taking the client through the project virtually during its inception to completion 3D and 2D Visualisation of other projects from other firms in our Visualisation Department





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Existing Property for Documentaion and Real Estate Purposes

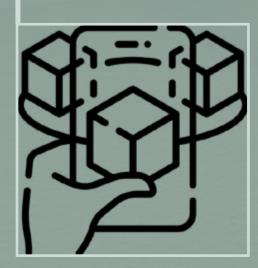


## **VIRTUAL REALITY, VIRTUAL WALK-THROUGHS**

**Outline Design Proposals** Scheme Design and Planning Approval Detailed Design

Special drawings and models Renovation of existing houses Illustration of Different ways of Fitting Out

Existing Property for Documentation and Real Estate Purposes



Our services are governed and defined by the Architects and Quantity Surveyors Act CAP 525 and the Architectural Association of Kenya.

# 33 WINDCHIMES

### LUXURY APARTMENTS

## BRIEF ANALYSIS

WITH A LUXURY AND MINIMALISTIC NEED FOR THE CLIENTS,

THE THREE 12 STOREY BUILDINGS PROVIDE LUXURIOUS ONE HOUSE PER FLOOR THAT GIVES THE ENORMOUS SPACE TO OUR CLIENTS.

AT THE TERRACE LEVEL, THE BEAUTIFUL VIEW EXTENDING TO NGONG HILLS, NAIROBI CITY AS WELL AS THE TALLEST MOUNTAIN IN KENYA, MT. KENYA ON AN CLEAR DAY GIVES .

THE MODERN DESIGN ALSO FEATURES A LOT OF LANDSCAPING BOTH INDOOR AND OUTDOOR OF THE FACILITY.





LUXURIOUS AND CURATED FOR YOUR PERSONA

## SITE ANALYSIS



SITE LOCATION NAIROBI, KENYA

### NEIGHBOURHOOD AND SITE ACCESS

The Site location is convinient as it allows access from various points

in the city: being 5.5km from Kenya's Capital, Nairobi, Its location makes it prime for this kind of development.

There is one access point from General Mathenge Road. The site id close to social amenities such as schools, restaurants as well as places of worship-temples and churches.

## **DRIENTATION AND VIEWS**

With the capability of seeing as far as Mt. Kenya, the highest mountain in the country, and Ngong Hills From Neighbouring Apartment, The Design incorporated should be able to accomodate theseviews for Users of the building.

### TOPOGRAPHY

The Site Generally slopes towards the south with a drop of 10 meters from the access of the site. **RESPONSE:** 

A stepped design can be incorporated to follow the slope gradient of the land.



#### NCEPT AND OUTLINE DESIGN С





## DESIGN PROGRESS



TIMELINE: FEBRUARY 2021 - 2023 An iconic structure comprising of 3 towers of 11 Storey Each offering a private haven on each floor with a private entrance lobby.





## TOPOGRAPHY:

The site slopes towards the rear part of the land with a gradient of about 10 meters.

### **RESPONSE:**

A stepped design incorporated to follow the slope gradient of the land.

A Parking Space has been introduced such that the Blocks have a floor to each of the parking spaces provided.

This as well gives continuity of flow of air into the building, especially at the basement levels.

### Building a Curve...

A curve is a series of many straight lines as Tangents.

Here at 33, We Built the structure first followed buy the partitioning and finishes.



LUXURIOUS AND CURATED FOR YOUR PERSONA



Greenery is Key in Our Projects. At the site, Landscaping has been implemented In between the buildings. Waterproofing as seen on the right Is one of the measures taken to make the Place Green.

A water Fountain is also a key feature at the site. It is located at the entrance of the Luxurious Space. This is to give a calming and cooling effect to the residents of the space as the enter the premises.



WATER PROOFING



**SUNSHADING** 

Implementing deep Balconies on the east-facing facade to protect the inhabitants from harsh temperatures ensuring they have a microclimate in their living spaces

Here at 33 Windchimes, we have a window screen incorporated in our design.

What is a window screen? A protection layer that serves to keep leaves, debris, bugs and birds from





PANAROMIC VIEW LOUNGE AND DINING

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COLOR PALLETTE



 ACTUAL IMAGE
 MARCH 2023

 TIMELINE: FEBRUARY 2021 - ONGOING

 An iconic structure comprising of 3 towers of 11 Storey Each offering

 a private haven on each floor with a private entrance lobby.

LUXURIOUS AND CURATED FOR YOUR PERSONA

# FORTUNE GREEN

LUXURY VILLAS

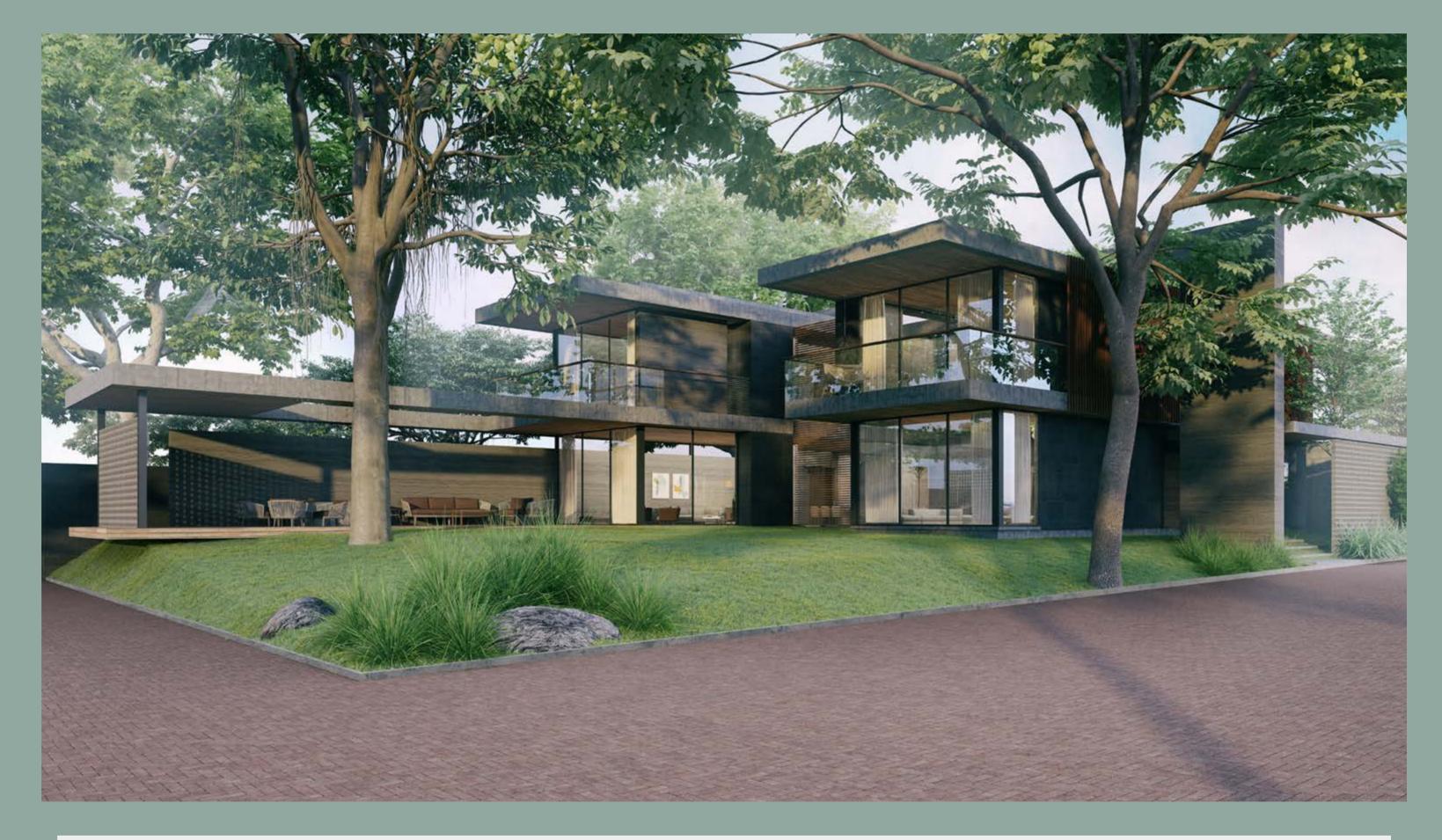
## BRIEF ANALYSIS

WITH A LUXURY AND MINIMALISTIC NEED FOR THE CLIENTS,

THE FIVE HOUSES PROVIDE LUXURIOUS ROOMS THAT GIVES THE ENORMOUS SPACE TO OUR CLIENTS.

ATTHE HUGE TERRACE LEVEL, THE BEAUTIFUL VIEW OF THE GARDEN CAN BE REALISED WITH CONNECTION TO THE OUTSIDE ENVIRONS.

THE MODERN DESIGN ALSO FEATURES A LOT OF LANDSCAPING BOTH INDOOR AND OUTDOOR OF THE FACILITY.





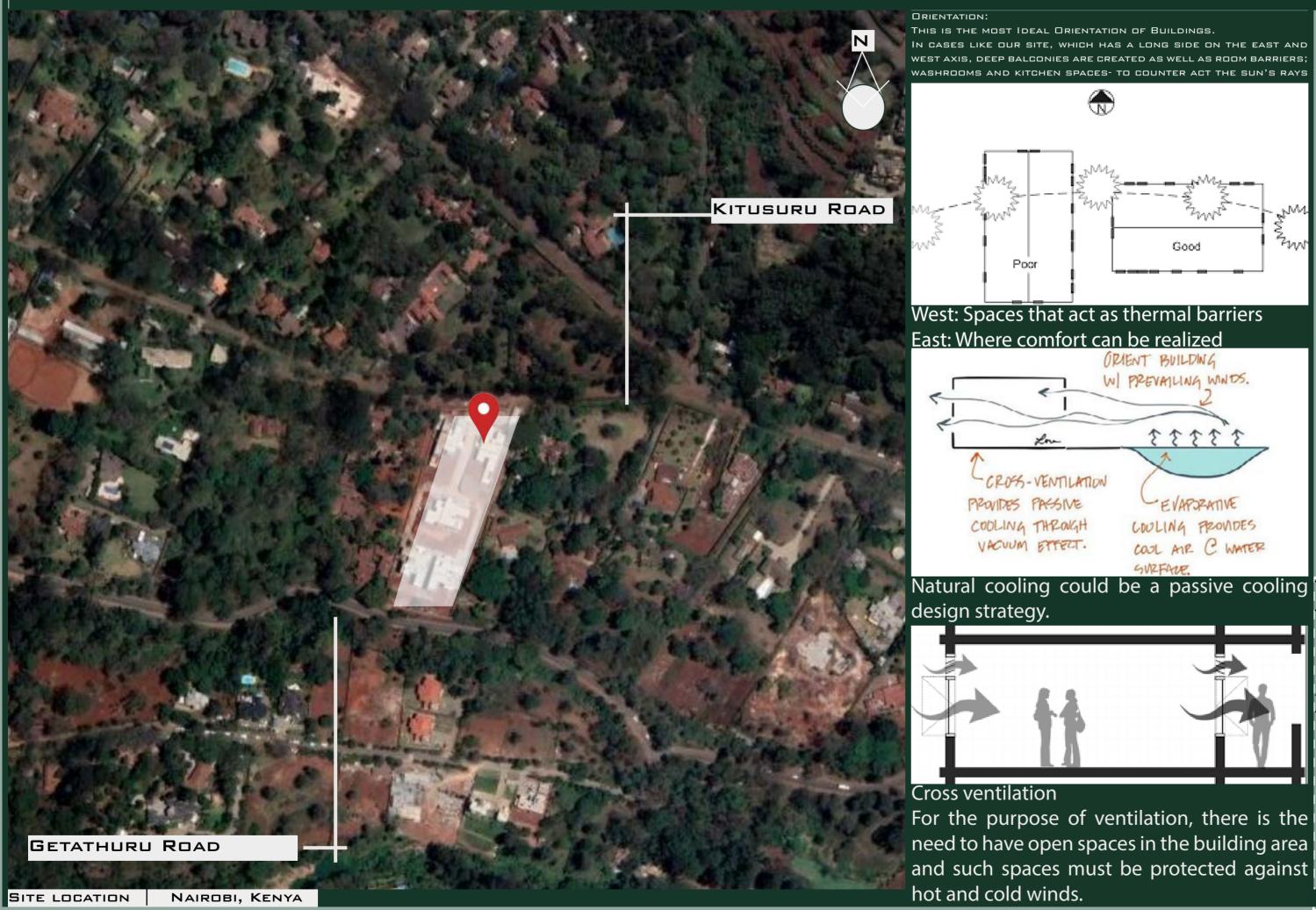




#### ITE ANALYSIS S

## NEIGHBOURHOOD AND SITE ACCESS

The Site location is convinient as it allows access from various points in the city: being 5.5km from Kenya's Capital, Nairobi, Its location makes it prime for this kind of development. There is one access point from General Mathenge Road. The site is close to social amenities such as schools, restaurants as well as places of worship-temples and churches.



### **ORIENTATION AND VIEWS**

Kitisuru is a green area with a lot of trees.

Most of the views in the area are created internally with inclusion of water features that will complement the widely grown and aged vegetation in the area.

### MATERIAL USE AND TECHNOLOGY

### NATURAL STONE

Stone is a natural product of the Earth, the original green building material.

It does not require other materials or resources to create it.

STEEL is very sustainable because once it is made, it can be used forever. Steel can be recycled an infinite amount of times and be used with no downgrading in quality.

### TOPOGRAPHY

Natural cooling could be a passive cooling The Site Generally slopes towards the south with a drop of 8 meters from the access of the last house to the boundary wall.

#### **RESPONSE:**

A concrete crib wall can be implemented in the design to ensure that we can retain the backfilled soil in the area. UPPER GROUND LEVEL

8 METERS

#### ONCEPT AND OUTLINE DESIGN С



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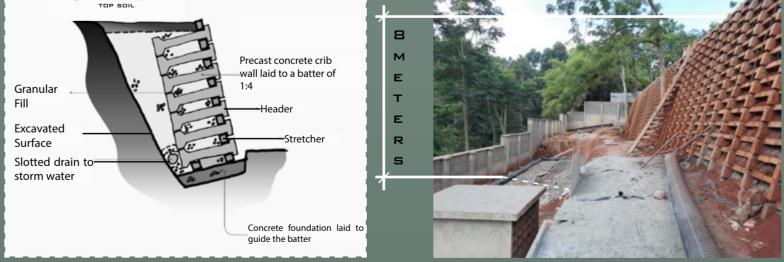
#### DESIGN PROGRESS

TIMELINE: FEBRUARY 2021 -ONGOING

FORTUNE GREEN



Crib walls are formed from interlocking precast units that are built up to form a series of hollow boxes. The boxes are filled with selected granular material to form a retaining wall. The individual units are generally small enough to be installed manually on site.



The individual units are generally small enough to be installed manually on site. They are parallel to and at right angles to the line of the wall. For this particular Site, our crib wall is about 4 metres deep and has two sections which have a total height of 8 metres from the actual ground level.

#### FORTUNE GREEN



#### Modern Architecture,

In the leafy suburbs of Nairobi, Kenya's Capital, a design that encompasses Modern Architecture - Architecture designed and built within the social, artistic, and cultural attitude known as Modernism.

We bring out the simplicity of the basic elements of architecture in design; Point, Line, Plane, and Volume.

#### Design Response

### The Architectural Boxy Nature of the masterpiece with the connection to the outside environment Ensures the continuity of Vegetation to the house.

#### **STRUCTURE:**

The use of different materials and technology such as; Steel, Concrete Hollow blocks and Natural stone, Discontinues the monotony of constructed buildings in the locality by bringing diversity to the project.

### **TOPOGRAPHY**:

For the lower ground floor which is 8 metres below the Ground floor of the Last houses, We retained the ground level as is at first but due to the steepness of the slope, we resorted to fill the ground and retain it with concrete slabs without disrupting the vegetation at the site.



### CONCRETE



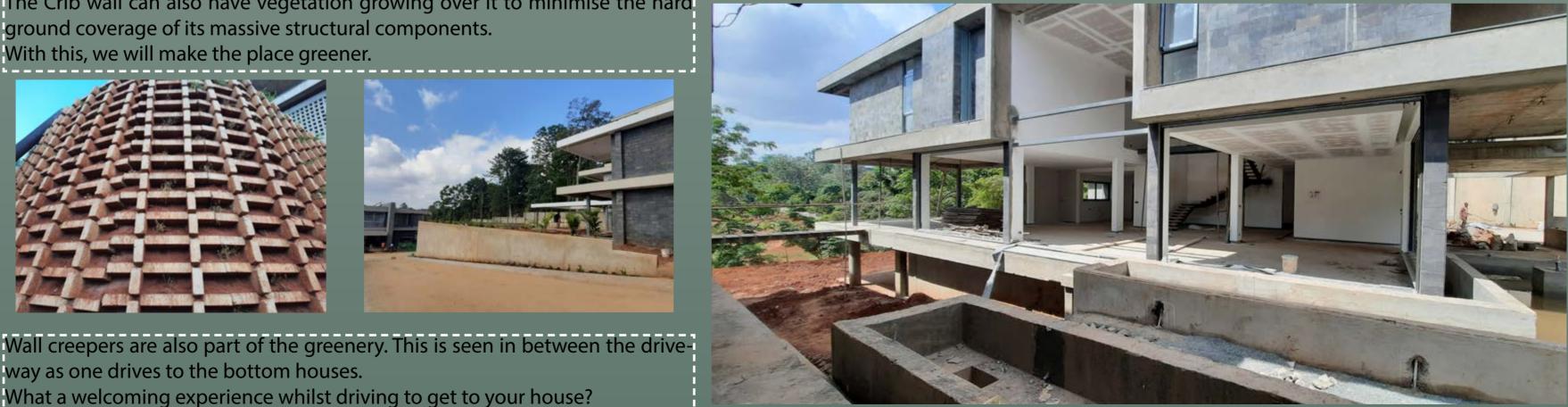


The structure of the house is able to accomodate vegetation





The Crib wall can also have vegetation growing over it to minimise the hard ground coverage of its massive structural components.



way as one drives to the bottom houses. What a welcoming experience whilst driving to get to your house?

**CRIB WALL** 

## COMPLETION STAGE



CREATED WITHIN SOCIAL AND CULTURAL ATTITUDE

# SERENE PARK

# BRIEF ANALYSIS

WITH THE INCREASED URBAN SPRAWL, THE DEVELOPMENT THAT SITS ON A 22-ACRE PARCEL

OF LAND WILL COMPRISE OF 41 FOUR-BEDROOM UNITS OF 3600 SQUARE FEET FOR

PHASE ONE AND 2,800 SQUARE FEET FOR PHASE TWO.

SERENE PARK OFFERS A GREAT OPPORTUNITY FOR HOMEOWNERS LOOKING FOR A SERENE,

LUXURIOUS, AND QUALITY PLACE TO LIVE WITH THEIR FAMILIES, WHICH IS PERFECT LOCATION FOR A HOME WITH A SHORT DRIVE FROM THE CITY'S BUSTLE.

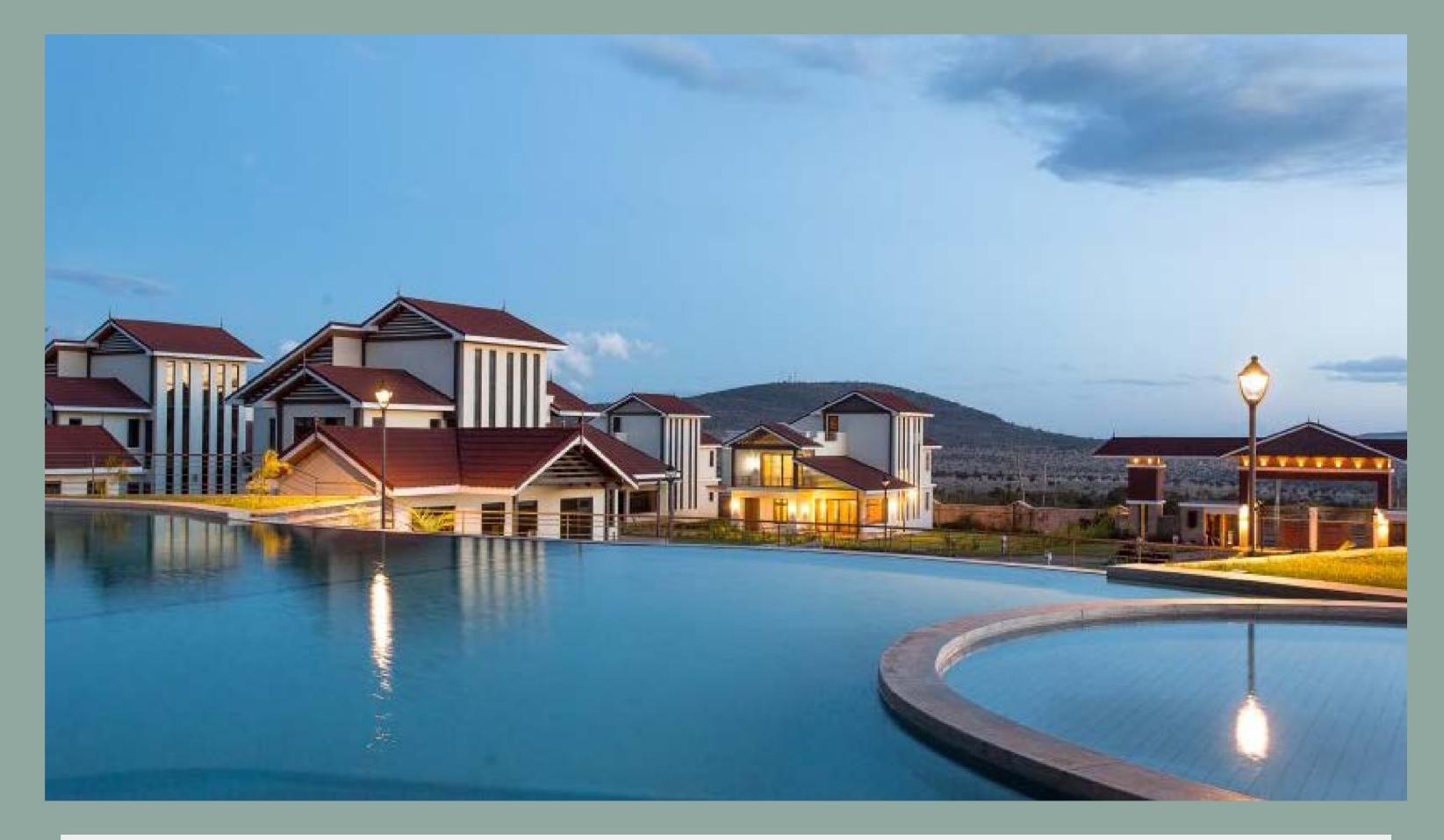
THE DEVELOPMENT COMPRISES OF AN EXCLUSIVE CLUBHOUSE, A FULLY EQUIPPED GYM,

AN INFINITY POOL, VISITOR CAR PARKING, A BOREHOLE, COMMON AREA GENERATOR, WITH HEIGHTENED SECURITY FEATURES

SUCH AS A PERIMETER WALL,

24-HOUR SECURITY, AN ELECTRIC FENCE, AND CCTV SURVEILLANCE.

PHASE 01 AND PHASE 02 HAVE 68 Houses.



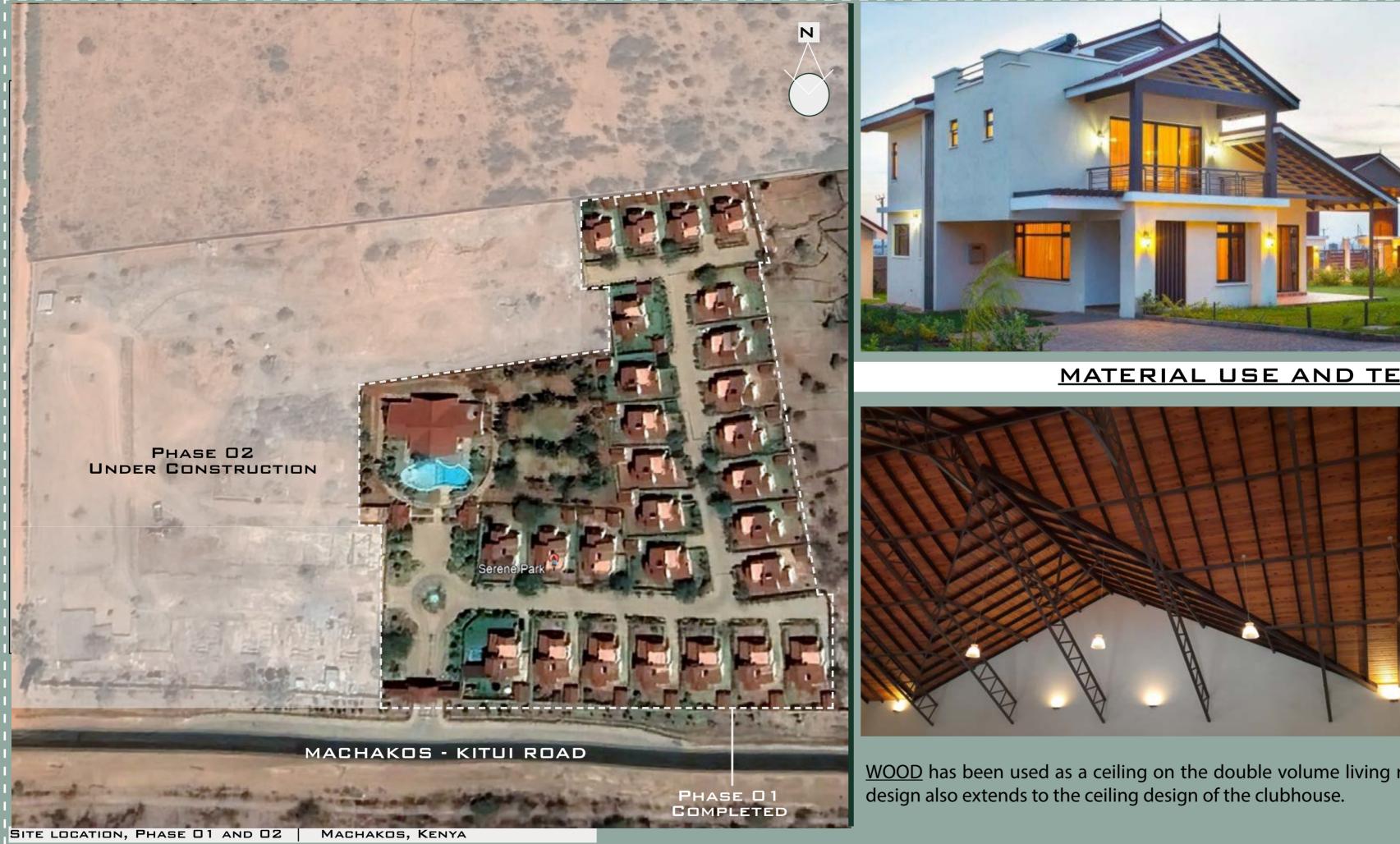








Serene Park is located in Machakos County, 500 meters from Mombasa road along Machakos-Kitui Road, 35 Minutes from CBD, 15 Kilometers from Athi and 10 Kilometers from Konza Techno City. Phase 01 hosts four bedroom villas with a dsq of 3600 square feet, A club house and a small home office.





#### **ORIENTATION:**

This is the most Ideal Orientation of Buildings. In cases like our site, which has a long side on the east and west axis, deep balconies are created as well as room barriers; washrooms and kitchen spaces- to counter act the sun's rays.

### MATERIAL USE AND TECHNOLOGY

#### NATURAL STONE

Stone is a natural product of the Earth, the original green building material. It does not require other materials or resources to create it. As you walk into the entry porch, a feature wall made of Mazeras is displayed.

STEEL is very sustainable because once it is made, it can be used forever. Steel can be recycled an

infinite amount of times and be used with no downgrading in quality. Part of the Front facade on the master bedroom balcony and the dining area has a frame structure. It has also been used as a screening wall.

WOOD has been used as a ceiling on the double volume living room bringing a soft touch to the room. This



CONTRUCTION PHOTO OF THE HOUSES



CONTRUCTION PHOTO OF THE SWIMMING POOL



Left: View of the Units that are close to the Site Entry. The Design showcases the maximum utilisation of levels and spaces. The building has three levels. The roof to the roof top exit and entry extends to the room below as well as the roof to the double ceiling volume that extends to the path leading to the rooms.



Above: This is a progress photo of the first house which was used as the show house. It shows the integration of concrete, masonry works, steel and wood which are combined to form the serene house.

View of the site from the clubhouse. The Club House hosts a gymnasium where the occupants of the houses could come work out and there after take a cold shower in the changing rooms. The habitants of this serene environment could also have a swim and cool their bodies after a long day's or week's work. It also houses a steam room and a sauna.



Sustainability: The swimming pool acts as a cooling water feature to the clubhouse itself as it creates a microclimate in the amenity through the process of passive cooling.

Trees seen on the above photo were retained since when the site construction started.







LOUNGE WITH THE DOUBLE VOLUME CEILING

SHOW HOUSE

AERIAL SHOT OF THE HOUSES AFTER COMPLETION IN 2017



REAR FACADE RENDER OF THE PROPOSED HOUSE



CONTRUCTION PHOTO OF THE SITE AFTER CLEARING



Left: A Render showing a design mimic from the phase one houses. The 4 bedroom houses with the dsq are if 2800 square feet, which is slightly smaller than the phase one houses.

There are a total of 41 Units in Phase two.



<u>Above</u>: This is a progress photo of the houses being constructed.

Above Left: Laying of conduit pipes before casting the concrete. Above Right: A construction worker placing a block of masonry during a site inspection to confirm the room size.

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RENDER

Progress photo with the background of phase 01 houses in August





CONSTRUCTION PHOTO TAKEN FROM THE SITE OFFICE, 2023 AUGUST

# AIC JERICHO

#### RELIGIOUS ARCHITECTURE

Religious architecture is the design and construction of buildings facilitating Religious activity.

AIC Jericho is a 3500 seater church hall with ancillary facilities designed to accomodate worshipers. The Church is Located In a residential set up; Jericho, Buruburu, Eastlands at large.

The Design came from an abstraction of the AIC (African Inland Church) Logo.

TIMELINE: 2004



The Church's Structural shell is made up of steel and concrete as seen in the above photos. The Steel gave us the freedom to achieve the large spans without support at the middle. Steel trusses Designed for the roof gave us the flexibility to achieve the large spans.



The above and below photos show the before and after photos of the process of installing the steel trusses with a crane.

A PLACE OF WORSHIP

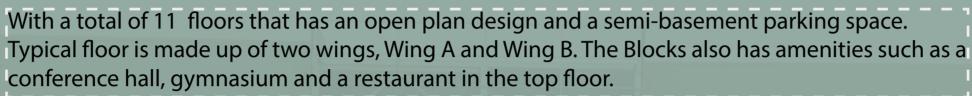
# JAMII BORA BANK HEADQUARTERS

**CORPERATE ARCHITECTURE** 

Corporate architecture refers to the use of architectural design to construct physical spaces buildings, workplaces; that can promote the corporate image of la corporation.

The Former Jamii Bora Bank, Now known as Kingdom Bank, has its Headquaters situated along the Argwings Kodhek Road in Kilimani Area.











05



**CREATED WITHIN SOCIAL AND CULTURAL ATTITUDE** 

# KYAKA HOTEL

TIMELINE: 2021 LOCATION: MACHAKOS TOWN, KENYA.

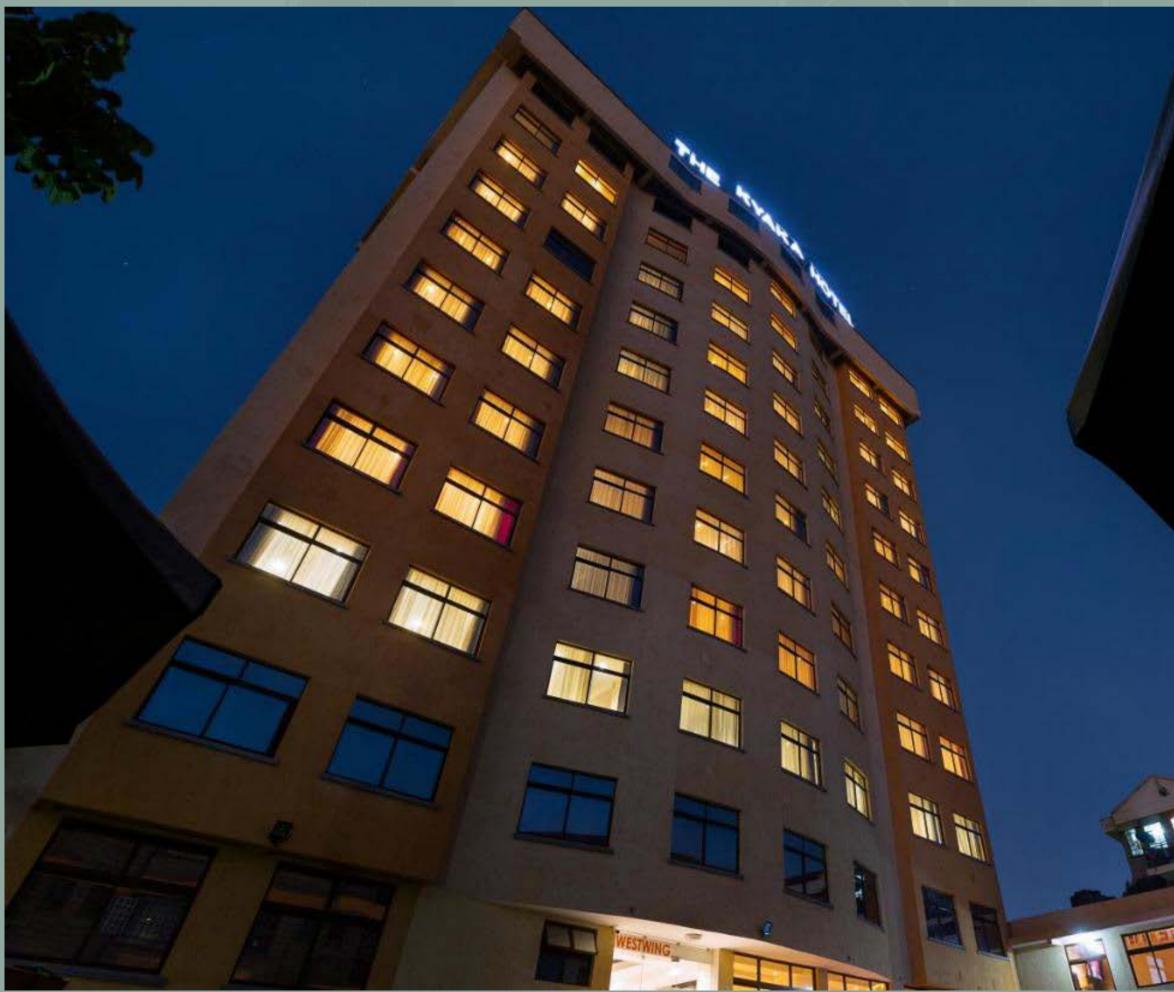
#### HOSPITALITY

Kyaka hotel offers the best of four star luxuries right from the moment you walk past the huge reception entrance.

Kyaka hotel is a hospitality gem that effortlessly mirrors the traditional and contemporary delights abundant in Machakos. Here at Kyaka, the design enables you to relish a unique private experience that is comfortable and chic.



apartments, 10 conference halls, 3 board rooms, 3 eclectic dining spaces and finally A Bar and a Lounge.



# 06



The project has two phases, the old block that houses a section of the furnished rooms and the new block that houses furnished rooms as well as other amenities.



# WALLSTREET BUSINESS PARK LOCATION: OLD MOMBASA ROAD, KENYA.

#### INDUSTRIAL ARCHITECTURE

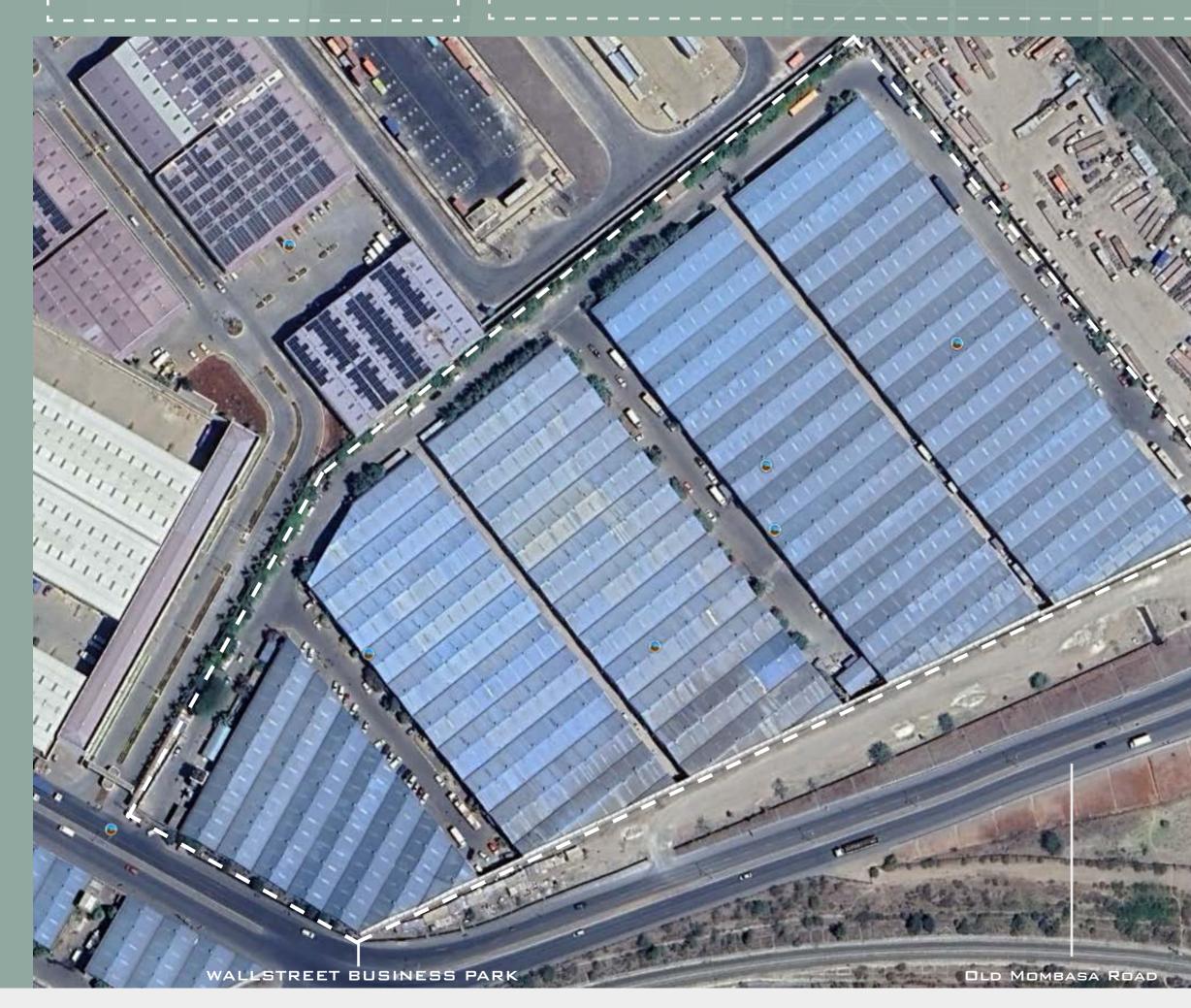
Industrial architecture is the design and construction of buildings facilitating The industrial Sector.

WallStreet Business park has a total of 66 (Sixty Six) Go Downs.

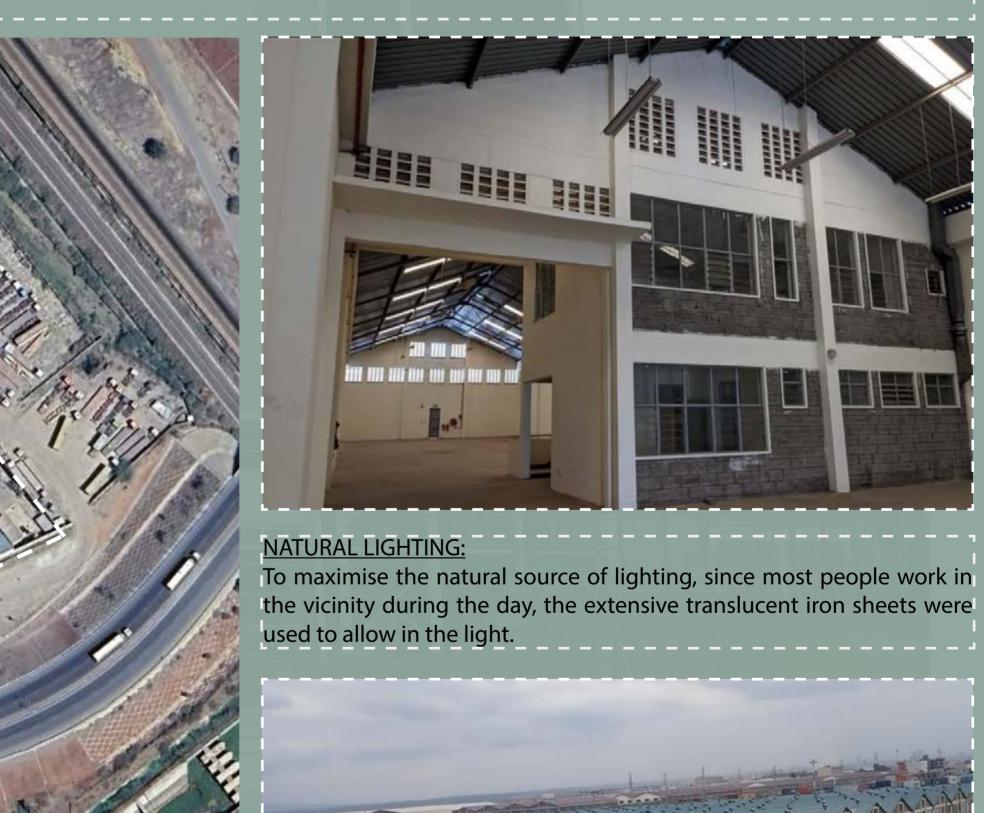
For a factory to be efficient, all the processes from drop-off to dispatch must be considered and thus Making this a Form follows Function, Kind of project.



Wallstreet Business Park is located along the Old Mombasa Road, next to the Inland Container Depot - An Inland Container Depot (ICD) is a container storage facility situated away from any major port. Shipping companies use ICDs to store and move shipping containers before and after transporting them to the seaport. This project in extention facilitates the process of strorage. It is also used for manufacturing and processing goods and products.







# PEMBE MILLERS

TIMELINE: 2017 LOCATION: LUNGA LUNGA ROAD, NAIROBI, KENYA.

#### INDUSTRIAL ARCHITECTURE

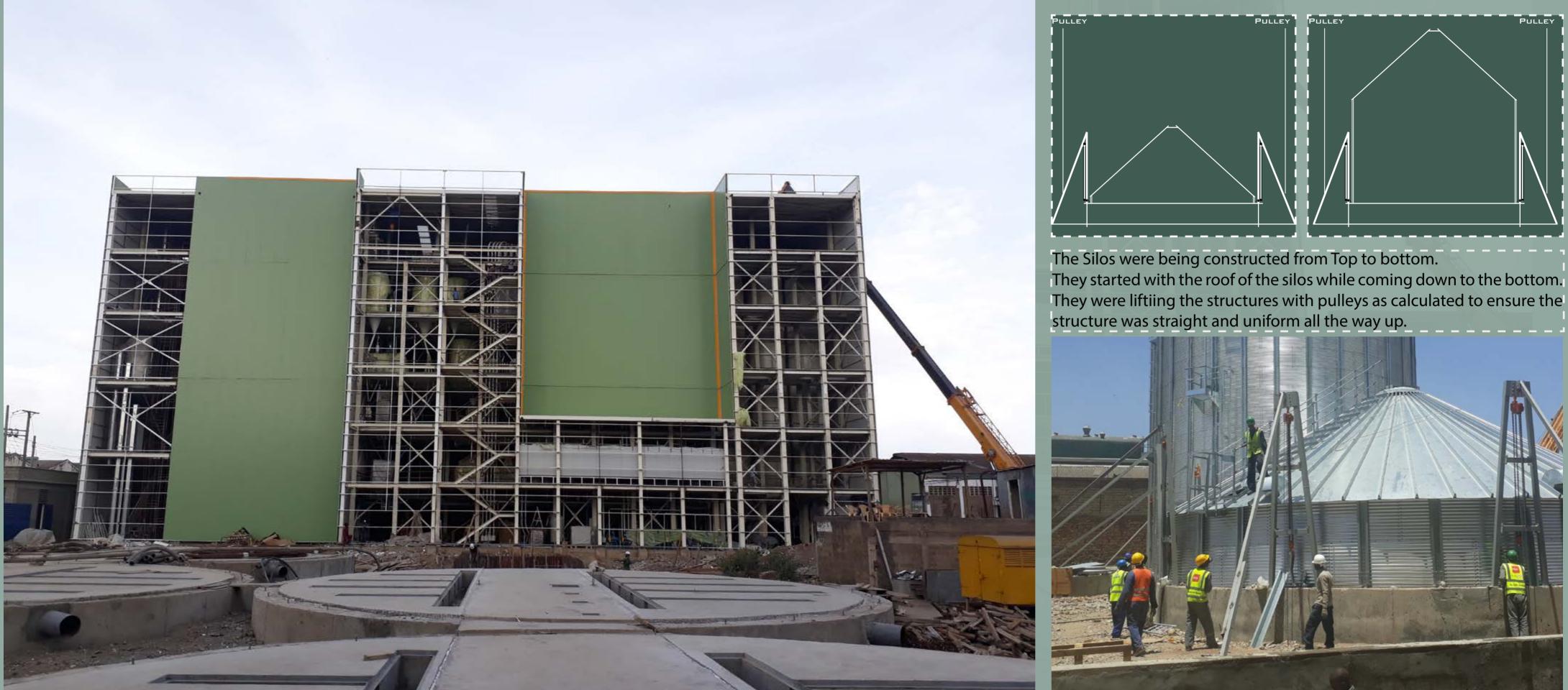
Industrial architecture is the design and construction of buildings facilitating The industrial Sector.

The architecture revolving around the industrial world uses a variety of building designs and styles to be able to occupy labor and distribution of goods.

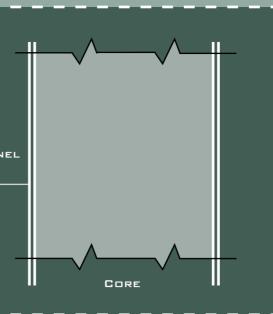
For this particular one, we were doing a storage facility for the processed flour before they are packaged and distributed to various Suppliers as well as retail shops.



Sandwich panels are a modular building material designed to cover buildings and structures. These panels consist of two layers that form the outer structure and ensure form, weather resistance and rigidity. They contain a core that provides thermal and acoustic insulation properties.









# **CLASSIC IRON MONGERS**

TIMELINE: 2018 - 2021 LOCATION: MOMBASA ROAD, ATHI RIVER, KENYA.

#### INDUSTRIAL ARCHITECTURE

Industrial architecture is the design and construction of buildings facilitating The industrial Sector.

For this particular one, We were required to do an office block as well as the factory for the processing, packaging and dispaching of goods.



With the industry developing new ideas especially in Factories, we find that Clients can be more involved in How things are made. One can do this by introducing a Showroom in the warehouse where People can display Samples as well as finished goods to their clients. This increases the Client-Manufacturer relationship with the transparency that comes to it.



















### NATURAL LIGHTING:

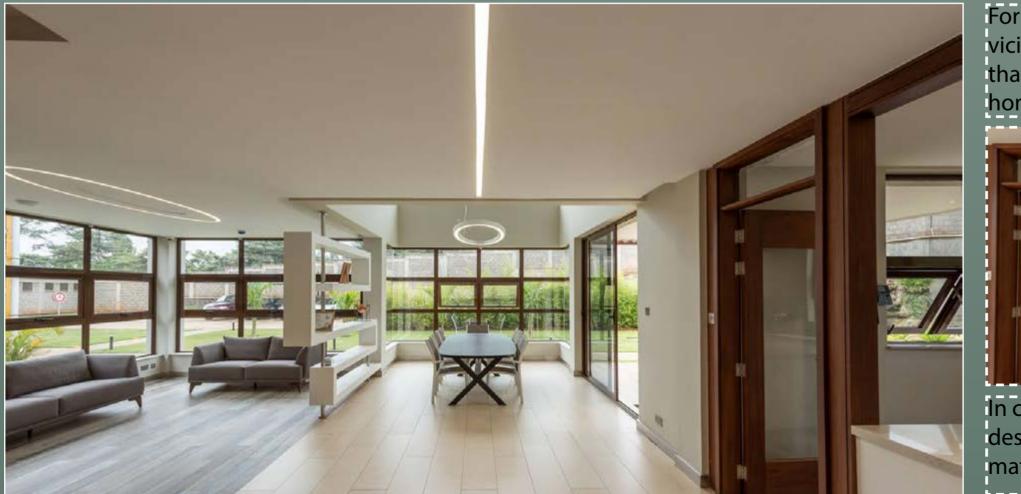
To maximise the natural source of lighting, since most people work in the vicinity during the day, the extensive translucent iron sheets were used to allow in the light.

This in turn reduces the cost of running of the factory, therefore making this a sustainable innitiative to the project.

#### CONINX INDUSTRIES TIMELINE: 2017 LOCATION: KIKUYU, NAIROBI, KENYA.



#### PROJECT DETAILS



For an efficient workflow of events, the Directors Idealy would be around the vicinity of the factory. Their Spaces should Be comfortable. It should be a space that will call you to work everyday. Make you feel like you are working from home.



In collaboration with Grasp Design, who we extended a hand to in the interior design, we managed to get this wonderful space of work. Use of different materials in the spaces gives the diversity of use make the area.

Coninx deal with the production of Drainage pipes, gutters as well as hose pipes. They were looking to expand from their Industrial area Factory. The location, Kikuyu, was a good place since its somewhere where there is no traffic, and they had a road, that was undergoing construction by the Government of the time.

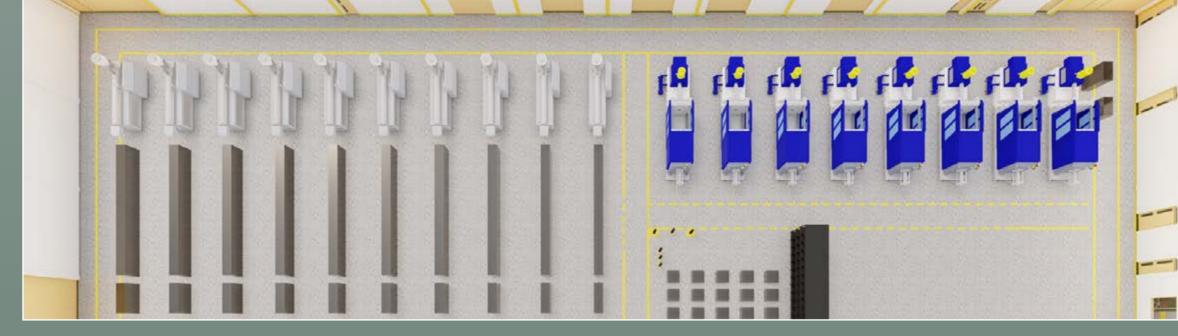


GARDEN: Extending from the office block is a garden that also has the water feature extending to the verandah which is also used as an outdoor dining space. This gives a calming effect to the Inhabitants of the space ensuring a refreshing and Relaxing work experience

OFFICE BLOCK











weight.

FACTORY

