



# LANDSCAPE ARCHITECTURE PORTFOLIO

SELECTED WORKS 2016 - 2023

**ROY NASSIF**



## Professional

### AL RAS AL ABYAD

Riyadh, Saudi Arabia

03

### THE OBEROI BEACH RESORT

Al Zorah Ajman, UAE

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### G20 BUILDING RETREAT CENTER

Diriyah, Saudi Arabia

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### D&C Offices in RCU

AlUla, Saudi Arabia

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## Academic

### THE MIDDLE GROUND

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### THE HISTORICAL TIES

Final year project

32

# AL RAS AL ABYAD

The Scope of Work of Al Ra's Al Abyad Master Plan is to propose a series of hierarchical character zones of open spaces with varying functions and purposes. This is essential for creating a network of open spaces that operate to provide a variety of activities while promoting a walkable environment and extending into the sea life activities. Al Ra's Al Abyad was a project that provides a touristic attraction for the region with its wide variety of activities and functions tending to all users needs.

## Accessibility

### Vehicle Circulation



## Accessibility

### Cyclists Circulation



## Accessibility

### Pedestrian Circulation



## Accessibility

### Horse Circulation



## Accessibility

### Dynamic Circulation



## Landscape and Vegetation

### Green Spine

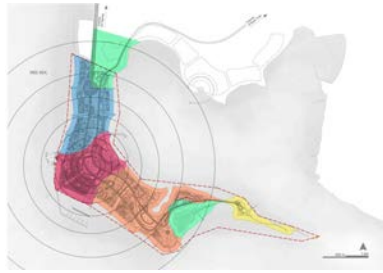


# Landscape Master Plan

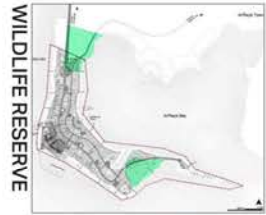
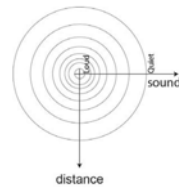


# Landscape Programs

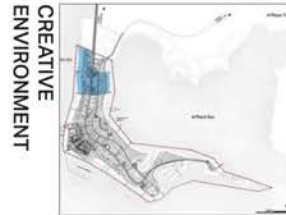
The landscape Master Plan has looked to develop a series of applicable activates based on the regional context, listed character areas and suitable functions. This will create a landscape that will capture the interest of visitors of all ages and activate open spaces.



Sound Diagram



- Natural Trail
- Camping
- Desert Mangrove
- Angling
- Horse Trail
- Picnic Area



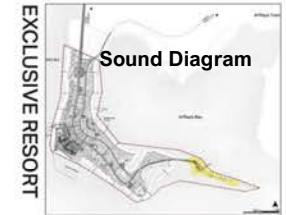
- Edutainment
- Skate Boarding
- Water Sports
- Sand Dune Bugging
- Beach
- Viewing Platform



- Playscapes
- Art Exhibition
- Plaza
- Amphitheater
- Elevated Viewing Platforms
- Food Beverage



- Eco-Museum
- Bird Watching Center
- Scuba Diving
- Sensory Gardens
- Dining by the Sea
- Natural Trails



- Private Beach
- Dining by the Sea
- Zen Gardens
- Outdoor Spa
- Board Walk
- Water Sports

# Landscape Typologies

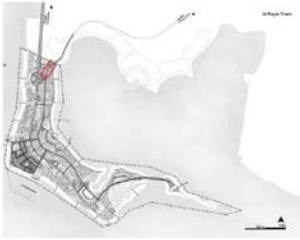
The Al Ra's Al Abyad Master Plan introduces a range of open spaces with different functions and purposes. This is crucial for establishing a network of open areas that cater to various activities and contribute to a walkable environment. The project aims to offer recreational opportunities for residents and become a globally recognized tourist destination that meets international standards. The following typologies of open spaces are proposed within the Al Ra's Al Abyad Master Plan, each providing a diverse blend of activities that enhance the project's fluidity and appeal.



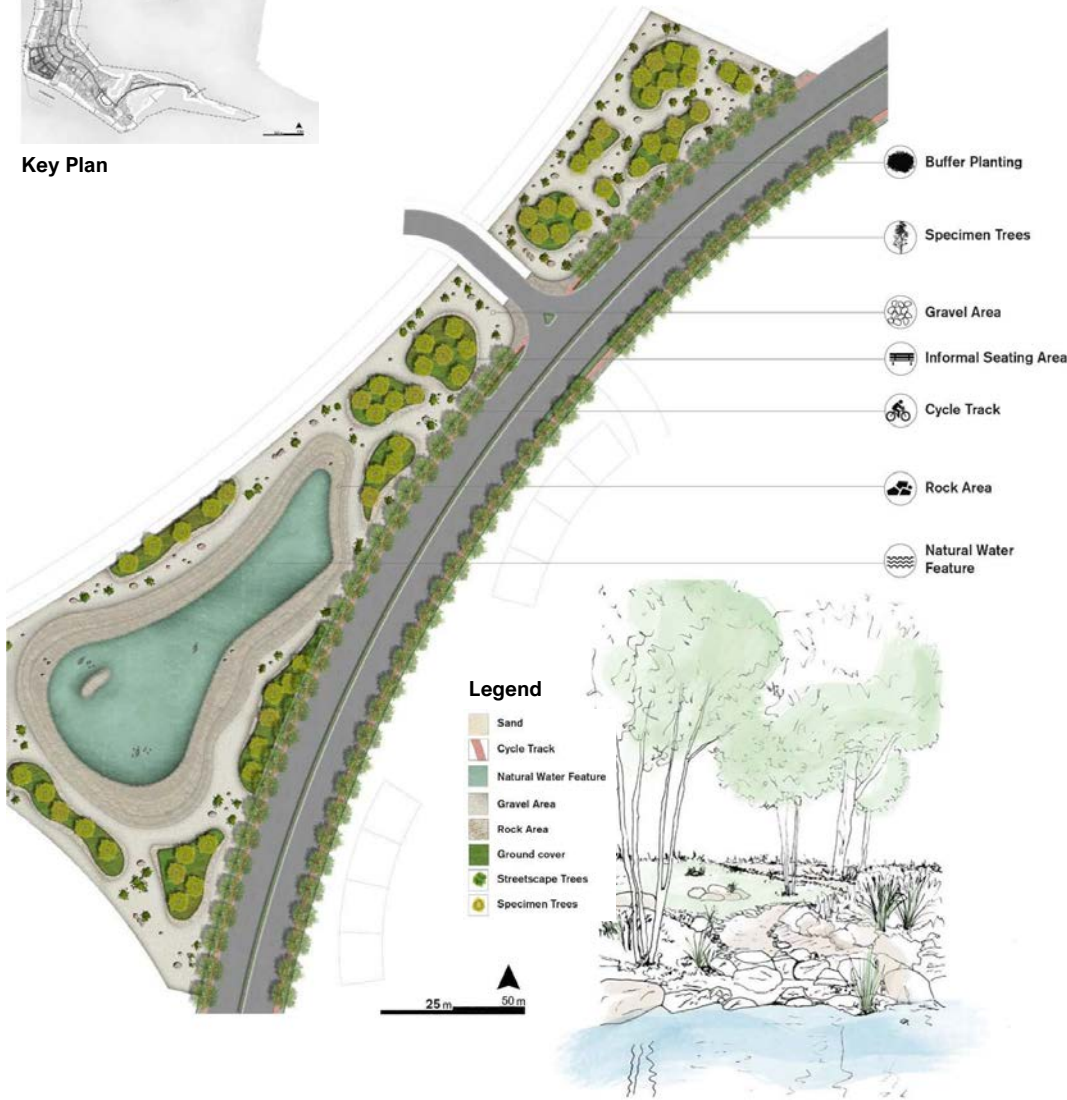
BUFFER LANDSCAPES		NATURAL LANDSCAPES		CENTRAL PLAZA		THEMED PARKS		GREEN BELT	POCKET PARK
Eco-Trails	Resting Spots	Natural Water Feature	Eco-Trails	Shaded Seating	Plaza and Squares	Art Corner	Educational Recreation	Shaded Walkways	Shaded Seating
Promote Biodiversity	Eco-Park	Native Planting	Camping Sites	Gardens	Entertainment Areas	Market	Playscapes	Bike Trail	Gathering Space
Native Plantation	Screen Plantation	Mangrove Plantation	Natural Recreation	Commercial Use	Planting Design	Shaded Seating	Extreme Sports	Connectivity	Gardens

# Proposed Landscape Open Space Typologies

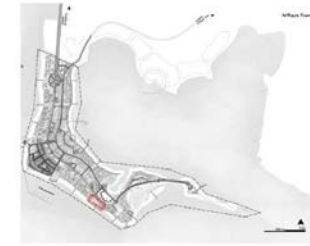
## Wildlife Reserve - North



Key Plan



## Wildlife Reserve - South



Key Plan

### Legend

- Sand
- Cycle Track
- Natural Water Feature
- Gravel Area
- Rock Area
- Wooden Deck
- Ground cover
- Streetscape Trees
- Specimen Trees
- Ornamental Tree
- Palm








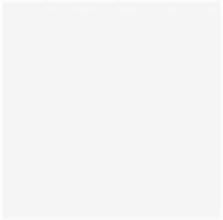












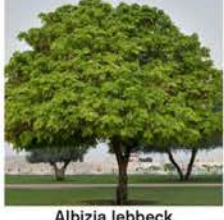









# Plant Selection

The site is at a coastal region by the Red Sea, and the plants to be used are recommended to tolerate a very high salt content of soil, irrigation water, or win, as well as a very high wind effect that varies from still to windy depending on their locations. Figure below shows the different types of plants that can sustain wind tolerances at four different levels.

## WIND TOLERANCE

## COLOR PALETTE

## SOFTSCAPE PALETTE

<p>STILL</p>  		 <p>Azadirachta indica</p>			
<p>NORMAL</p>  		 <p>Acacia farnesiana</p>	 <p>Acacia gerrardii var najdensis</p>	 <p>Olea europaea</p>	 <p>Sesbania sesban</p>
<p>BREEZY</p>  		 <p>Acacia saligna</p>	 <p>Albizia lebbek</p>	 <p>Ziziphus jujuba</p>	 <p>Parkinsonia aculeata</p>
<p>WINDY</p>  		 <p>Acacia saligna</p>	 <p>Thespesia populnea</p>	 <p>Conocarpus erectus</p>	 <p>Casuarina equisetifolia</p>






























# Hardscape Selection

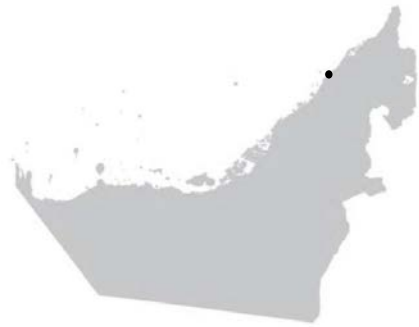
The proposed selection of the hardscape materials follow the authority guidelines on Hardscaping and Surface Treatment, balancing the design between the different typologies.

Figure below shows the different types of materials to be used per landscape typology, giving the project a distinct character and design.

## LANDSCAPE TYPOLOGIES

## HARDSCAPE PALETTE

	Streetscape	 Limestone	 Interlock Paving	 Bound Gravel
	Buffer Area	 Self Binding Gravel	 Clay Pavers	 Gravel and Clay Paver band
	Natural Habitat	 Self Binding Gravel	 Clay Pavers	 Gravel and Clay Paver band
	Urban District	 Limestone	 Clay Pavers	 Granite Cobblestones
	Themed Parks	 Limestone	 Clay Pavers	 Granite Cobblestones
	Green Belt	 Bound Gravel	 Clay Pavers	 Granite Cobblestones
	Pocket Parks	 Limestone	 Bound Gravel	 Gravel and Limestone Paver bands

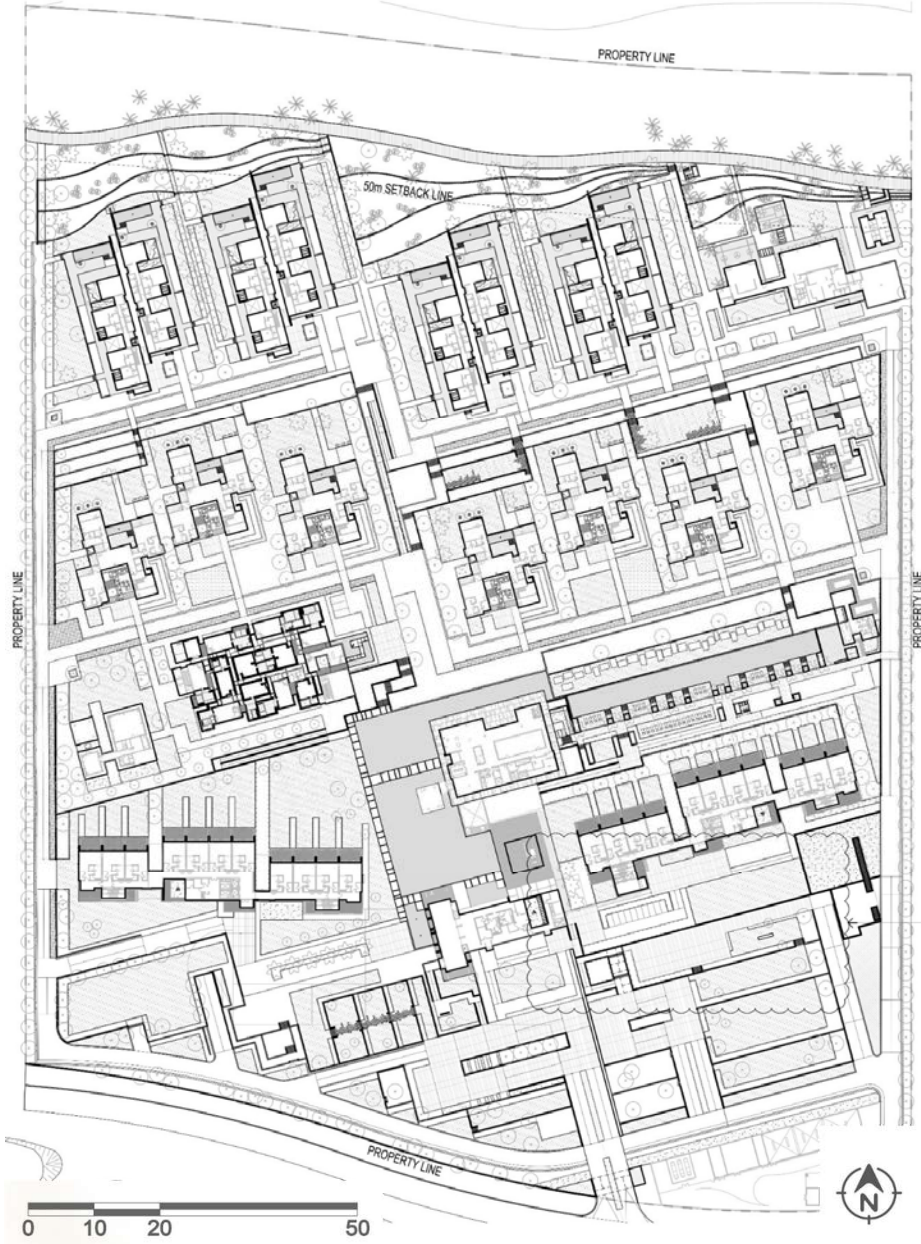


## The Oberoi Beach Resort

In our design for the landscape of the prestigious Oberoi Resort at al Zorah, Ajman, we aimed to seamlessly blend the resort with the existing natural beauty of its location. Nestled in a vibrant mangrove reserve, our design strategy focused on respecting and enhancing the uniqueness of this ecological wonder. We utilized a wide variety of native plant species to promote local biodiversity, and integrated sustainable water features that echo the natural coastal setting of the resort. The meticulous planning of pathways and open spaces was carried out to ensure panoramic views, while safeguarding the privacy of individual villas. Through the incorporation of locally sourced stone materials and sustainable lighting, we created a functional, yet serene nocturnal landscape that harmoniously resonates with the environmental essence of La Zorah, Ajman.

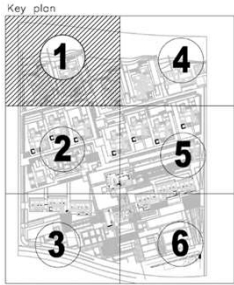


# Landscape Master Plan / Execution



# Softscape Plan



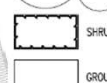
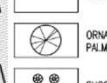
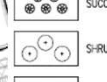






In the soft landscape plan, we carefully selected and integrated a variety of plants that thrive in the local climate. Our focus was on promoting biodiversity, enhancing visual appeal, and providing a tranquil environment for guests. We implemented sustainable irrigation methods and incorporated comfortable seating areas to create a memorable outdoor experience that harmonizes with the resort's design.



MATCHLINE SHEET L60-00-04



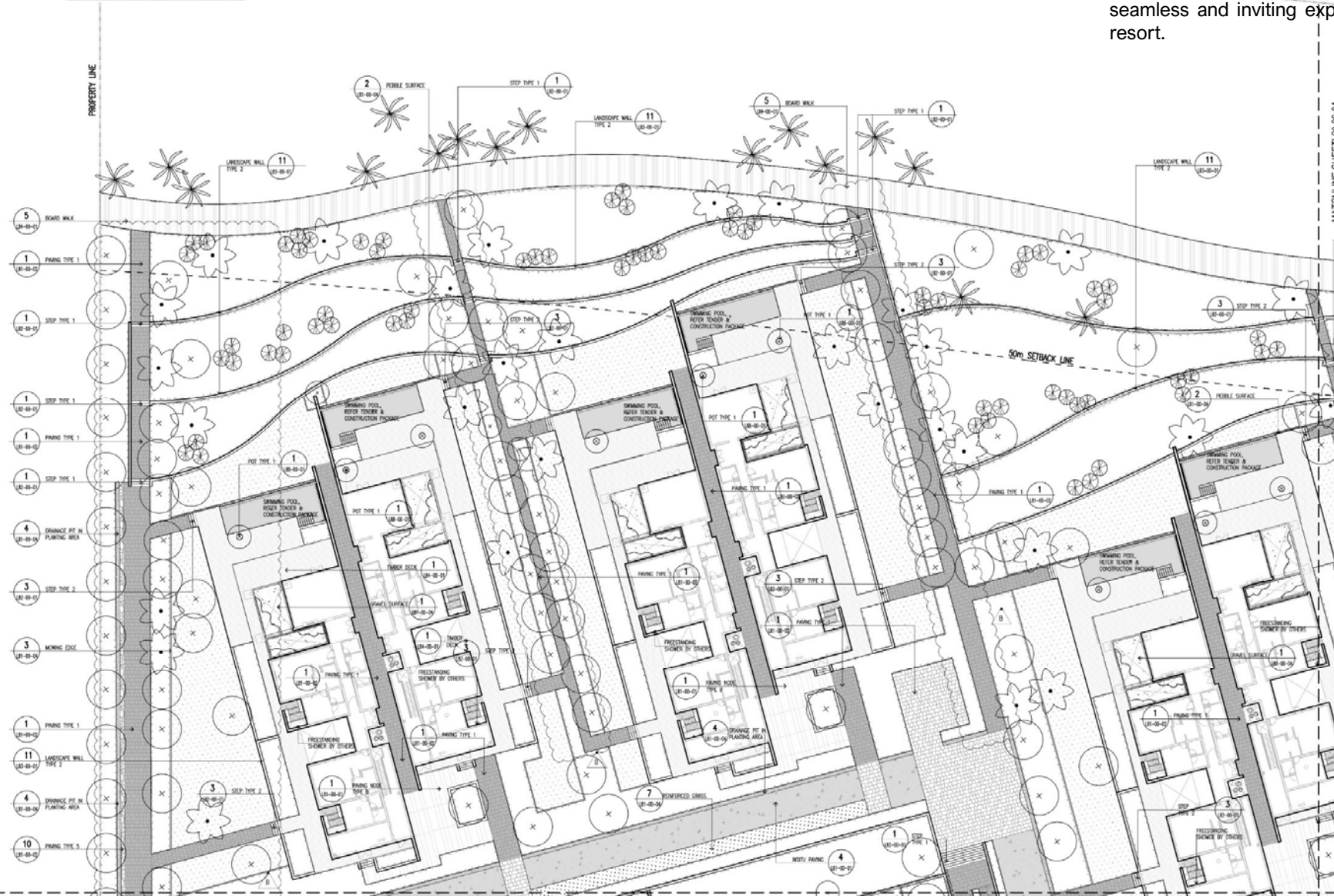
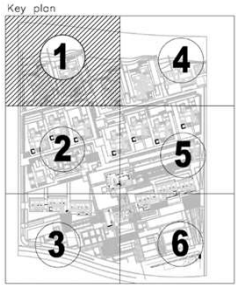
Legend:

-  PALM
-  TREES
-  SHRUB GROUP PLANTING
-  GROUND COVERS
-  ORNAMENTAL PALMS
-  SUCCULENTS
-  SHRUBS
-  CLIMBERS
-  LAWN
-  REINFORCED GRASS
-  GRAVEL

MATCHLINE SHEET L60-00-02

# Hardscape Plan

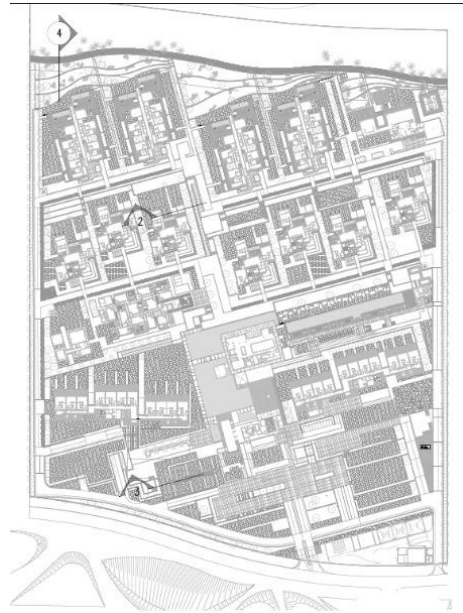
In the hardscape plan we designed functional and visually appealing outdoor spaces. We incorporated pathways, patios, and seating areas using durable materials that harmonize with the natural surroundings. Architectural features and lighting fixtures were strategically placed to enhance the overall ambiance and safety. The hardscape elements were thoughtfully designed to create a seamless and inviting experience for guests at the resort.



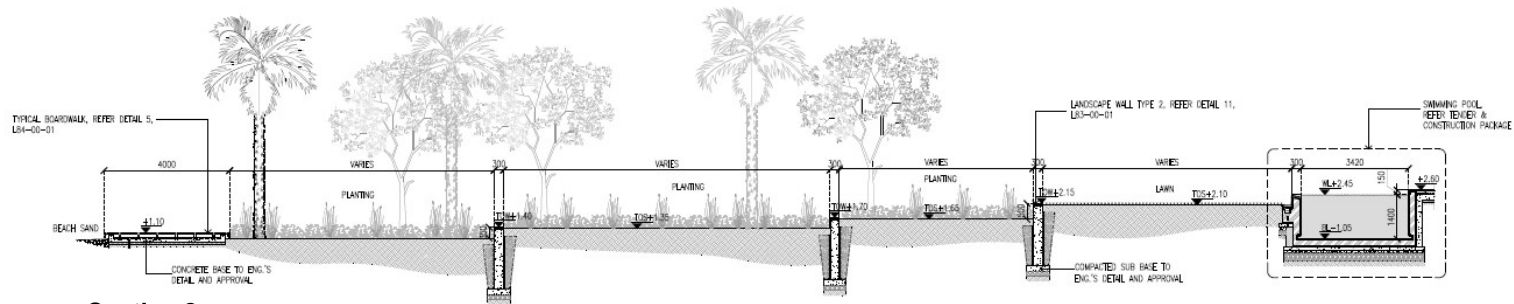
Legend:

	PALMS
	TREES
	PLANTING
	WATER
	TIMBER DECK
	INSITU PAVING
	PAVING TYPE 1 (PEDEST)
	PAVING TYPE 1 (VEHIC)
	PAVING TYPE 2
	PAVING TYPE 3
	PAVING NODE TYPE A
	PAVING NODE TYPE B
	PAVING TYPE 4
	PAVING TYPE 5
	DRAINAGE PIT
	DETAIL NO.
	ELEMENT
	SHEET NO.

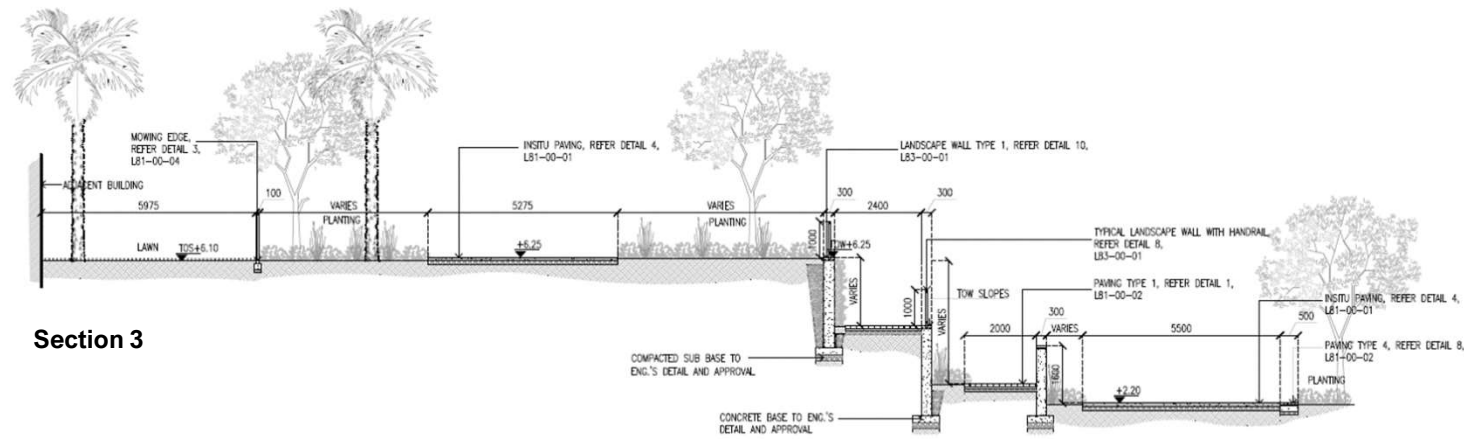
# Sections



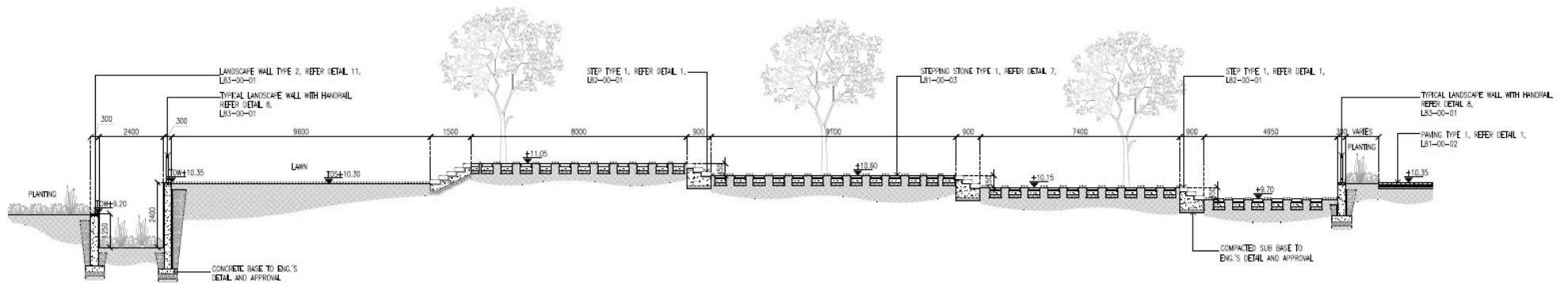
Key Plan



Section 2

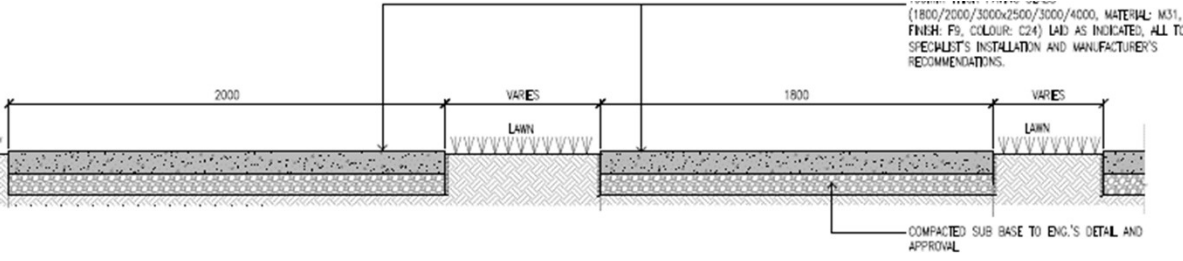
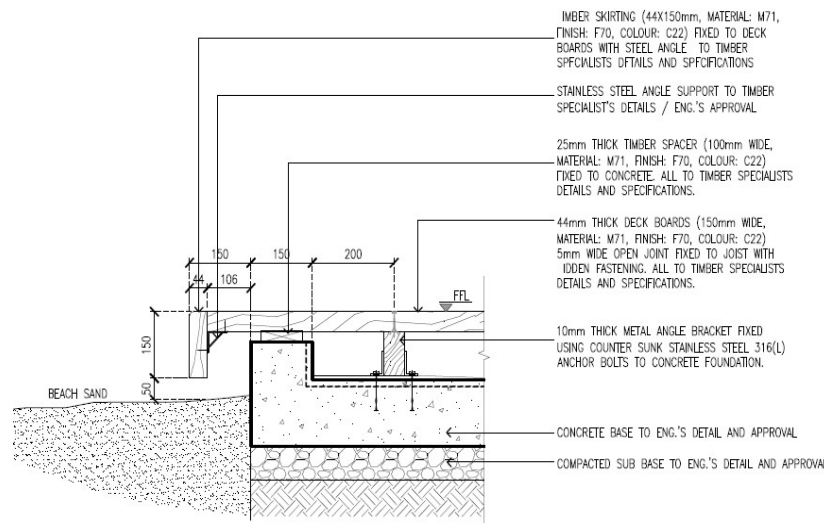
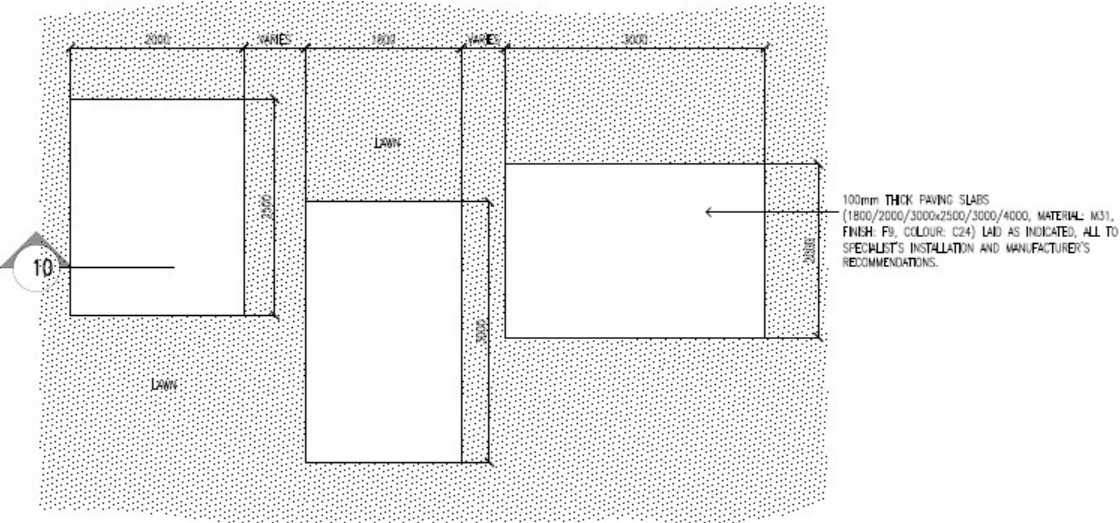
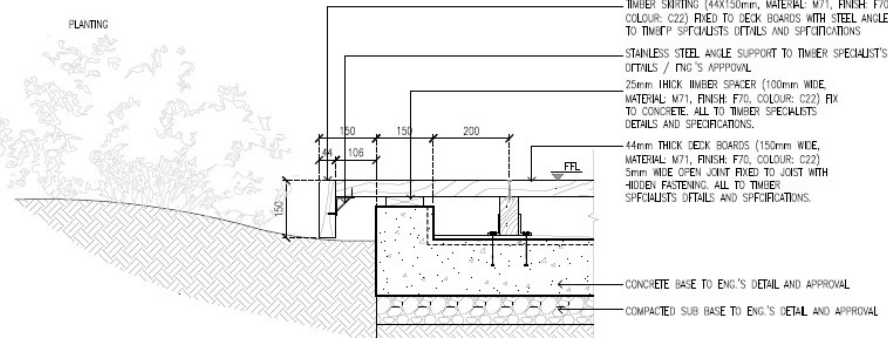
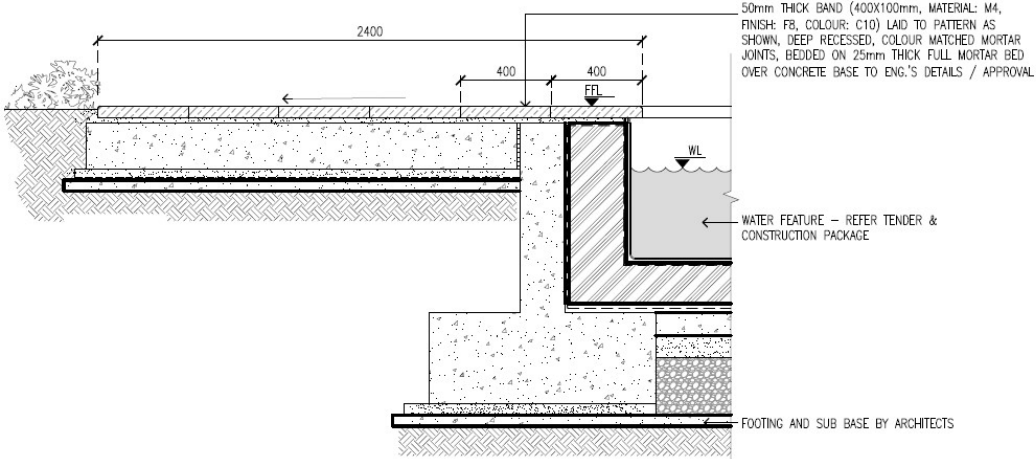
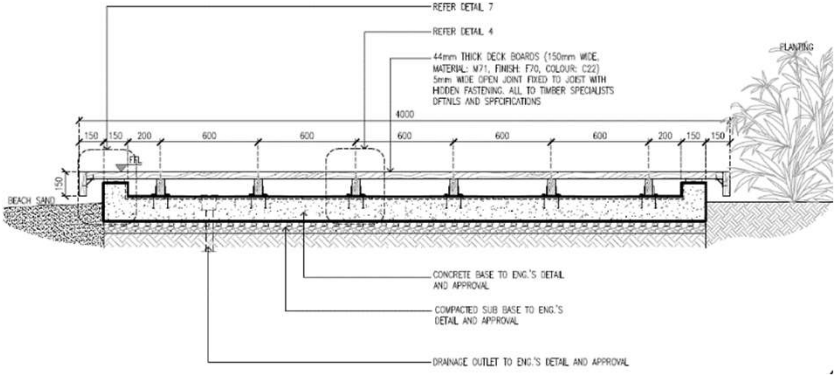


Section 3

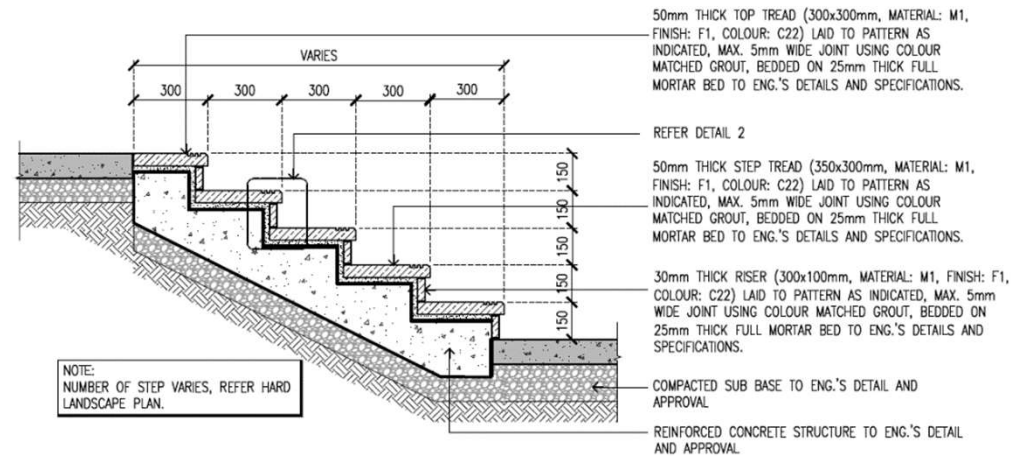
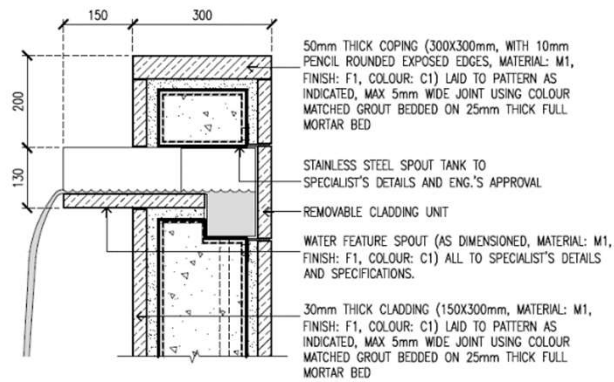
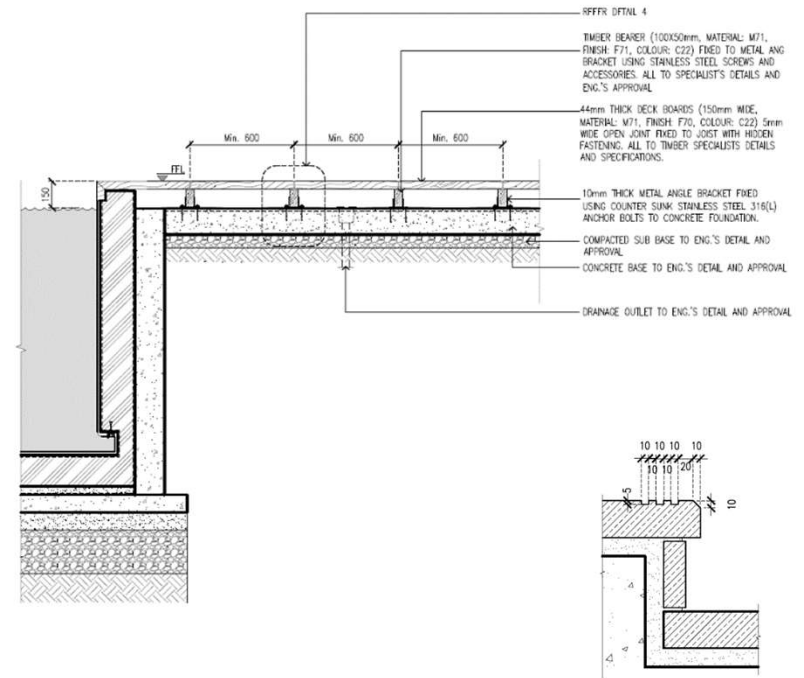
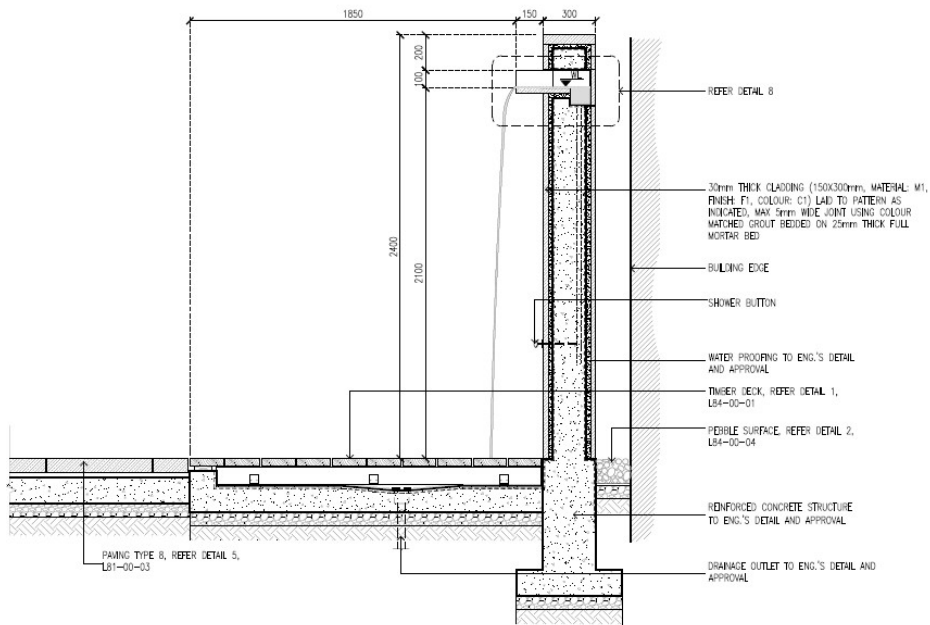


Section 4

# Hardscape Details Selection



# Hardscape Details Selection

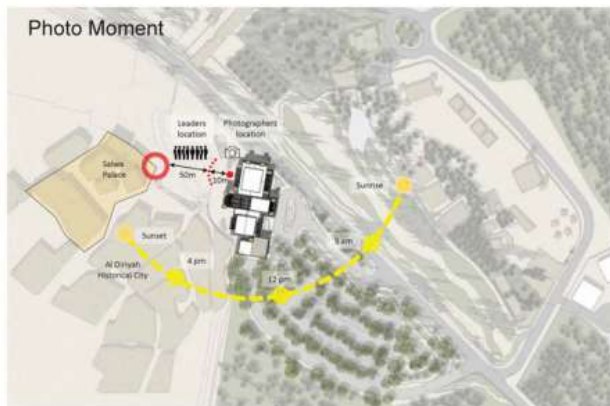
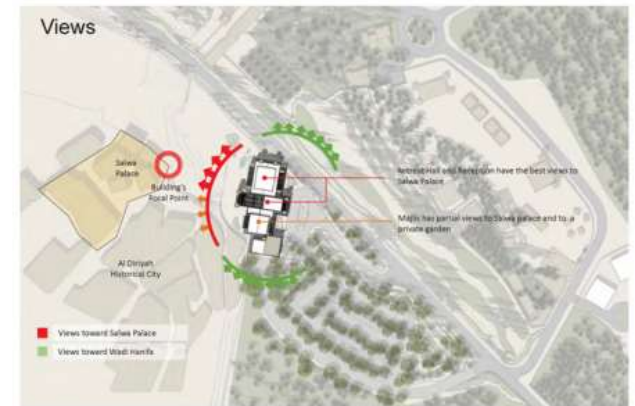
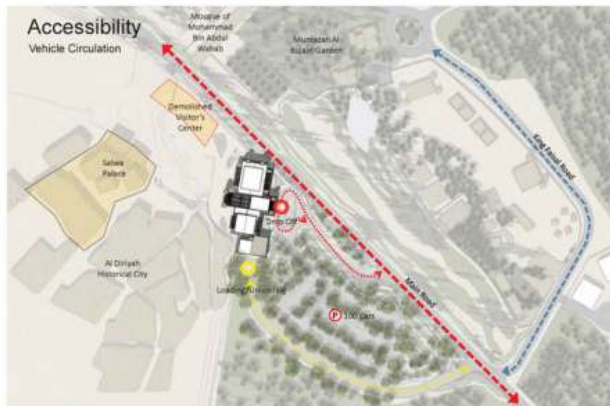






# G20 Building Retreat Center

Known for its traditional mud-brick architecture and archaeological sites, Diriyah is recognized as a UNESCO world heritage site and a symbol of Saudi Arabia's history and rich cultural heritage. Inspired by the site's traditional and natural elements, the landscape design around the Retreat Center emphasized on the establishment of a lush green canopy of date palms along with a specific palette of native and drought-tolerant species which contributed to significant enhancement of the natural setting and ensured irrigation demand is reduced. The design of the landscape maintained the site's identity while introduced new design features such as the local dry stone retaining walls and mounds through a sustainable design approach that merges with Diriyah's urban fabric.



## Site Features Interpretation

The hard rocky plateau nature of the site allows for a design-based on the integration of the existing leveled landscape with the concept idea.

The aim is to blend the natural landform with the envisioned design, carving into and building up from the natural limestone, and resulting in man-made organic appearing, flowing platforms.

The integration of xeriscaping vegetation complements the design and adds a landscape layer to the earth berms built up from the existing rubble limestone.



# Plant Selection



TYPE : TREE  
NAME : ALBIZIA LEBBECK  
CODE : ALB LEB



TYPE : TREE  
NAME : CITRUS AURANTIIFOLIA  
CODE : CIT AUR



TYPE : TREE  
NAME : DALBERGIA SISSOO  
CODE : DAL SIS



TYPE : TREE  
NAME : OLEA EUROPAEA  
CODE : OLE EUR



TYPE : TREE  
NAME : PARKINSONIA ACULEATA  
CODE : PAR ACU



TYPE : TREE  
NAME : THEVETIA PERUVIANA  
CODE : THE PER



TYPE : TREE  
NAME : ZIZIPHUS SPINA-CHRISTI  
CODE : ZIZ SPI



TYPE : PALM  
NAME : PHOENIX CANARIENSIS  
CODE : PHO CAN



TYPE : PALM  
NAME : PHOENIX DACTYLIFERA  
CODE : PHO DAC



TYPE : SPECIMEN SHRUB  
NAME : CHAMAEROPS HUMILIS  
CODE : CHA HUM



TYPE : SHRUB  
NAME : ATRIPLEX HALIMUS  
CODE : ATR HAL



TYPE : SHRUB  
NAME : CARISSA MACROCARPA  
CODE : CAR MAC



TYPE : SHRUB  
NAME : CESTRUM NOCTURNUM  
CODE : CES NOC



TYPE : SHRUB  
NAME : CLERODENDRUM INERME  
SYMBOL : CLE INE



TYPE : SHRUB  
NAME : LAVANDULA ANGUSTIFOLIA  
CODE : LAV ANG



TYPE : SHRUB  
NAME : ROSMARINUS OFFICINALIS  
CODE : ROS OFF



TYPE : SHRUB  
NAME : SANTOLINA ROSMARINIFOLIA  
CODE : SAN ROS



TYPE : GROUNDCOVER  
NAME : CELOSIA PLUMOSA  
CODE : CEL PLU



TYPE : GRASS  
NAME : CORTADERIA SELLOANA  
CODE : COR SEL



TYPE : GRASS  
NAME : CYMBOPOGON CITRATUS  
CODE : CYM CIT



TYPE : GRASS  
NAME : PENNISETUM SETACEUM  
CODE : PEN SET



TYPE : SUCCULENT  
NAME : AGAVE AMERICANA  
CODE : AGA AME



TYPE : SUCCULENT  
NAME : AGAVE ANGUSTIFOLIA  
CODE : AGA ANG



TYPE : SUCCULENT  
NAME : LAMPRANTHUS GLAUCUS  
CODE : LAM GLA



TYPE : SUCCULENT  
NAME : SESUVIUM PORTULACAESTRUM  
CODE : SES POR



TYPE : SUCCULENT  
NAME : YUCCA ALOIFOLIA  
CODE : YUC ALO



TYPE : CLIMBER  
NAME : TECOMARIA CAPENSIS  
CODE : TEC CAP

# Hardscape Materials Selection



TYPE : PAVEMENT  
NAME : LIMESTONE  
COLOR : BEIGE



TYPE : PAVEMENT  
NAME : TRAVERTINE  
COLOR : BEIGE



TYPE : PAVEMENT  
NAME : TRAVERTINE  
COLOR : SILVER



TYPE : PAVEMENT  
NAME : FLAGSTONE  
COLOR : BEIGE



TYPE : PAVEMENT  
NAME : COBBLESTONE  
COLOR : DARK GREY



TYPE : PAVEMENT  
NAME : INTERLOCK CONCRETE PAVERS  
COLOR : DARK GREY



TYPE : PEBBLES  
NAME : CRUSHED LIMESTONE AGGREGATE  
COLOR : WHITE



TYPE : PEBBLES  
NAME : CRUSHED LIMESTONE AGGREGATE  
COLOR : BEIGE



TYPE : PEBBLES  
NAME : RIVER ROCKS  
COLOR : MIXED COLORS



TYPE : SAND  
NAME : FINE SAND  
COLOR : YELLOW



TYPE : WALL  
NAME : NATURAL SANDSTONE  
CRACKENBACK  
COLOR : BEIGE



TYPE : WALL  
NAME : NATURAL SANDSTONE  
COLOR : BEIGE



TYPE : ROCK  
NAME : SPLITFACE LIMESTONE STEP  
COLOR : BEIGE



TYPE : ROCK  
NAME : STONECREEK LIMESTONE  
COLOR : BEIGE



TYPE : FURNITURE  
NAME : UHPC CONCRETE BENCH  
COLOR : GREY



TYPE : FURNITURE  
NAME : UHPC CONCRETE BENCH  
COLOR : WHITE



TYPE : FURNITURE  
NAME : UHPC CONCRETE LITTER BIN  
COLOR : BEIGE



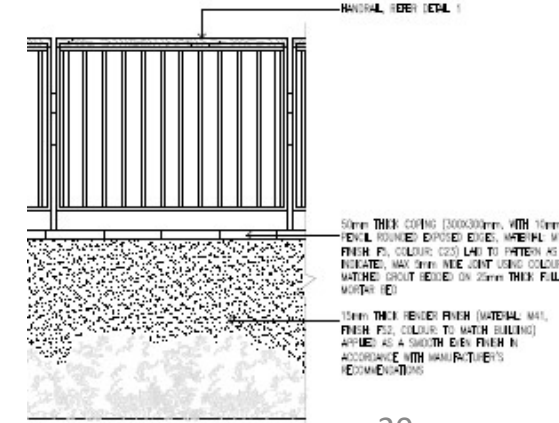
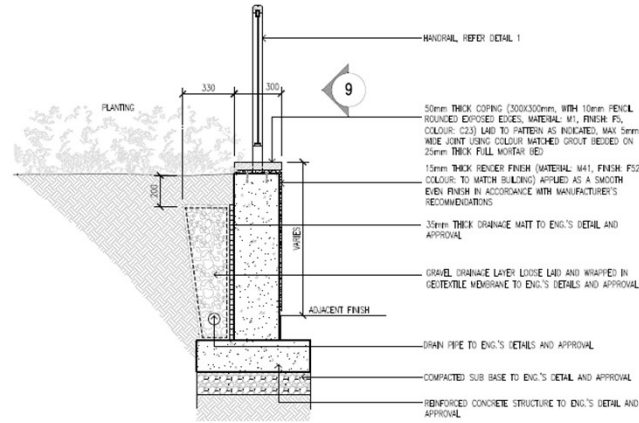
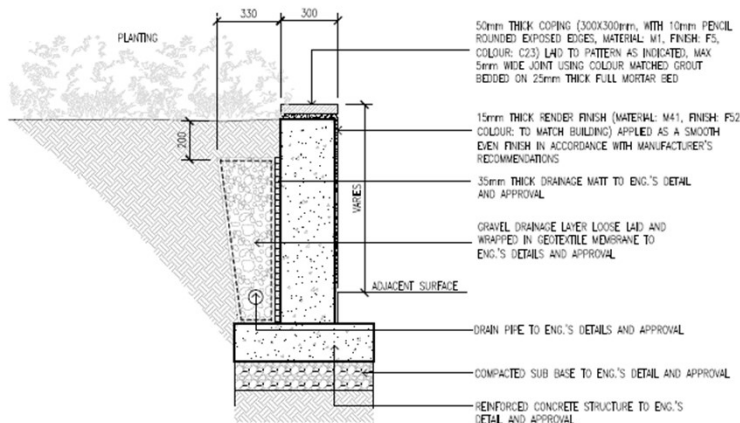
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TYPE : FURNITURE  
NAME : CONCRETE TREE GRATE  
COLOR : GREY



TYPE : FURNITURE  
NAME : SHADE STRUCTURE  
COLOR : BEIGE





\*3D Render performed by CGI Artist



\*3D Render performed by CGI Artist



## D&C Offices in RCU

In the pursuit of the D&C Offices in RCU (Royal Commission of Al-Ula) project, the design and strategy prioritize creating a tailored landscape that fulfills the site's requirements and user needs, fostering an interactive space that promotes engagement and productivity. With a deep appreciation for the importance of landscapes and green infrastructure, the project strives to safeguard and restore the natural systems present, resulting in enhanced ecosystem services and a sustainable environment. Understanding the site's distinctive nature and recognizing its interconnectedness with the surrounding ecosystem are integral to the design and strategy, exemplifying a commitment to sustainability and the preservation of ecosystem services that mutually benefit the project and its environment.

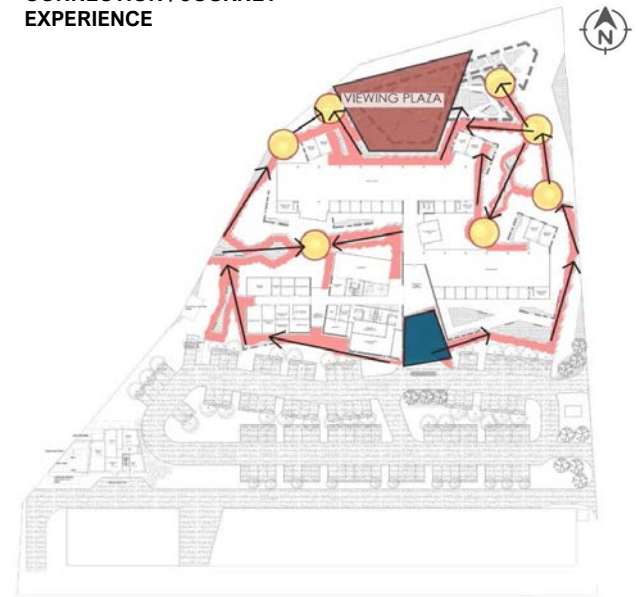
SITE COMPREHENSION



USER ENGAGEMENT SPOTS



CONNECTION / JOURNEY EXPERIENCE



- PEDESTRIAN ACCESS FROM OUTSIDE THE SITE
- ↔ BUILDING EXIT AND ENTRANCE POINTS
- BUILDING ENTRANCE
- GRID LINES EXTENDED FROM BUILDING

- MEETING POINTS
- ▭ VIEWING PLAZA
- ▭ ENTRANCE PLAZA

PEDESTRIAN ROUTES  
 PATHWAYS ARE CREATED WITHIN THE SITE BETWEEN THE ENGAGEMENT POINTS TO CONNECT THE USERS TO EACH OTHER UNTIL THEY FINALLY REACH THE POINT WHERE THE **RELATIONSHIP BETWEEN MANKIND AND THE DESERT IS REFLECTED THROUGH THE VIEWING PLAZA** FADING OUT TO THE DESERT.

\*3D Render performed by CGI Artist



**Open Landscape**  
 Gathering area for the users  
 providing seating areas with low  
 growing plants

**Enclosed Landscape**  
 Small pocket areas with  
 benches and plants of  
 different heights

**Buffer Zone**  
 Big shrubs providing a  
 natural separation

**Transitional  
 Landscape**

**Pocket  
 Landscaping**

**Entrance**

**Site Access Points**





# Hardscape Selection



**Flagstone Granite Pavers  
(Random Cut)  
Pedestrian**



**Decomposed Granite  
Pedestrian**



**Compacted Sand  
Pedestrian**



**Gravel Heavy Duty  
Vehicular**



Fading out to a desert like finish using **Compacted Sand** material.

Courts and open spaces with more Pedestrian Movement: **Compacted Sand + Granite Tiles Random Cut + Decomposed and Crushed Granite**

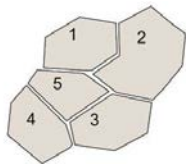
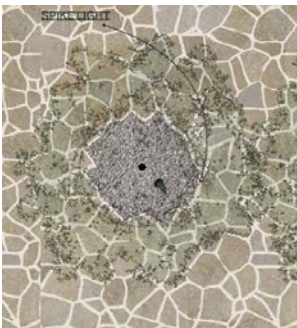
Sidewalks around entrance area: **Compacted Sand + Decomposed Granite**

Roads: **Gravel**



**A gradient of different natural hardscape materials used to evoke the story of the space emerging from and extending to the desert.**

## GRANITE TILES DESIGN (RANDOM CUT)

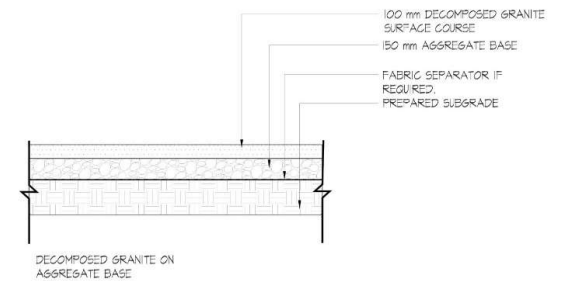
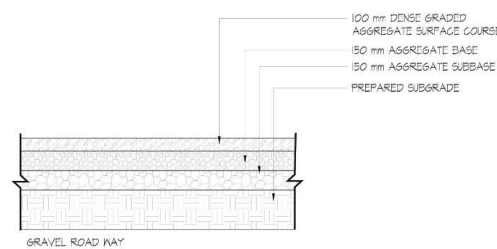


**TYPE 1  
LARGE TILES**



**TYPE 2  
LARGE TILES**

## HARDSCAPE DETAILS



# Materials by Function



Compacted Sand in Majority to connect with the desert landscape around the site

Granite Pavers path around the building linking the gathering points creating nodes at intersections

All Exterior Walls have planted areas to blend the architecture into the landscape



Pocket planted areas for natural feel

Gravel (Heavy Duty) for Parking Area

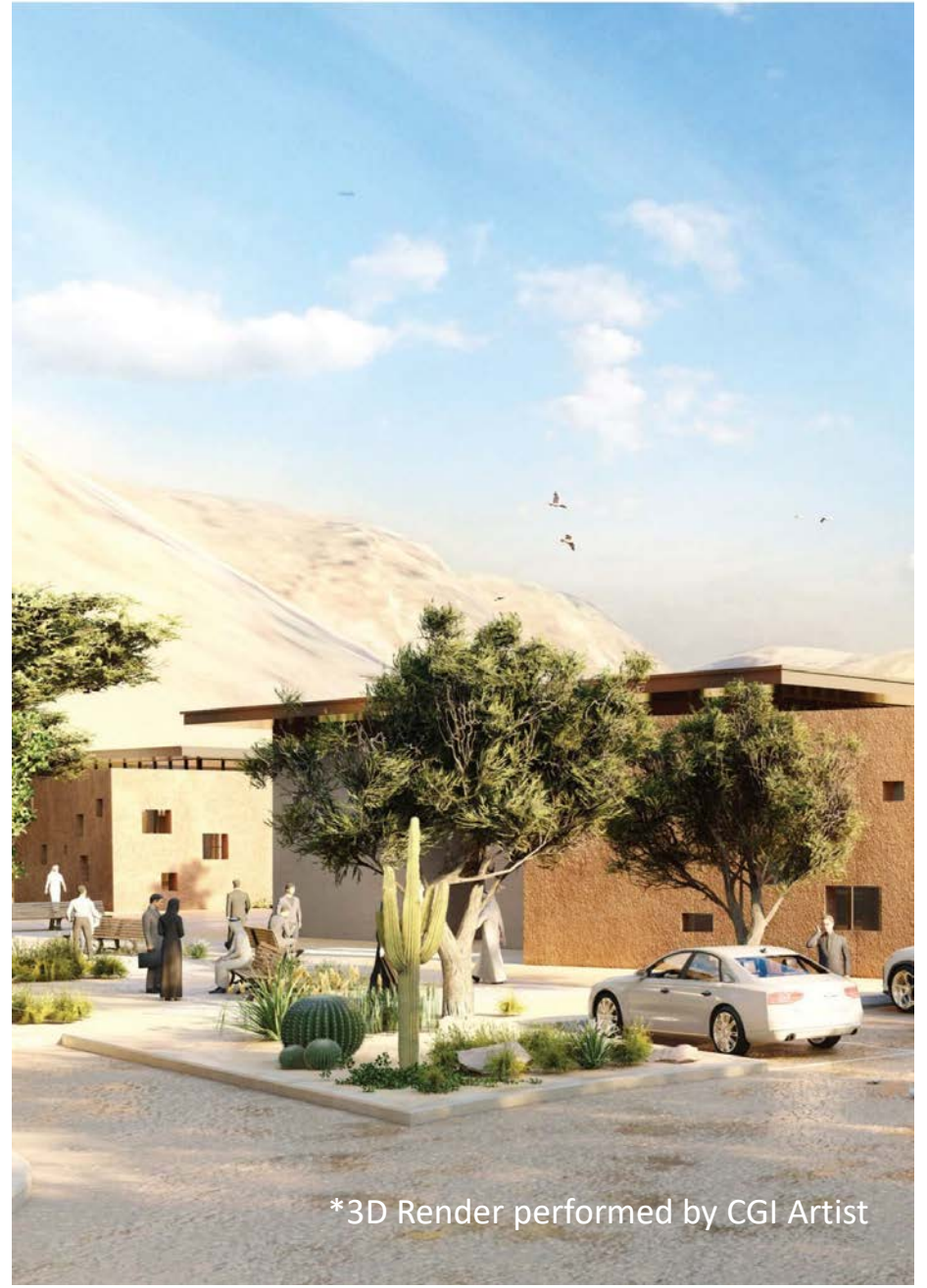




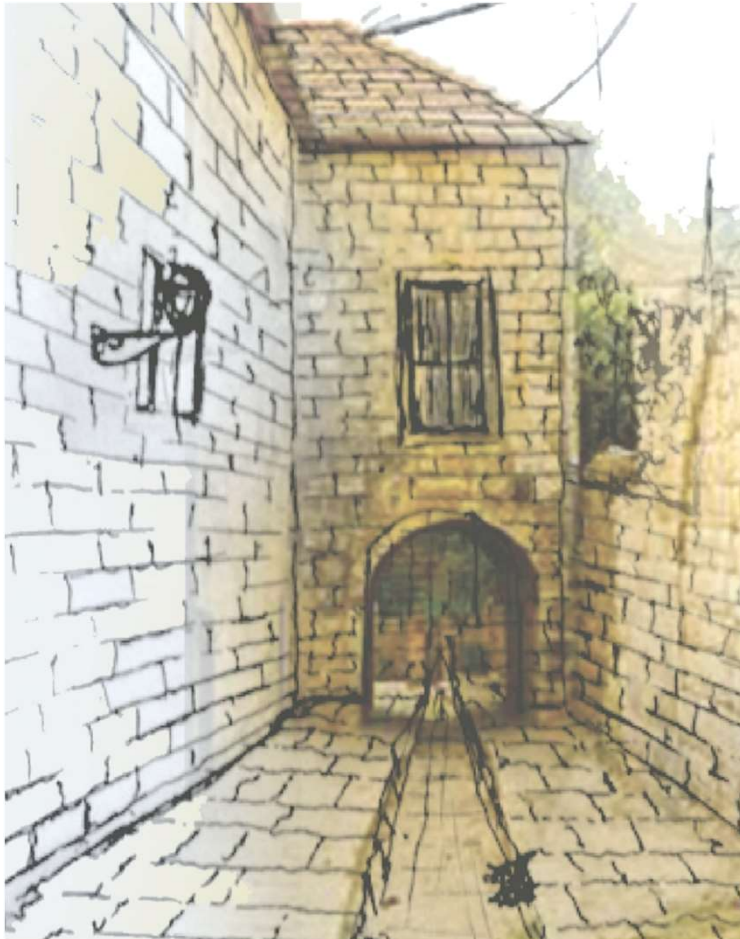
\*3D Render performed by CGI Artist



\*3D Render performed by CGI Artist



\*3D Render performed by CGI Artist



"Final Year Project sketch at Deir El Kamar, beautifully sketched by me."

## Professional

### AL RAS AL ABYAD

Riyadh, Saudi Arabia

03

### THE OBEROI BEACH RESORT

Al Zorah Ajman, UAE

10

### G20 BUILDING RETREAT CENTER

Diriyah, Saudi Arabia

17

### D&C Offices in RCU

AlUla, Saudi Arabia

23

## Academic

### THE MIDDLE GROUND

30

### THE HISTORICALL TIES

Final year project

32

# The Middle Ground

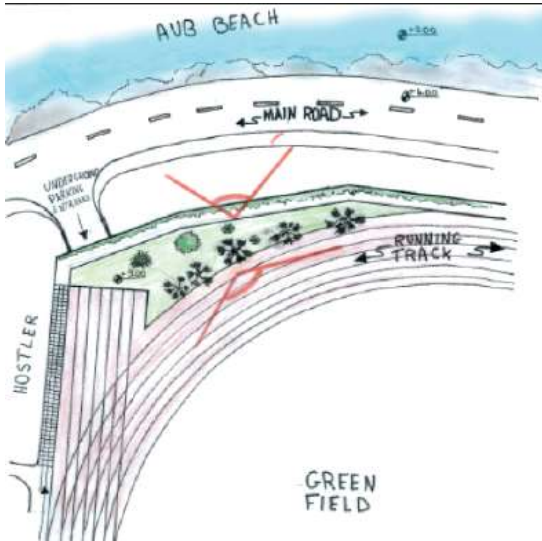
During my second year studying Landscape Architecture at university, we were tasked with selecting a site, conducting a comprehensive analysis, and subsequently formulating a conceptual design aimed at improving the site's usability for fellow students. For my project, I chose a site that was currently underutilized, and I focused on enhancing its potential as a communal space. Central to my design was the creation of shade structures, inspired by the angular geometry of the location's view lines. These structures, characterized by their distinctive triangular form, were intended to provide respite from the sun, thus facilitating longer stays and encouraging more interactions among students..



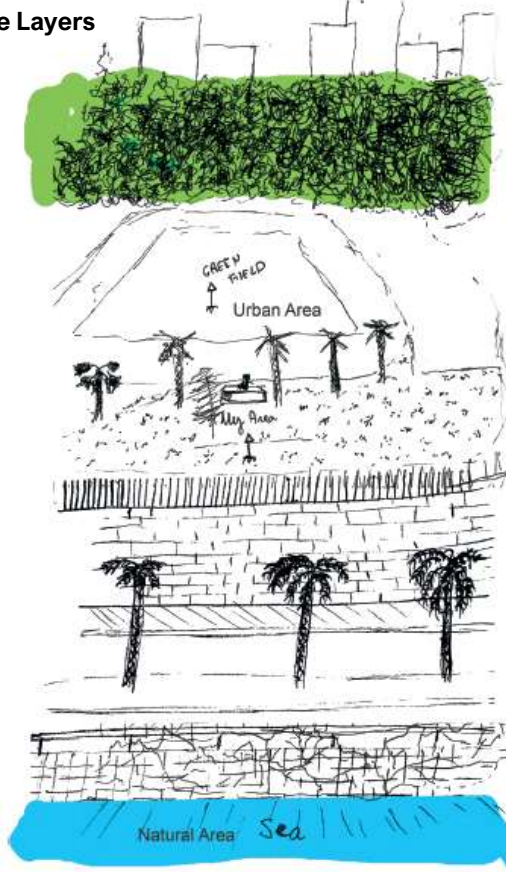
Site Location



Site Views



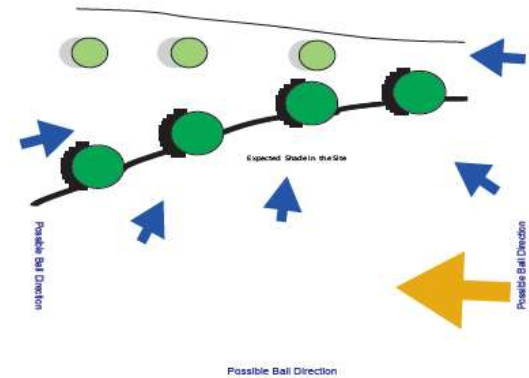
Site Layers



Wind Directions

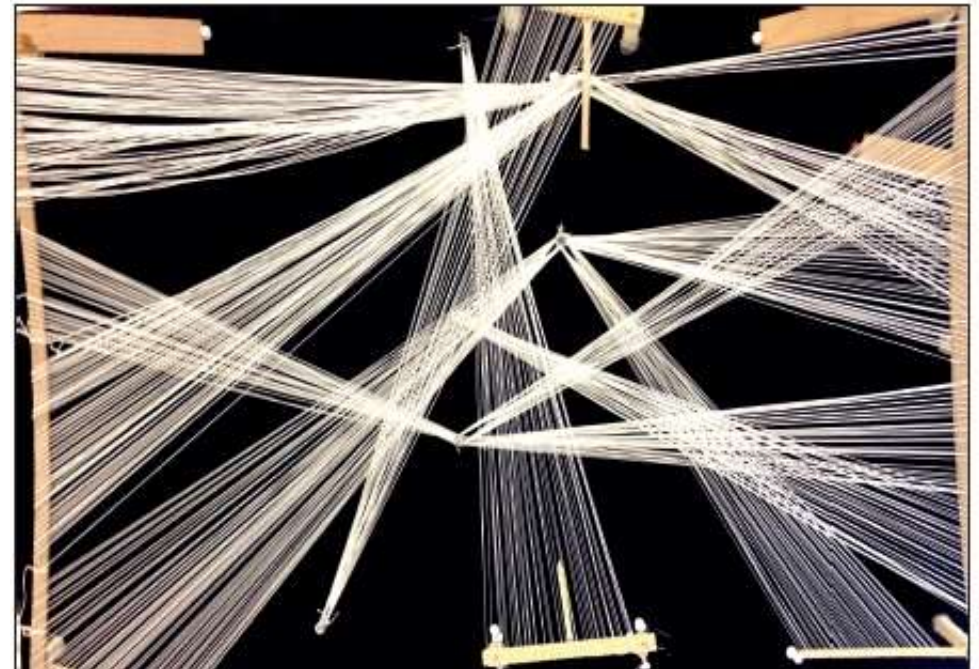


Sun Directions



## Space Typologies

To convey my vision effectively, I constructed a model using threads to represent these angular shade structures. This tactile representation helped to visualize the interplay of light and shadow, and the potential transformation of the space into a more comfortable and inviting area for students

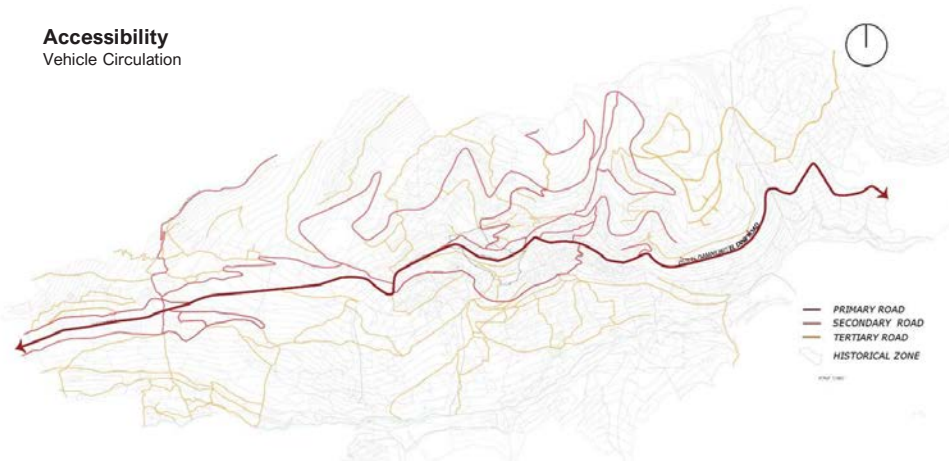




## THE HISTORICAL TIES

My final year project, titled "The Historical Ties," focused on the revitalization of the historical heritage of Deir El Qamar, a traditional Lebanese town situated in the Chouf caza of Lebanon. With a passion for preserving cultural history, my vision for the project was to create a design that would reinforce and emphasize the town's unique historical background, which had gradually faded over time. By establishing a simple connection between the main street and the hidden alleys, my aim was to create a seamless pathway that would showcase the historical landmarks and evoke a sense of pride and appreciation for Deir El Qamar's rich heritage. This design sought to breathe new life into the town, ensuring that its historical narrative is preserved and celebrated for generations to come.

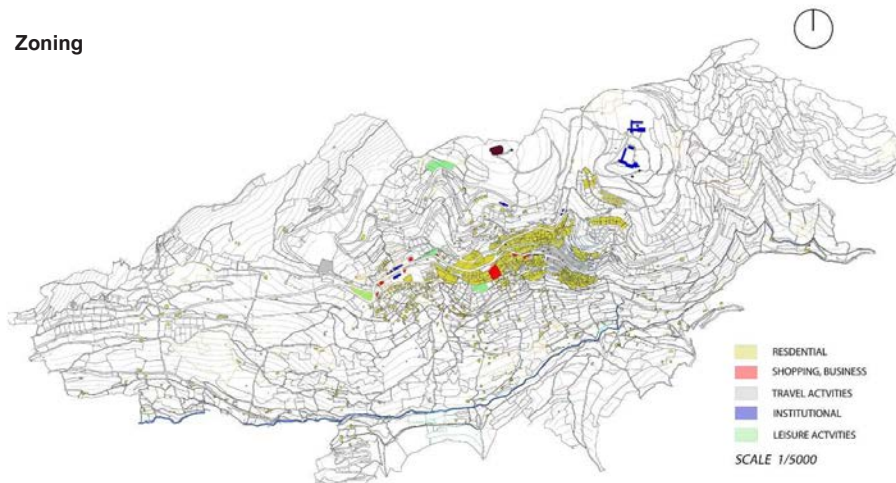
### Accessibility Vehicle Circulation



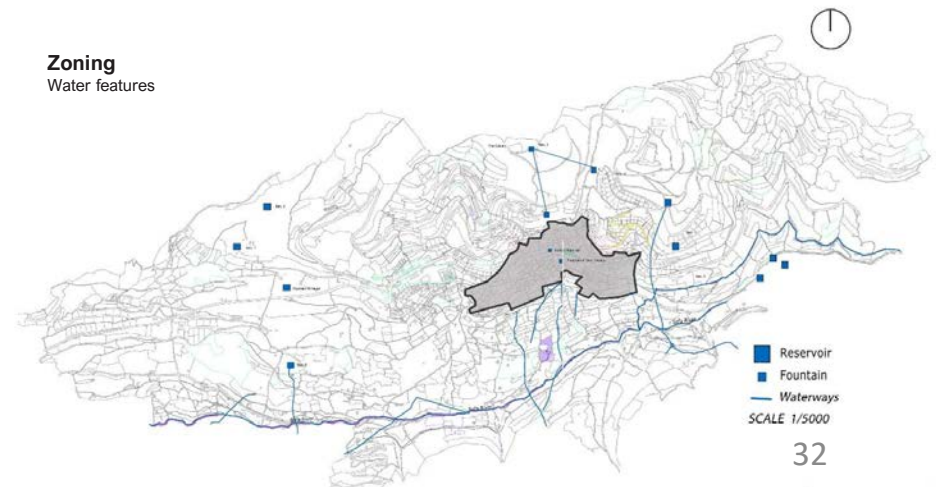
### Zoning Green areas



### Zoning

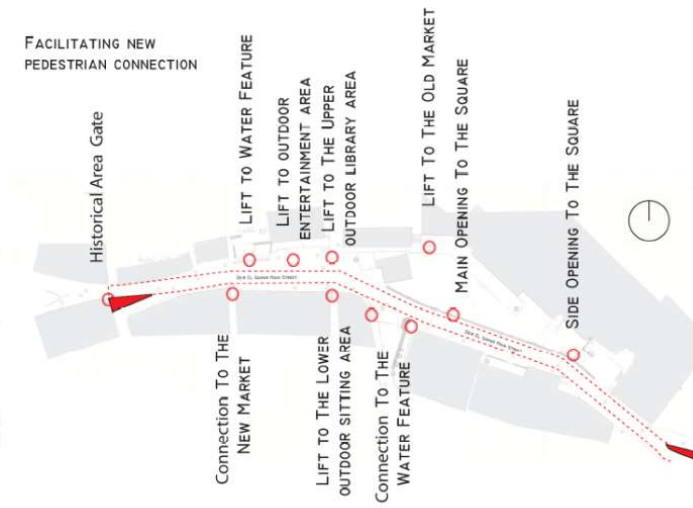
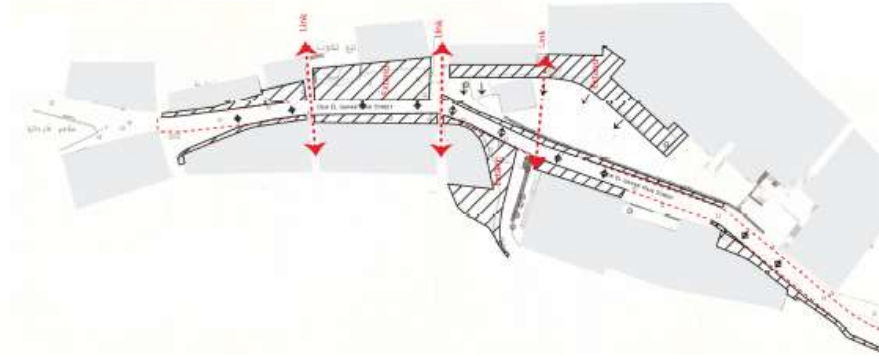
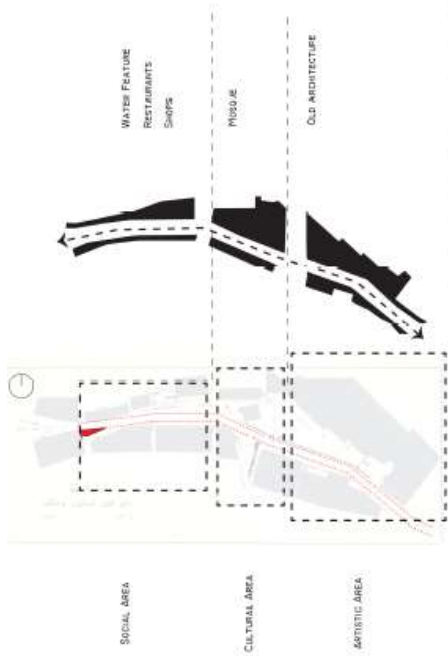


### Zoning Water features





# Space Analysis



THE SHALOUT FOUNTAIN

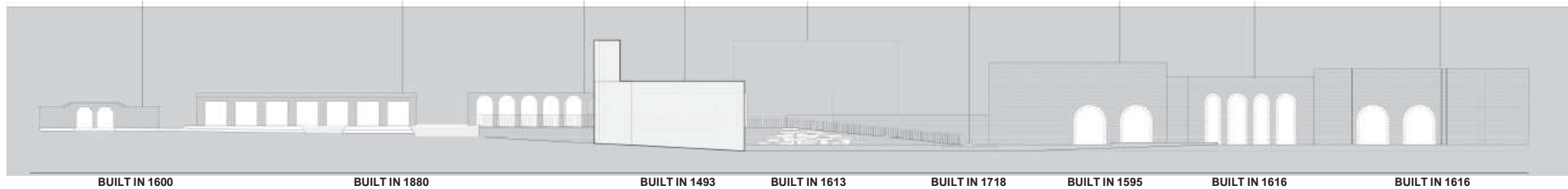
THE OLD SOUK

THE OLD SOUK  
MOSQUE OF FAKHREDDIN 1<sup>ST</sup> MAAN  
THE PALACE OF EMIR YOUSSEF MAAN

THE 19<sup>TH</sup> CENTURY FOUNTAIN  
THE KAISSARIYYEH

THE KHARJ

THE SERAGLIO



BUILT IN 1600

BUILT IN 1880

BUILT IN 1493

BUILT IN 1613

BUILT IN 1718

BUILT IN 1595

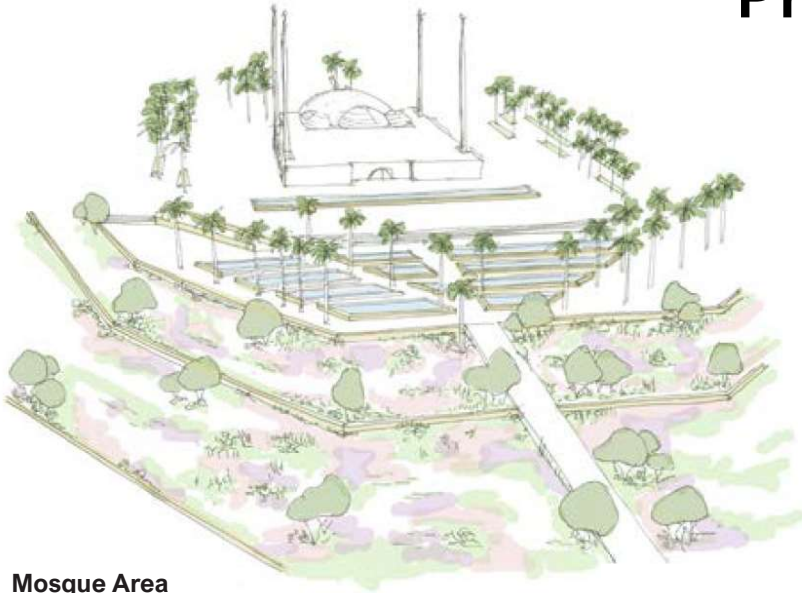
BUILT IN 1616

BUILT IN 1616

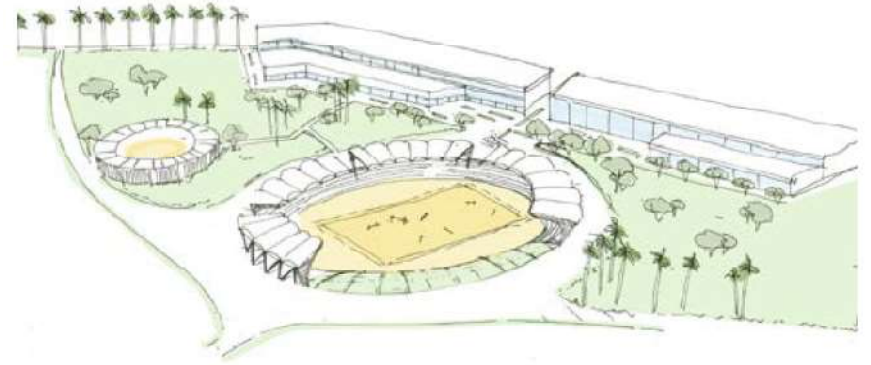
Section showing the connection between different landmarks throughout the main street



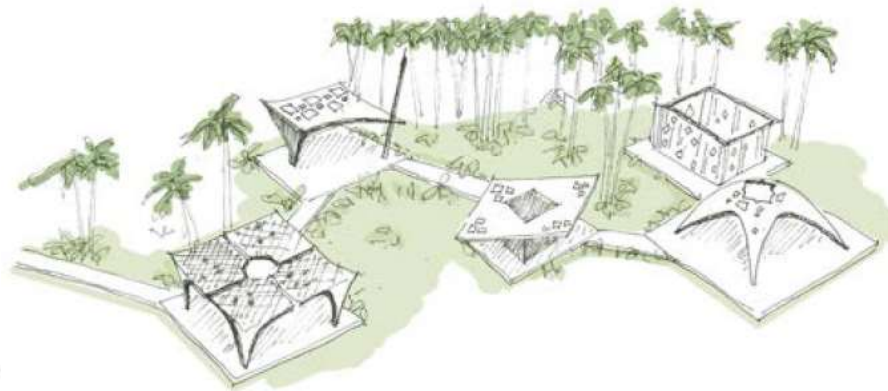
# Random Sketches From Previous Projects



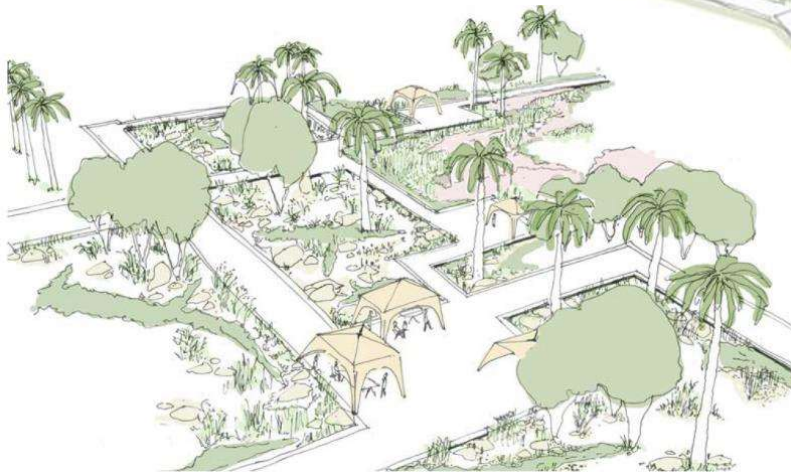
Mosque Area



Display Area



Pavilions



Family Gardens



Sports Area



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**EMAIL: [roy.nassif@skema.edu](mailto:roy.nassif@skema.edu)**