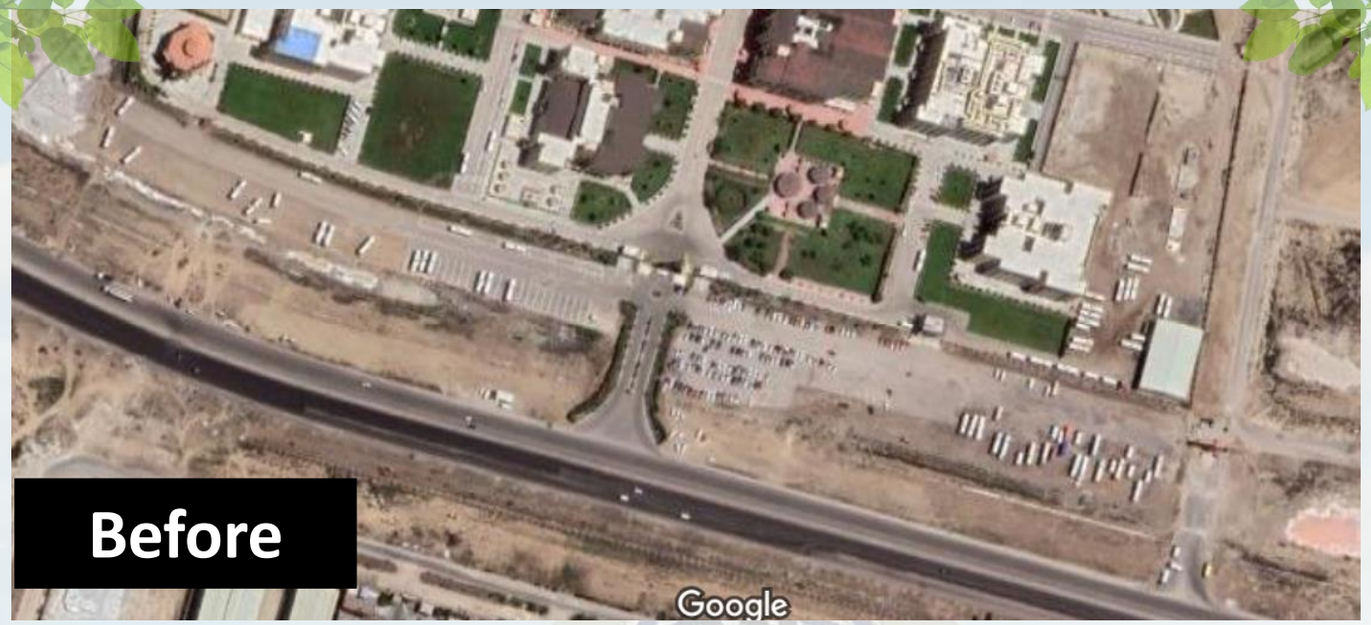
Landscape Design for Sustainable DU Campus

Final Proposal

Saturday 17/12/2022

Rahma Sami





Saturday 17/12/2022

Rahma Sami

Delta University
Faculty of Engineering
Architecture Department

Landscape Design for Sustainable DU Campus

Supervision :
Prof / Amany Ragheb
Dr / Rasha Ali

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07	Render	7.1. 3D Shots		

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Designed by:
Eng / Rahma Sami El-Goher

1-1-Design Objectives

Aims & Objectives

1. A new landscape design for the main parking of the university campus
2. The design is consistent with the university's vision of a sustainable campus
3. The design contributes to linking the university campus with its urban surroundings

Design Approach

1. Designing a new sustainable campus landscape that creates a strong visual image of the university.
2. The new landscape supports the well-being of the various beneficiaries, from students, staff and workers of the university to the surrounding community.

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1-2-Design Ideas

Orientation



Pedestrians Path



Active open spaces



Sustainable Mobility



Bicycle Station

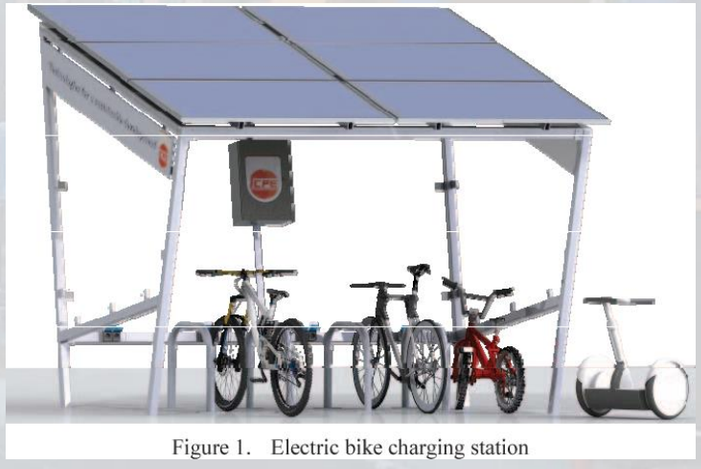
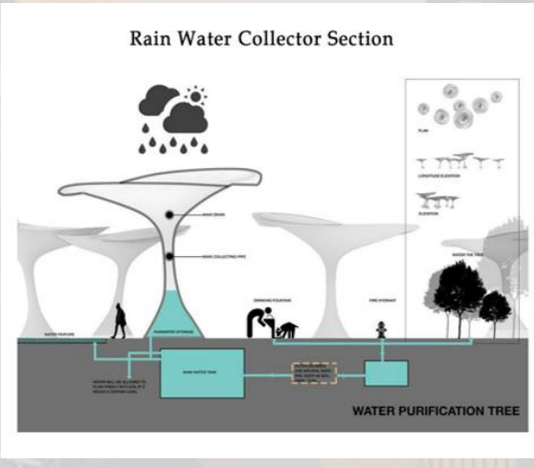


Figure 1. Electric bike charging station

Rainwater Collectors



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1-3-Design Strategies

Design Strategies

1. **Separation of parking for various uses** facilitates legibility of accessibility
2. **Use of Native Trees & Plants and Rain Collector Units** reduce water consumption
3. **Vehicles entering and exiting through service street** respecting the international road layout
4. **Landscape Components** organize activities like gathering & hanging out
5. **A main pedestrian semi shade corridor** services the humanization of the university campus
6. **Respecting Landmark Gate design** by maxim the benefit of entrances

Design Inspiration

1. **Humanistic Design**
   Dealing with care and concern with standards human Social, human comfort, human movements and human moods.
2. **Main Gate Landmark**
   Reflected the strong visual attraction of main entrance from the third dimension to the second dimension

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1-3-Design Strategies

1-3-1- Separation of parking for various uses facilitates legibility of accessibility







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1-3-Design Strategies

1-3-2- Use of Native Trees & Plants and Rain Collector Units reduce water consumption







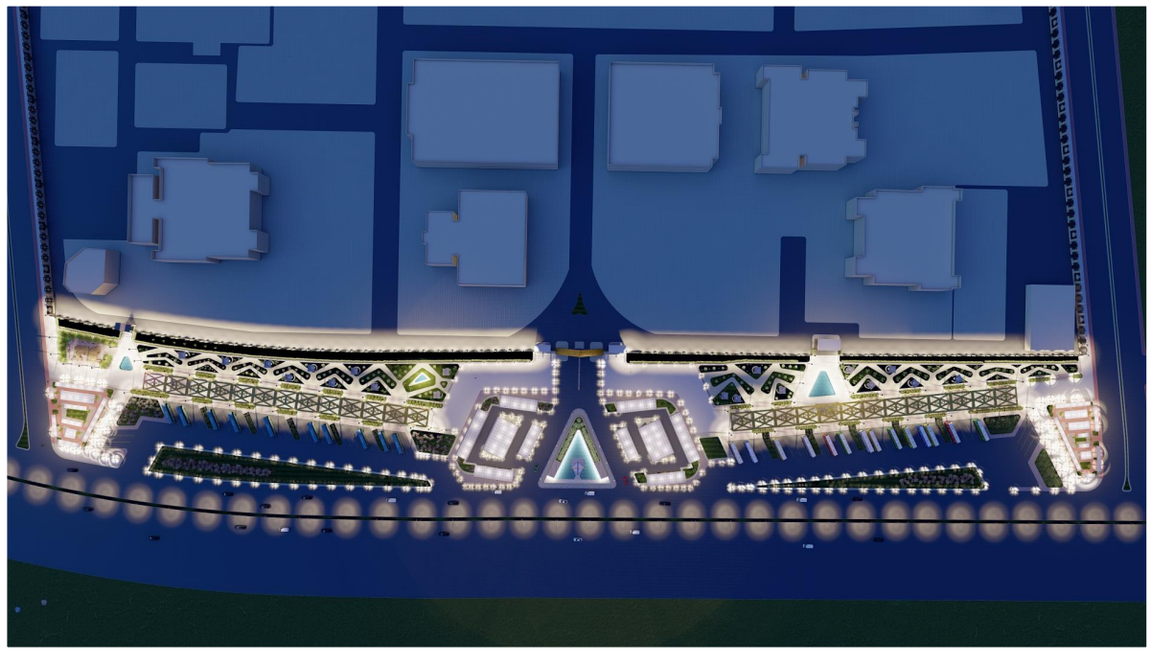
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1-3-Design Strategies

1-3-3- Vehicles entering and exiting through service street respecting the international road layout







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1-3-Design Strategies

1-3-4- **Landscape Components** organize activities like gathering & hanging out







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1-3-Design Strategies

1-3-5- **A main pedestrian semi shade corridor** services the humanization of the university campus







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1-3-Design Strategies

1-3-6- Respecting Landmark Gate design by maxim the benefit of entrances







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1-3-Design Strategies

Design Inspiration

Humanistic Design

1 Dealing with care and concern with standards human Social, human comfort, human movements and human moods.



Main Gate Landmark

2 Reflected the strong visual attraction of main entrance from the third dimension to the second dimension



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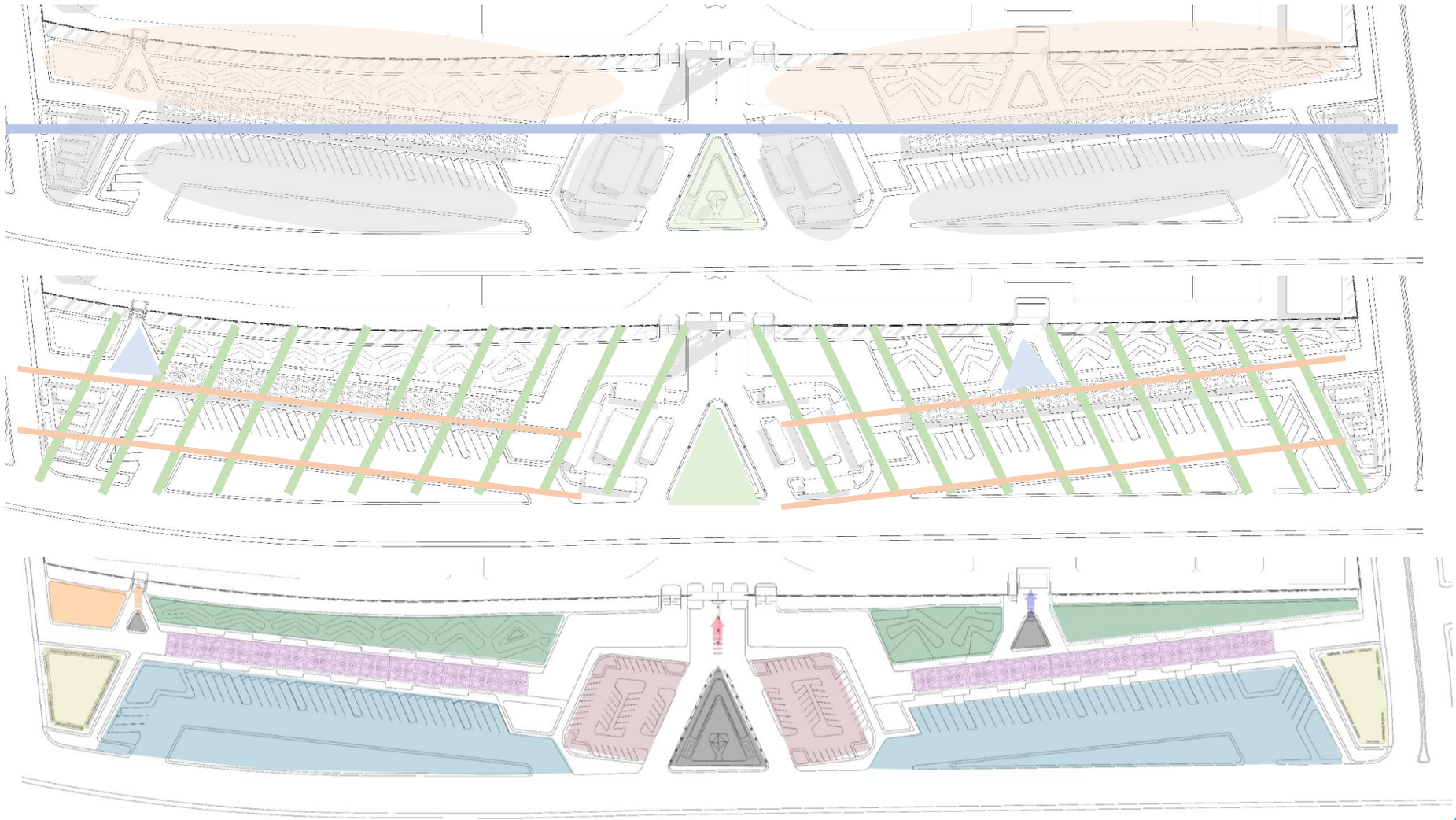
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Concept Diagram

1- Zoning regard Vehicles Parking& Circulation from service street

2- Grids respect lines of the Project Site according to the concept

3- Forms for design elements character



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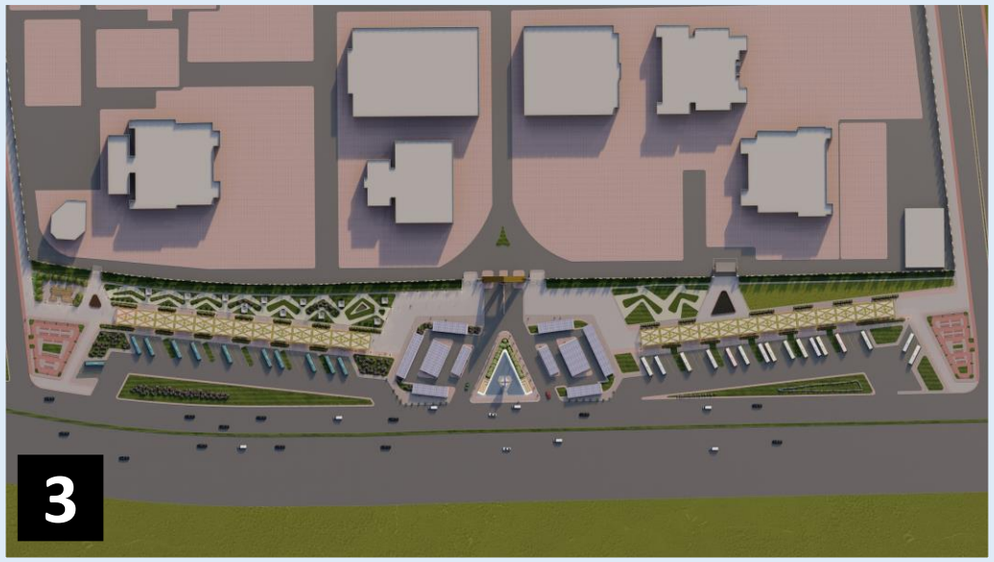
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Production Process









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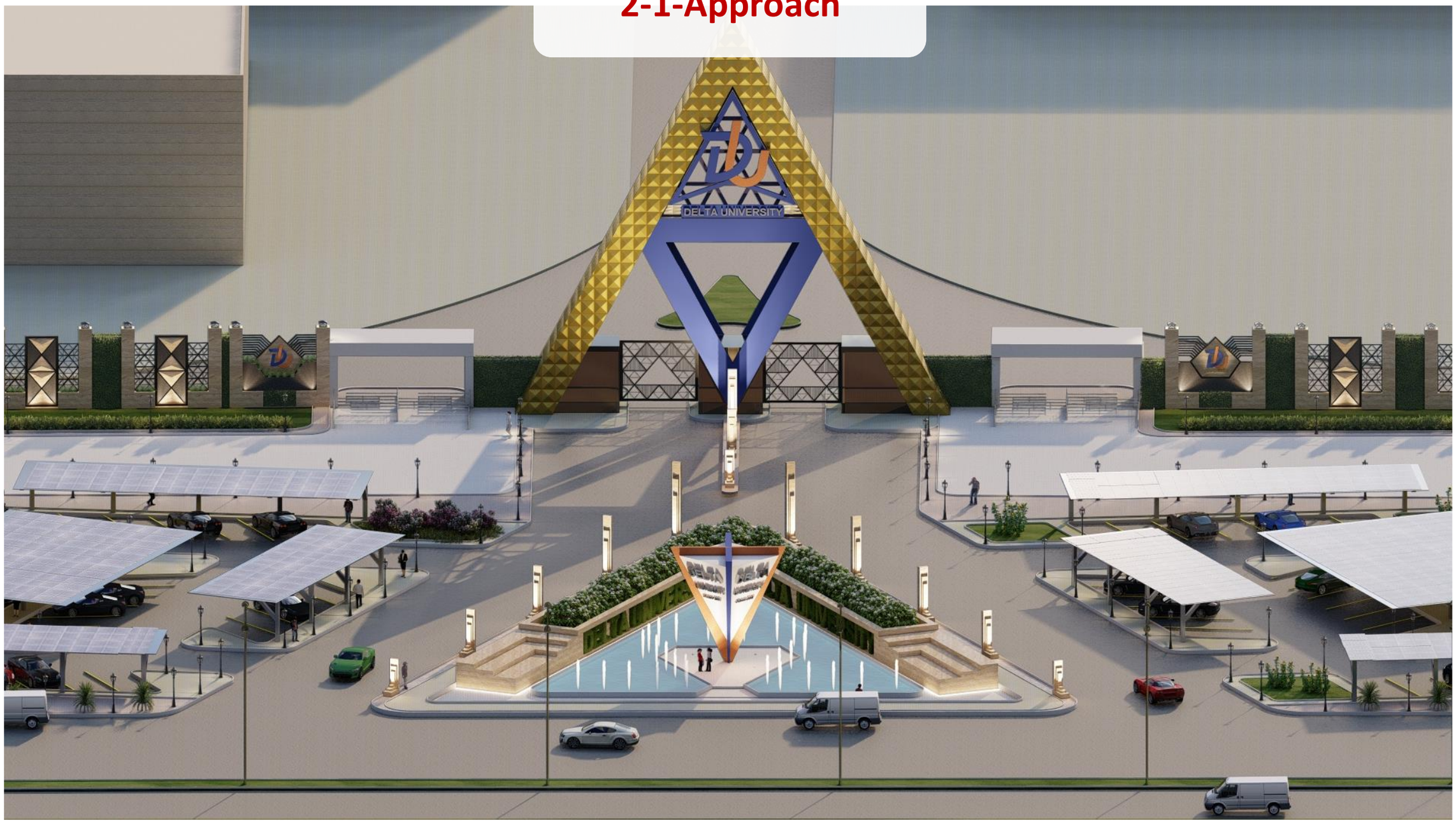
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2-1-Approach



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2-2-Fence



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Fence Units Alternatives

For Final Proposal
Two units :
1-one with the logo of the university and colleges.
2-the other allows a degree of transparency that respects visual contact with the outside scene.

















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2-3-Gate



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3-1-Site Plan



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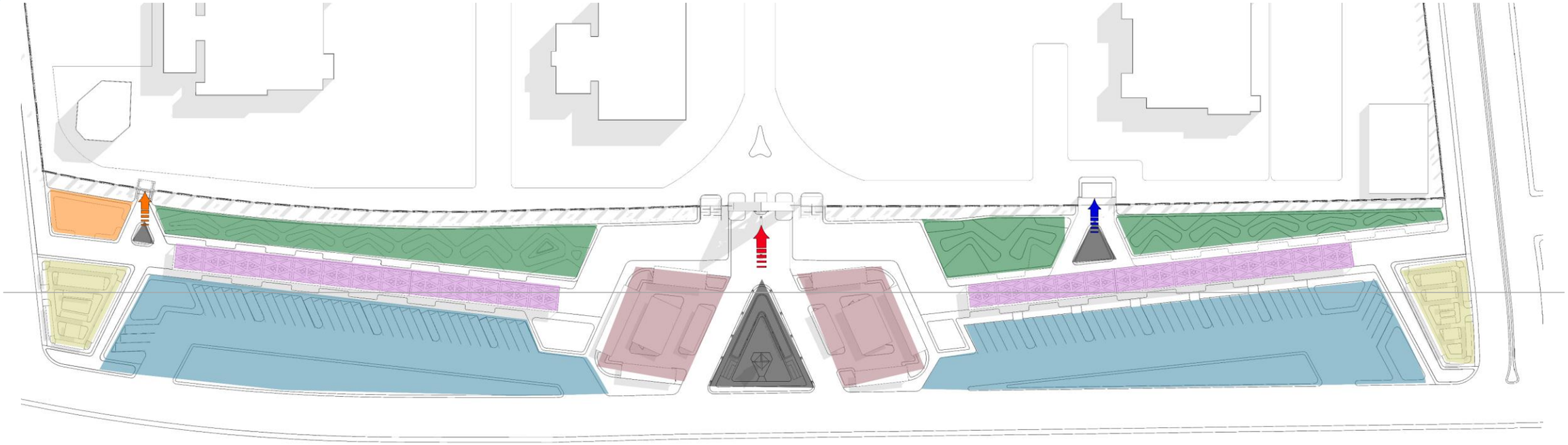
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3-2-Zoning & Uses



Key

- Main Gate
- Approach
- Car Parking
- Pedestrian Path
- Entrance
- Bus Parking
- Green Plaza
- Bank Branch
- Bicycle Parking
- Waiting area

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4-1-Pedestrian path



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4-1-Pedestrian path



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4-1-Pedestrian path



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4-1-Pedestrian path



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4-1-Pedestrian path



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4-2-Green Plaza



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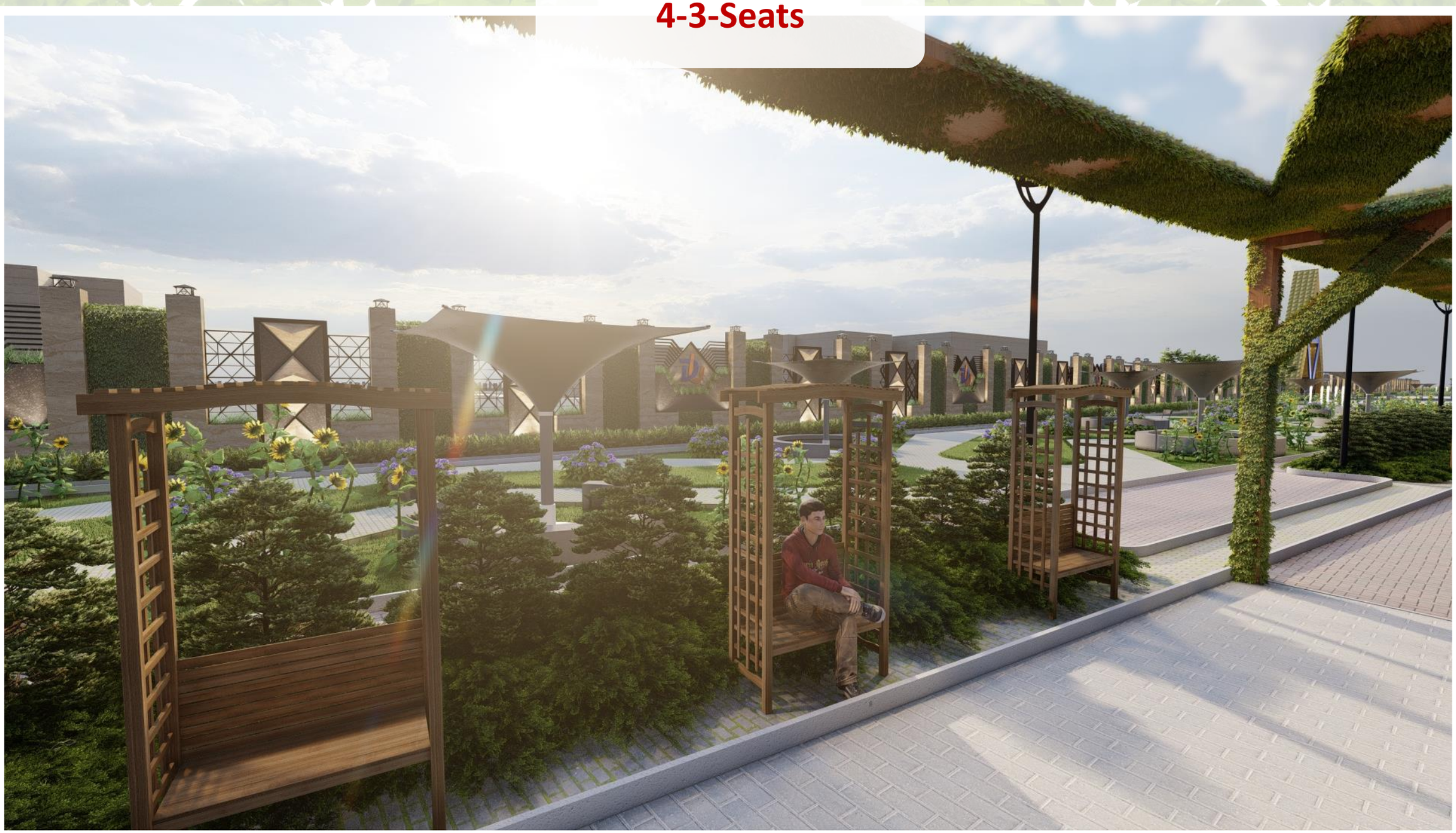
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4-3-Seats



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4-3-Seats



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Rahma Sami

Delta University
Faculty of Engineering
Architecture Department

Landscape Design for Sustainable DU Campus

Designed by:
Eng / Rahma Sami El-Goher

Supervision :
Prof / Amany Ragheb
Dr / Rasha Ali

5-1-Car Parking



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5-2-Bus Parking



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5-3-Bicycle Parking



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5-3-Bicycle Parking



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6-1-Climbing Plants & Trees



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6-1-Climbing Plants & Trees

Trees type table

Nu.	Symbol	Code	Latin Name	Common Name	Height	Width	Quantity	Clt	Trunk Height
1		Aes. ca.	Aesculus carnea 'Birotii'	Kırmızı Çiçekli Atkestanesi	15 - 20 m	8 - 10 m	3	30	5 m
2		Alb. ju.	Albizia julibrissin	Gülibrişim, İpek Ağacı	10 - 12 m	5 m	3	25	5 - 6 m
3		Pic. om.	Picea omorika	Sırp Ladini	10-25 m	5 - 10 m	4	35	-
4		Cup. ar.	Cupressus arizonica 'Fastigiata'	Arizona Servisi	12 - 15 m	3 - 5 m	6	35	-
5		Pru. ce.	Prunus cerasifera 'Pisardii nigra'	Süs Eriği	7 - 8 m	4 - 5 m	1	2,5	2 - 3 m
6		Cer. sq.	Cercis siliquastrum	Erguvan	7 - 8 m	4 - 5 m	5	1,5	2 - 3 m
7		Cot. co.	Cotinus coggygria	Duman Ağacı, Peruke Çalısı	5 - 7 m	3 m	1	18	1 m
8		Mal. fu.	Malus floribunda	Japon Çiçek Elması	7 - 8 m	4 - 5 m	2	30	1 - 2 m
9		Cor. ma.	Cornus mas	Kızılcık	7 - 15 m	3 - 4 m	3	18	3 - 5 m
10		Pic.gl.	Picea glauca 'Conica'	Yeşil Cüce Konik Ladin	4 - 5 m	1 - 2 m	1	25	-
11		Pin. mu.	Pinus mugo	Dağ çamı	2 - 5 m	2 - 5 m	-	20	-
12		Pic. pu.	Picea pungens 'Glauca Globosa'	Bodur Mavi Ladin	2.5 m	2 m	4	35	-
13		Jac. ma.	Jacobaea maritima	Bahçe Külü, Kül çalısı	15 - 45 cm	9.5 m2	-	ø	-
14		Ber. ver.	Berberis verruculosa	Berberis verruculosa	90 - 180 cm	16.7 m2	-	5	-
15		Vib. op.	Viburnum opulus	Gilaburu	3 - 5 m	3 - 5 m	1	10	-
16		Ros. sp.	Rosa 'Carte Blanche'	Karte Gülü	50 cm	60 cm	1	15	-
17		Syr. vu.	Syringa vulgaris	Leylak	4 - 6 m	4 m	8	55	1 - 2 m
18		Jun. ho.	Juniperus horizontalis	Sürünücü Ardıç	20 - 30 cm	24 m2	-	ø	-
19		Jun. sq.	Juniperus squamata 'Blue Star'	Mavi Sürünücü Halı Yıldız Ardıç	1 m	18 m2	-	ø	-

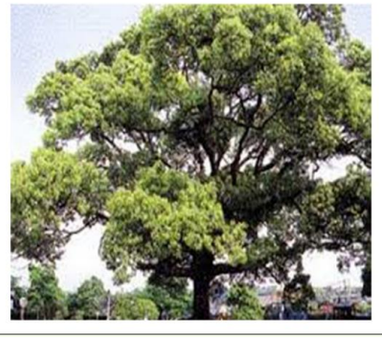




م	الاسم العربى	الاسم العلمى
1	السرو	*Cupressus sp.*
2	الصنوبريات	*Pinus sp.*
3	الكايا (الماهوجنى الأفريقي)	*Khaya senegalensis*
4	الكافور	*Eucalyptus sp.*
5	الأكاسيا	*Acacia saligna*
6	التوت	*Morus sp.*
7	السيسال	*Agava sisalana*
8	الكازورينا	*Casuarina sp.*
9	كنكاربس	*Concarpus sp.*
10	البامبو (مرحلة التجريب)	*Dendrocalamus strictus*
11	**الجاتروفا .. التفاصيل...**	*Jatropha curcas*
12	الترمناليا	*Terminalia sp.*
13	الحور	*Popular sp.*
14	بعض أشجار وشجيرات الزينة	Ornamental trees and plants









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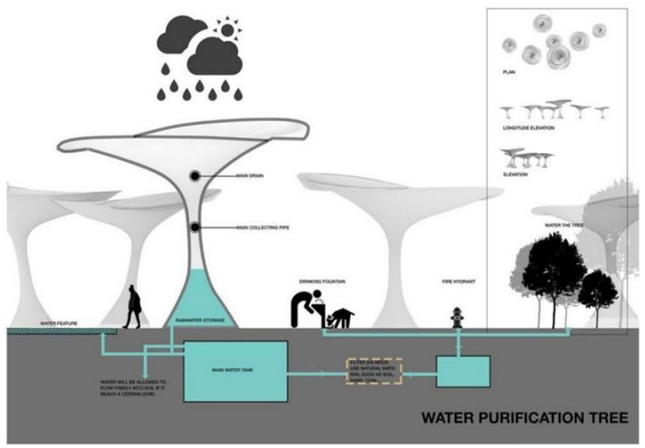
6-2- Rain Collector Units



Rain Water Collector Unit



Rain Water Collector Section



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6-3- Materials



Stone (1)

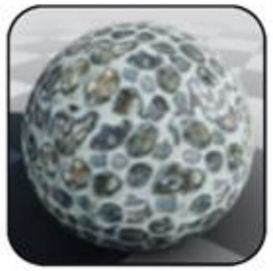

Concrete grass



Interlock (1)



Interlock (2)


Stone (2)



Concrete

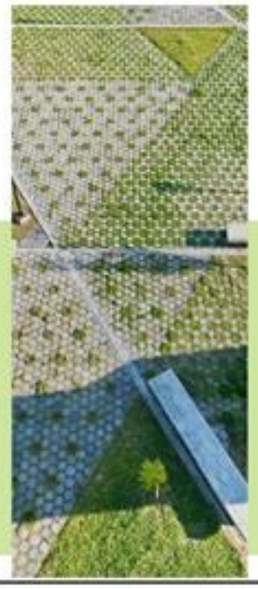


Recycled wood


Metal


Water

Sustainable Finishing Materials

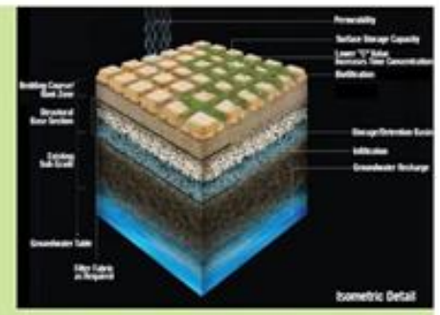


Grasscrete

MATERIAL

- Grasscrete is a concrete surface that is capable of supporting a 40-45ton load because this surface is a unique combination of natural bed and man-made materials.
- Grasscrete, gives a new idea or concept to the architect, engineer, or town planner to work with a surface or paving material with load-bearing characteristics of reinforced concrete with an aesthetic appeal of grass.

- The versatility of Grasscrete that new applications are constantly being discovered.
- Grasscrete is modern and socially acceptable innovation.
- It is providing all the practical solutions where concrete, tar, or other materials might be used but, at the same time also softening the urban landscape.



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7-1- 3D Shots



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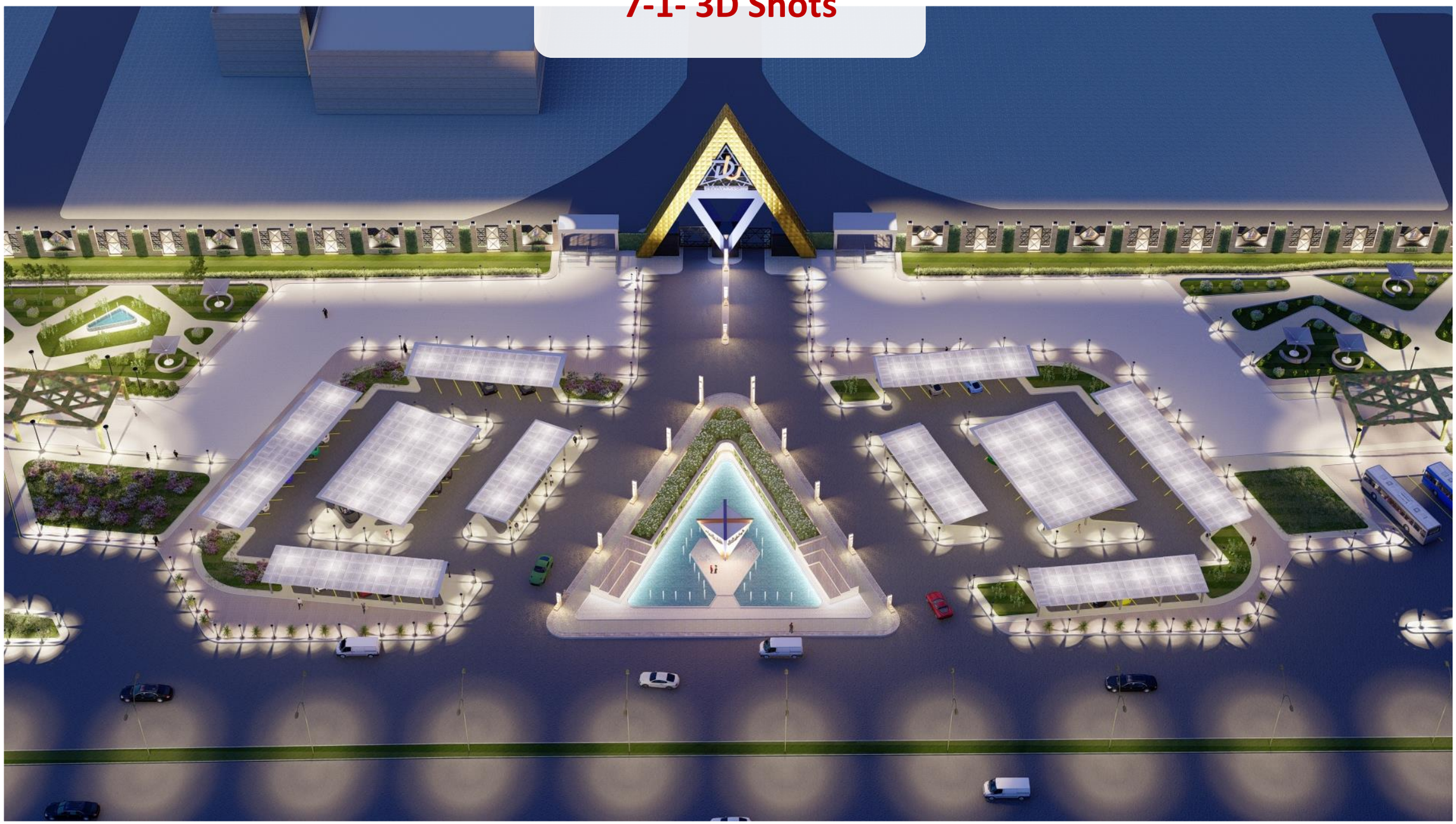
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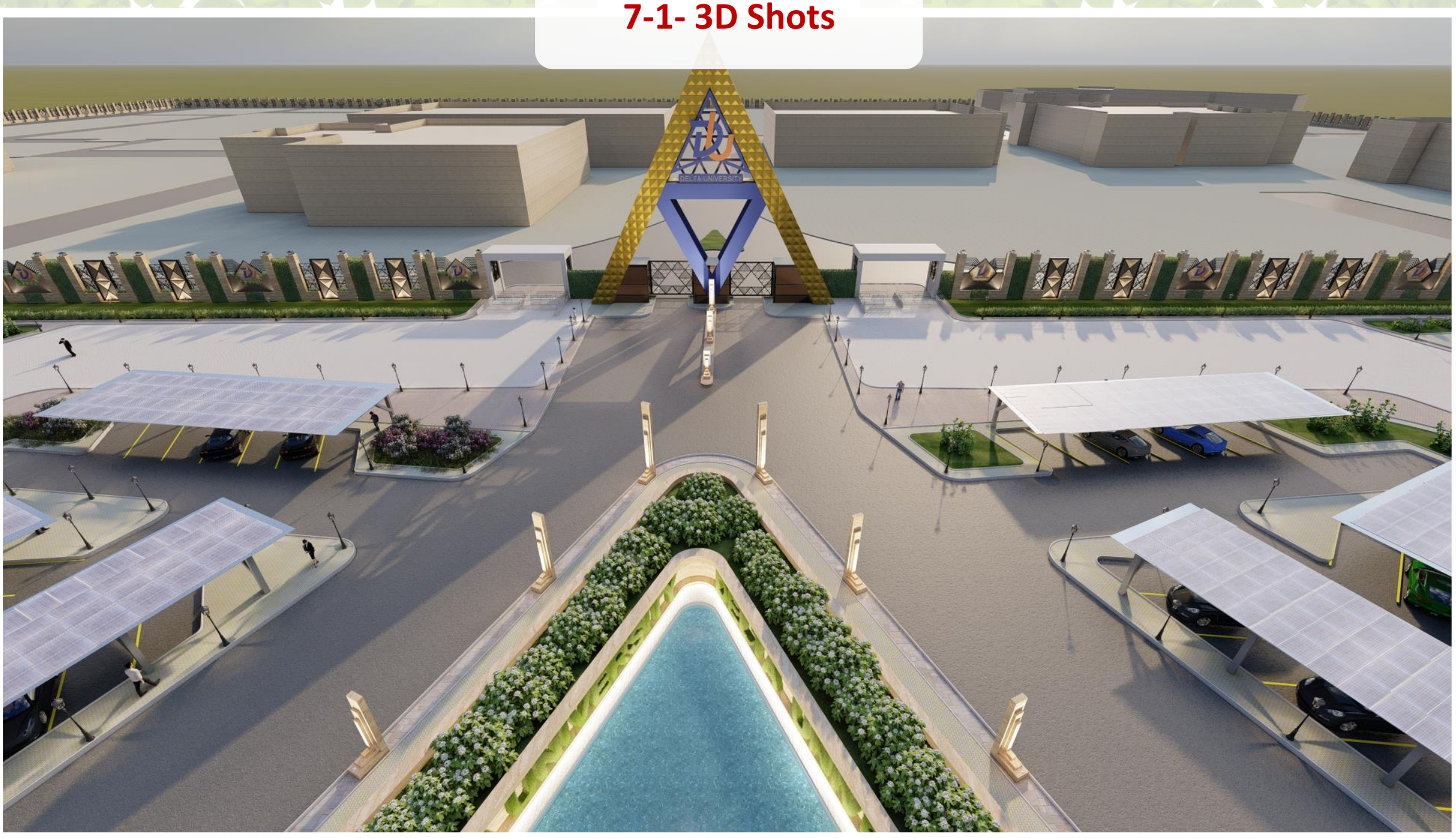
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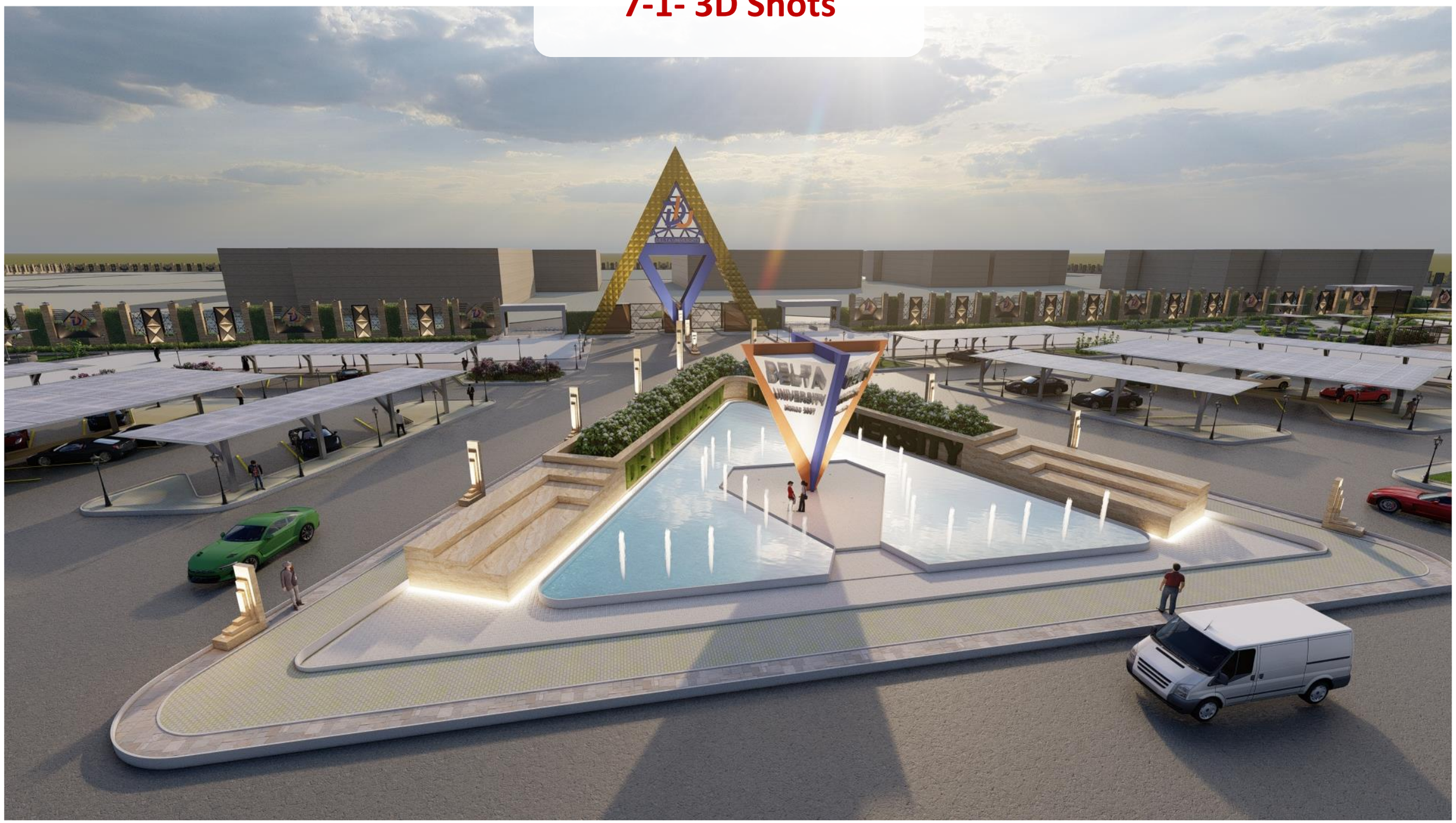
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7-1- 3D Shots



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1-1-Design Objectives 1-2-Design Ideas 1-3-Design Strategies	2-1-Approach 2-2-Fence 2-3-Gate	3-1-Site Plan 3-2-Zoning & Uses	4-1-Pedestrian path 4-2-Green Plaza 4-3-Seats	5-1-Car Parking 5-2-Bus Parking 5-3-Bicycle Parking	6-1-Climbing Plants & Trees 6-2-Rain Collector Units 6-3-Materials	7-1- 3d Shots

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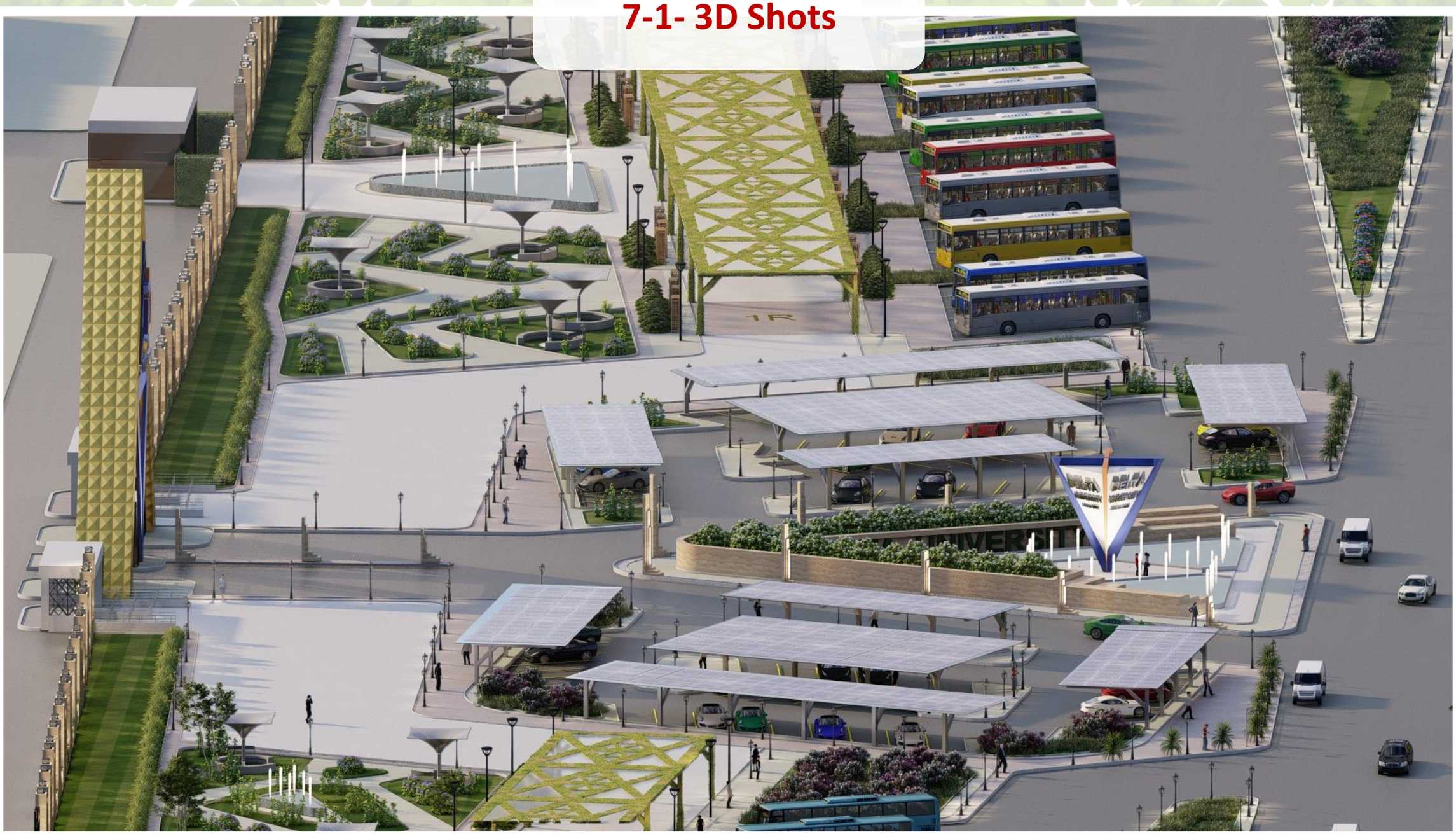
Delta University
Faculty of Engineering
Architecture Department

Landscape Design for Sustainable DU Campus

Designed by:
Eng / Rahma Sami El-Goher

Supervision :
Prof / Amany Ragheb
Dr / Rasha Ali

7-1- 3D Shots

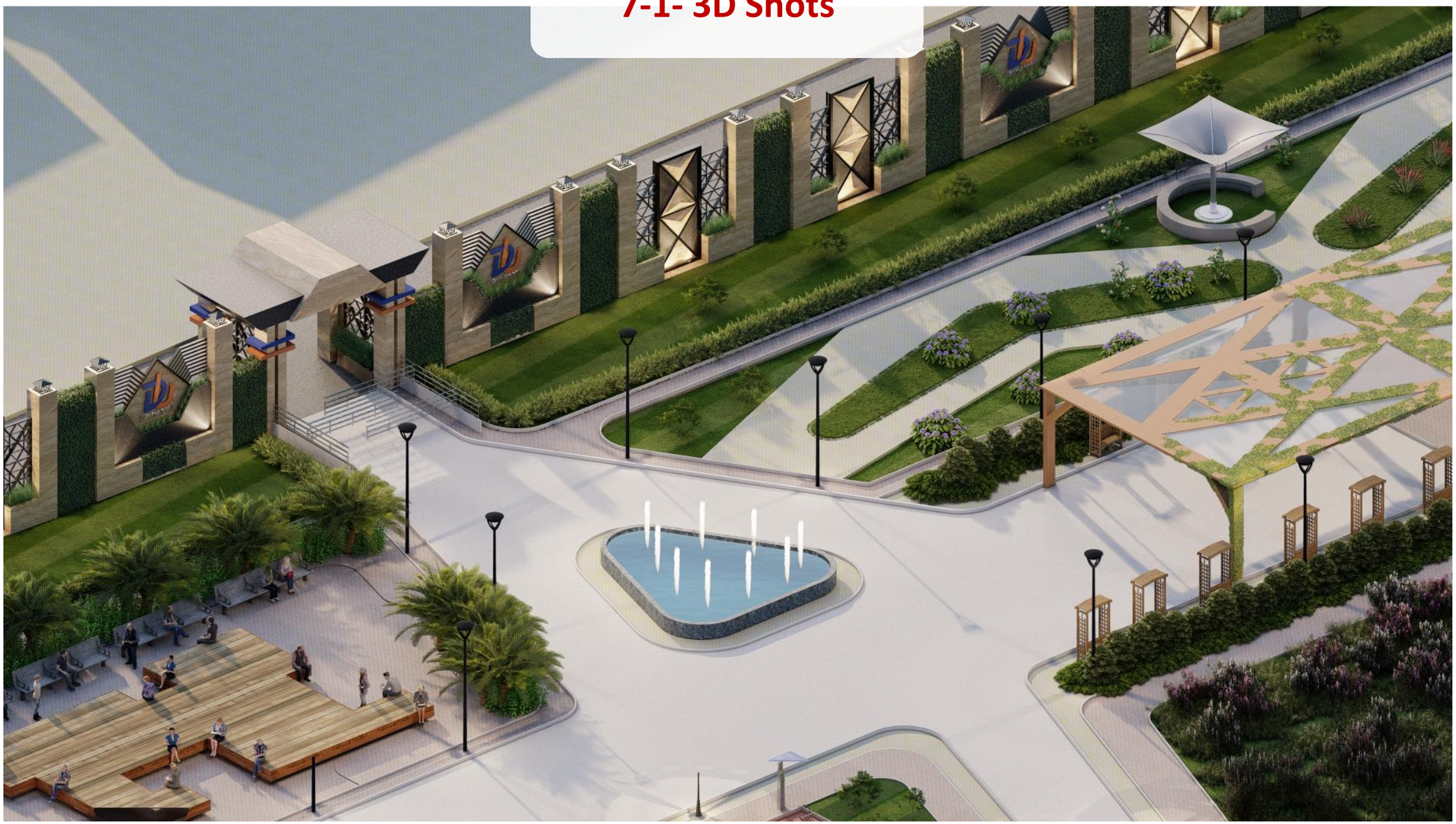


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Thank You



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Rahma Sami