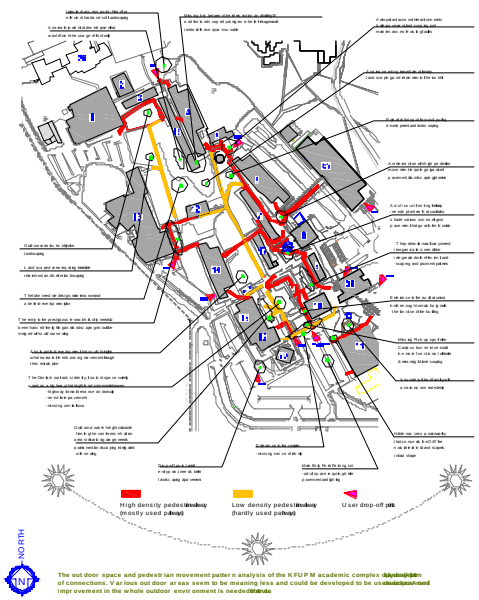
SPATIAL ANALYSIS AND MOVEMENT PATTERN



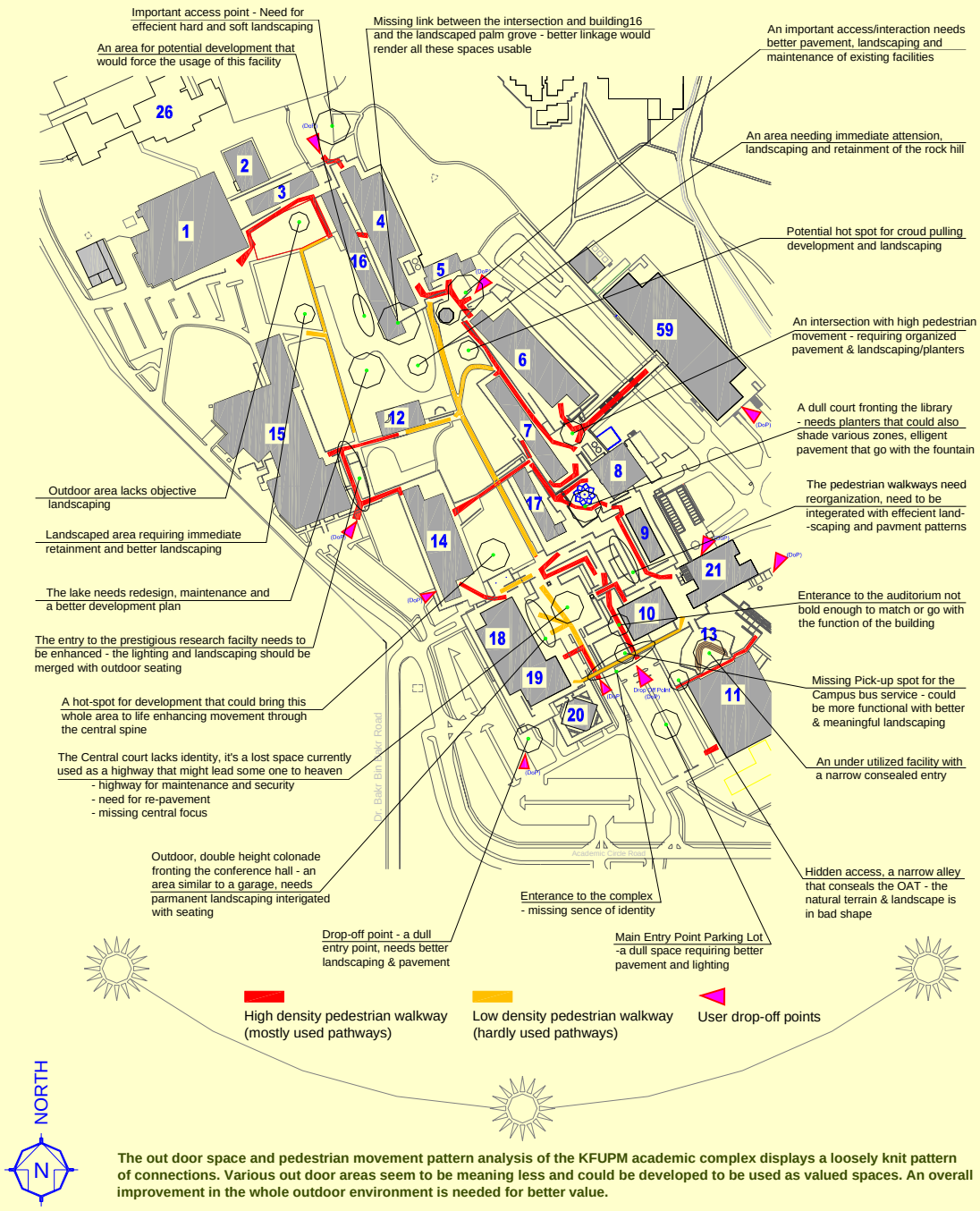
The out door space and pedestrian movement pattern analysis of the KFUPM academic complex depicts the lack of connections. Various out door areas seem to be meaning less and could be developed to be useful spaces. Need improvement in the whole outdoor environment is needed to create

CONCEPT:

The presentation in form of a collage addresses urban design issues and concerns that are evident from the analysis. Proposal for the enhancement of the overall KFUPM academic complex outdoors is presented with the basic design concepts described below

- Reclaim the lost spaces
- Identify & develop various hot- spot sthat would allow better movement, interaction & usage of the outdoors
- Enhance the appearance of the built environment such that an ambience of learning, sharing knowledge and valued university experience for the KFUPM community is created

SPATIAL ANALYSIS AND MOVEMENT PATTERN

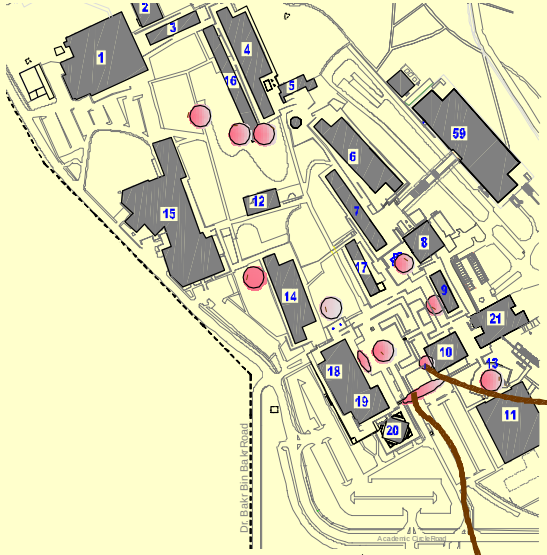


The out door space and pedestrian movement pattern analysis of the KFUPM academic complex displays a loosely knit pattern of connections. Various out door areas seem to be meaning less and could be developed to be used as valued spaces. An overall improvement in the whole outdoor environment is needed for better value.

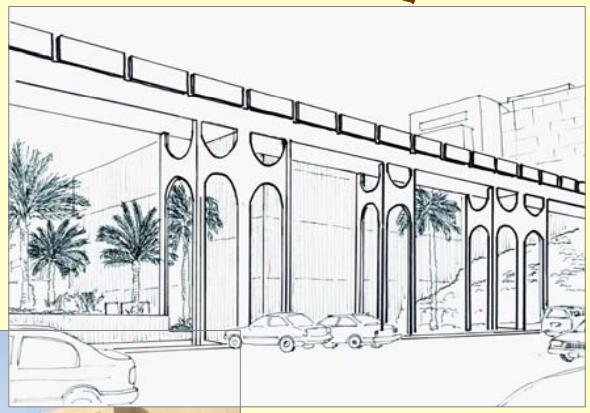
CONCEPT:

The presentation in form of a collage addresses urban design issues and concerns that are evident from the analysis. Proposal for the enhancement of the overall KFUPM academic complex outdoors is presented with the basic design concepts described below

- **Reclaim the lost spaces**
- **Identify & develop various hot-spots that would allow better movement, interaction & usage of the outdoors**
- **Enhance the appearance of the built environment such that an ambience of learning, sharing knowledge and valued university experience for the KFUPM community is created**



SITE PLAN OF THE KFUPM ACADEMIC BUILDING COMPLEX

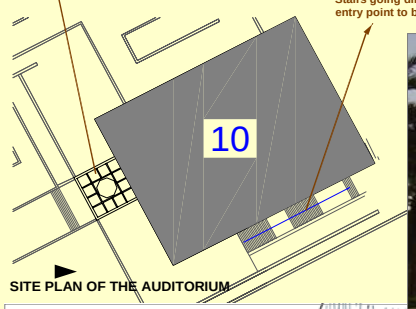


SKETCH OF THE ENTRY POINT FOOT BRIDGE WHICH COULD BE EMPHASIZED BY PROVIDING ARCHED ELEMENTS SIMILAR TO THE ONES USED IN THE COMPLEX - THE RESULT WOULD BE A SENSE OF ENCLOSURE FOR THE WHOLE COMPLEX, A GATEWAY THAT LEADS TO THE KFUPM ACADEMIC COMPLEX

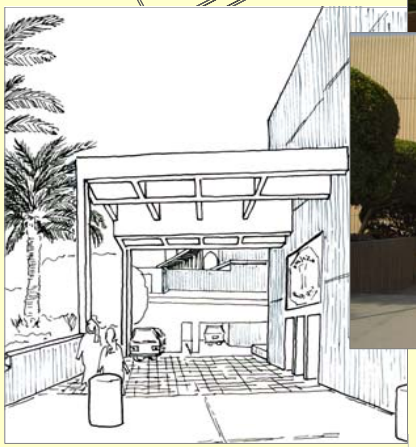
PICTURE OF THE EXISTING ENTRY POINT TO THE KFUPM COMPLEX AND THE FOOT BRIDGE

Pargola over the auditorium enterance and a flooring pattern emphasizes the enterance

Stairs going directly from the main entry point to building 21



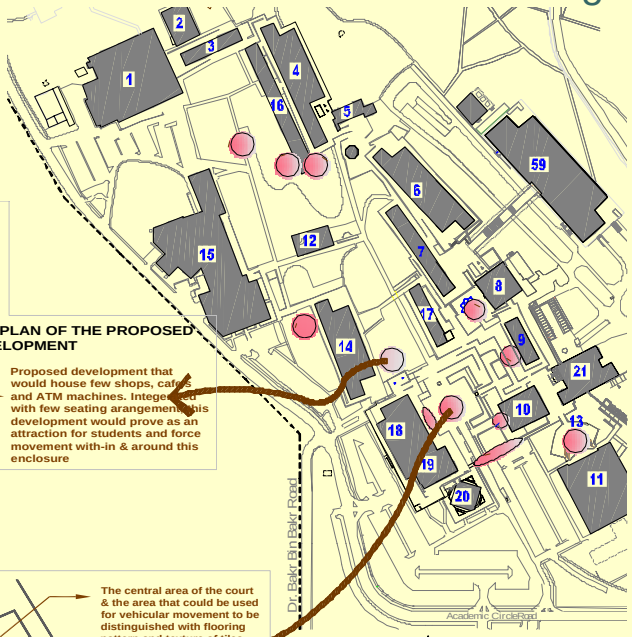
SITE PLAN OF THE AUDITORIUM



ORIOM
EMPHASIZED
OORING

THE MAIN ENTERANCE TO BUILDING 10, SCALE OF THE ENTERANCE DOES NOT PATCH WITH THE OVER ALL PROPORTION OF THE BUILDING

SKETCH OF THE AUDITORIOM ENTERANCE WHICH IS EMPHASIZED WITH A PARGOLA & FLOORING



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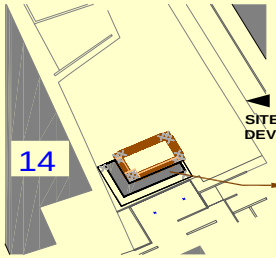
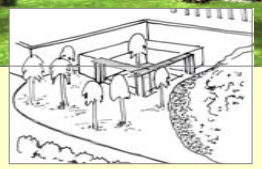


SITE PLAN OF THE PROPOSED DEVELOPMENT

Proposed development that would house few shops, cafe and ATM machines. Integrated with few seating arangements this development would prove as an attraction for students and force movement with-in & around this enclosure

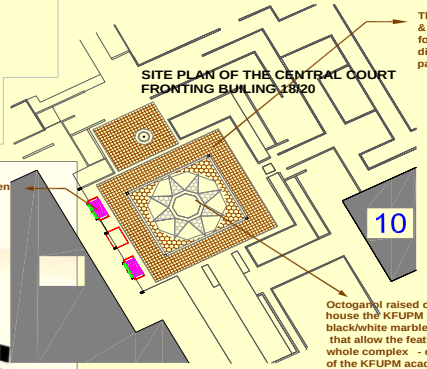
IMAGES OF THE PROPOSED DEVELOPMENT WITH AN OPEN COURTYARD CONCEPT SURROUNDED BY A WOODEN PARGOLA & SEATING SPREAD IN THE PALM GROVE



CONCEPTUAL SKETCH OF THE PROPOSED DEVELOPMENT

The central area of the court & the area that could be used for vehicular movement to be distinguished with flooring pattern and texture of tiles

SITE PLAN OF THE CENTRAL COURT FRONTING BUILING 18|20



Planters and seating fronting building 18 to replicate & balance the amount of green on the other side of the central court

Octogamal raised central feature which could house the KFUPM logo done in 3D with black/white marble & embedded with lights that allow the feature to be viewed from the whole complex - or could house a 3D model of the KFUPM academic complex done in marble

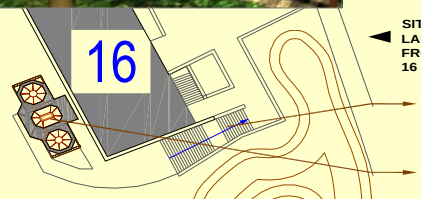
The facade of covered area fronting building 20 could be enhanced with the integeration of more elements, better detailing, pockets of seating and landscaping features that reflect and balance the green surrounding this area

IMAGES OF THE PROPOSED DESIGN CONCEPT THAT ALLOWS THE FACADE TO BE SLIGHTLY MORE DELICATE AND DETAILED

EXISTING FACADE OF THE AREA FRONTING BUILDING 20 WHICH IS LOOKS SIMILAR TO A FIRE STATION & IS MAINLY USED FOR PARKING AT PRESENT

PALM TREAS ARE INTEGERATED IN A MANNER THAT THEY BECOME DESIGN ELEMENTS

TOP VIEW OF THE PROPOSED CAFETERIA



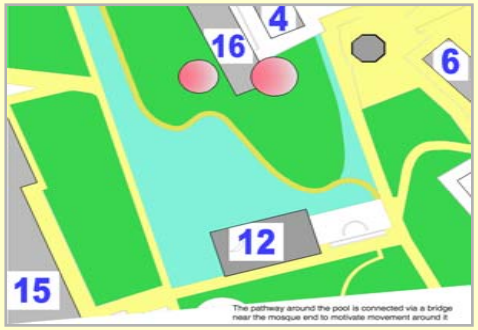
SITE PLAN OF THE LANDSCAPED AREA FRONTING BUILDING 16 AND THE LAKE

Staircase connecting the upper level to the lower landscaped area and the common cafereria

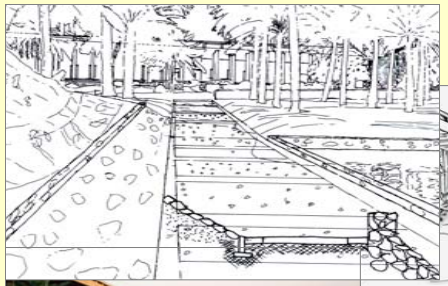
Proposedcoommon Cafeteria that would give the campus users a facility to relax, break and be calmed by the serene landscaped environment. The building has an indoor glazed seating and an outdoor seating area

A 3D VIEW OF THE PROPOSED CAFETERIA INTEGERATED WITH THE LANDSCAPED AREA - A SEMI OPEN SPACE ENCLOSED BY A WOODEN PERGOLA DEFINES A FORMAL OUTDOOR SEATING AREA

THE BUILDING IS DESIGNED SUCH THAT NONE OF THE EXISTING PALM TREES ARE UPROOTED OR NEED RELOCATION

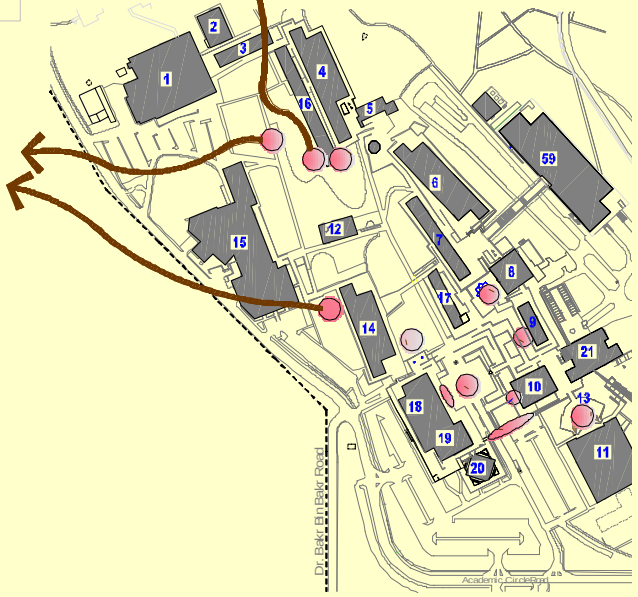


SKETCH SHOWING THE PROPOSED FINISHING OF THE PATHWAY PAVEMENT AND SLOPING TERRAIN AROUND THE PATHWAY. NATRUAL STONE CAN BE USED AS A RETAINING ELEMENT WHICH WILL VERY WELL MERGE WITH THE SURROUNDINGS. SAME COULD BE USED AS FINISHING FOR THE ARTIFICIAL LAKE FRONTING R.I. WITH THE BASE WATER PROOFED AND THEN FINISHED WITH NATURAL STONE IN A MILD SLOPE

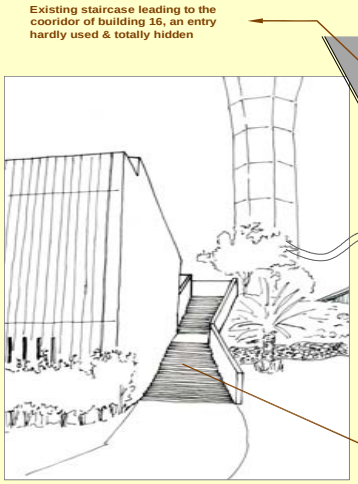


THE VACANT ROCKY AREA NEXT TO BUILDING 14 CAN BE PLANTED WITH PALM TREES AND OTHER PLANTATION - COULD BE USED AS AN OUTDOOR DISPLAY OF TRADITIONAL SCIENCE ITEMS, POTTERY AND OTHER LANDSCAPING FEATURES

AN ABANDONED ROCKY TERRAIN NEXT TO BUILDING 14 - THIS AREA IS IN NEED OF A PURPOSE, A THEME

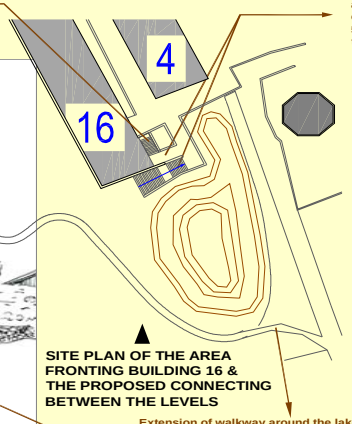


SITE PLAN OF THE KFUPM ACADEMIC BUILDING COMPLEX



SKETCH OF THE PROPOSED CONNECTING BETWEEN THE UPPER LEVELS CONNECTING ACADEMIC BUILDINGS TO THE PARK

Existing staircase leading to the cooridor of building 16, an entry hardly used & totally hidden



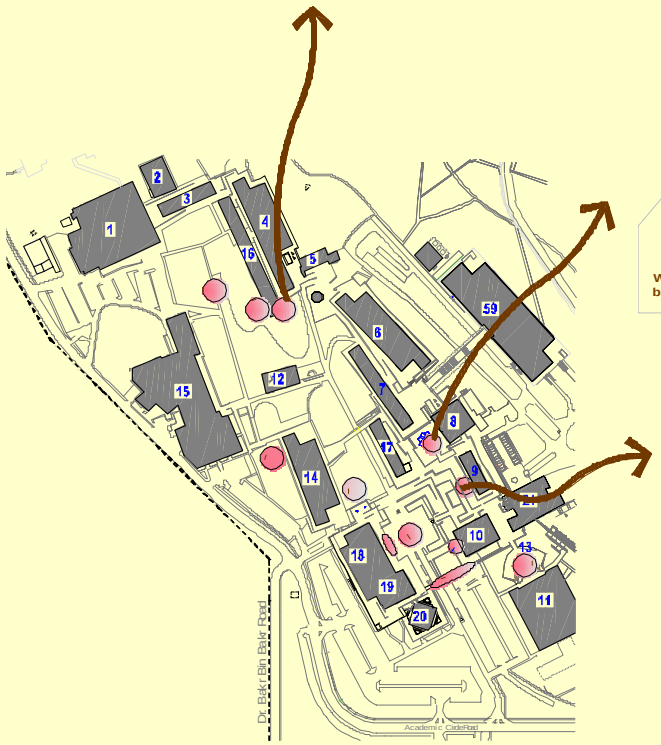
SITE PLAN OF THE AREA FRONTING BUILDING 16 & THE PROPOSED CONNECTING BETWEEN THE LEVELS

The proposed external stairs would be an efficient link unifying the whole of this zone to the main central axis and the areas on the lower levels

Extension of walkway around the lake conecting other side towards the mosque

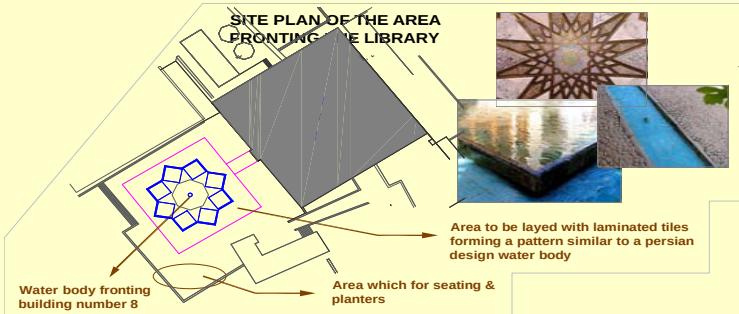
The proposed external stairs similar to the ones that are provided in various locations around the KFUPM campus, linking the upper level of highly used building 5 & 4 to the landscaped park and other facilities on this side of the academic complex

IMAGE OF THE EXISTING EDGE OF BUILDING 16 SHOWING THE LOCATION OF THE PROPOSED LINKAGE FROM THE LANDSCAPED PARK TO THE ACADEMIC BUILDINGS ON THE UPPER LEVEL



SITE PLAN OF THE KFUPMACADEMIC BUILDING COMPLEX

SITE PLAN OF THE AREA FRONTING THE LIBRARY



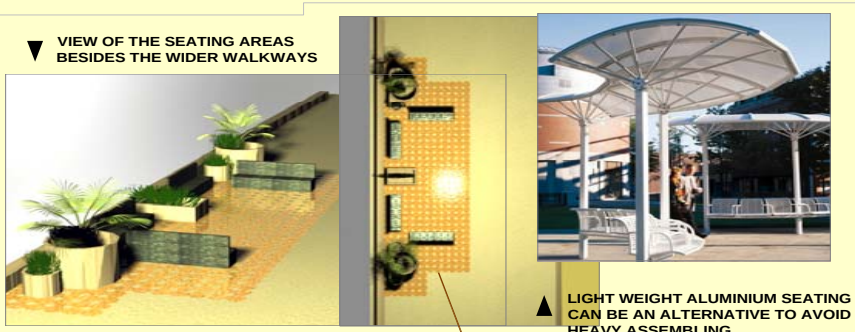
Area to be layed with laminated tiles forming a pattern similar to a persian design water body

Water body fronting building number 8

Area which for seating & planters

IMAGES OF A WATER BODY IN A TYPICAL PERSIAN GARDEN - THE SAME CONCEPT OF GEOMETRY HIGHLIGHED WITH LAMINATED FLOOR TILES CAN BE USED IN THIS AREA WHICH WOULD ALSO DEFINE THE WALKWAY & THE FOUNTAIN AREA

VIEW OF THE SEATING AREAS BESIDES THE WIDER WALKWAYS



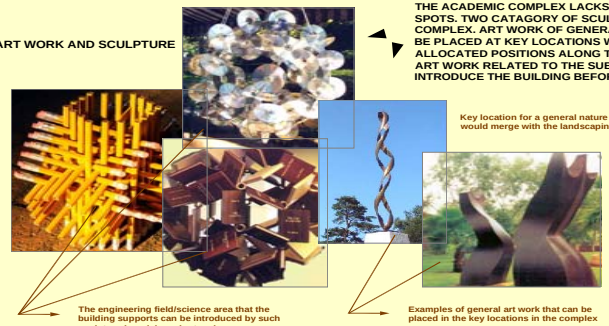
LIGHT WEIGHT ALUMINIUM SEATING CAN BE AN ALTERNATIVE TO AVOID HEAVY ASSEMBLING

PLAN OF THE SEATING AREAS CARVED OUT FROM THE EXISTING WIDER WALKWAYS

The large walkways and pedestrian walkways that are much wider then required, like the ones fronting bldg.9 can be integerated with seating areas that would be carved out using a different flooring pattern/material and enclosed with planters

ART WORK AND SCULPTURE

THE ACADEMIC COMPLEX LACKS ART WORK AND SCULPTURES THAT CREATE INTERESTING SPOTS. TWO CATAGORY OF SCULPTURES CAN BE PLACED AT KEY LOCATIONS WITHIN THE COMPLEX. ART WORK OF GENERAL NATURE MADE OF STONE, CAST IRON, STEEL ETC. CAN BE PLACED AT KEY LOCATIONS WHILE SCULPTURES RELATED TO ACADEMICS COULD BE ALLOCATED POSITIONS ALONG THE MOVEMENTS BATHS TO BUILDINGS. PLACEMENT OF ART WORK RELATED TO THE SUBJECT THE BUILDING IS RELATED TO WOULD PHYSICALLY INTRODUCE THE BUILDING BEFORE ONE ENTERS THE ENCLOSURE.



Key location for a general nature art work that would merge with the landscaping

Various locations that could be ideal spots for subject/general nature art work

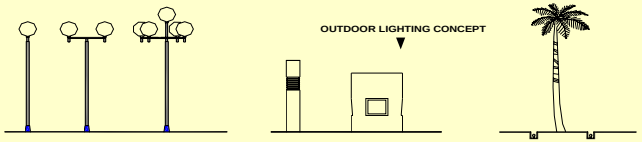
The engineering field/science area that the building supports can be introduced by such sculptured models and artwork

Examples of general art work that can be placed in the key locations in the complex

OUTDOOR SEATING INTEGERATED WITH THE LANDSCAPE

Integeration of light weight seating in the landscape

OUTDOOR LIGHTING CONCEPT



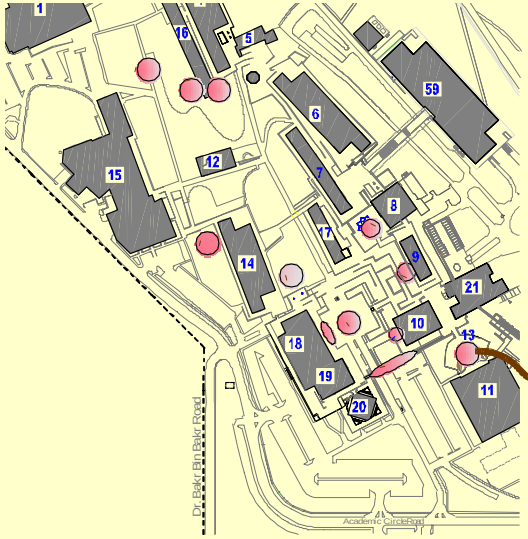
Exterior post lighting with single and multiple dome lights composed and placed according to spatial hierarcy of proximity to buildings
- Single dome lights to be placed along all the exposed pathways

Outdoor low post lighting and the pre-fabricated low height light blocks to be placed on all the landscaped e dges & pedestrian walkways

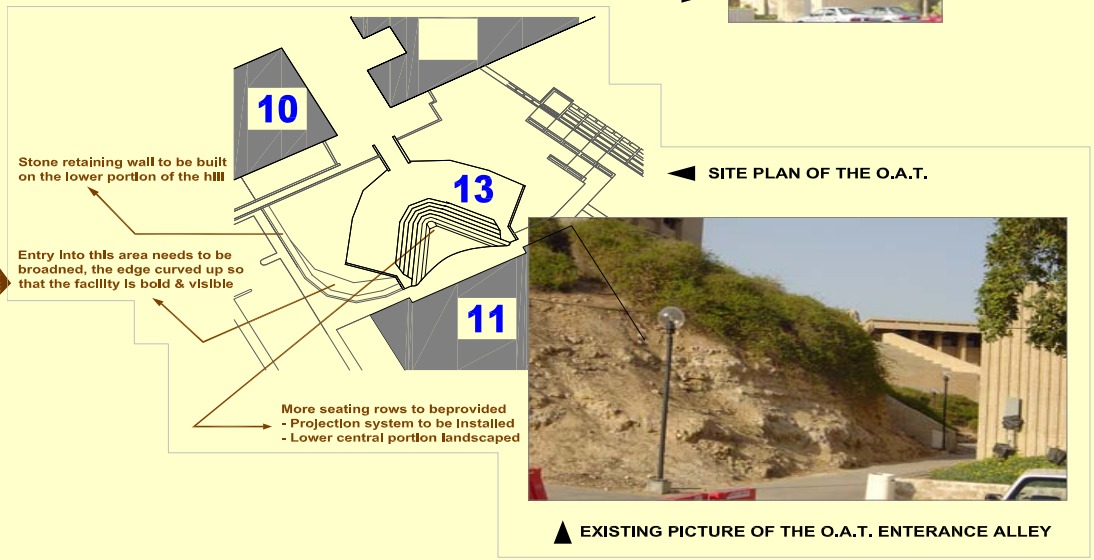
Below grade spot lights around all the palm trees to dimly lighten up the landscape & be a prominant feature

FOR EASY LOCATION AND BETTER MOVEMENT OF VISITORS ALONG THE ACADEMIC COMPLEX, SIGNAGES AND SITE MAPE OF VARIOUS SCALE CAN BE PLACED ON THE WALLS OF VARIOUS BUILDINGS. TO KEEP UP WITH THE COLOR AND TEXTURE OF THE BUILDINGS, THE SITE MAP WOULD BE COLORED IN BLACK & WHITE ON 18 MM BEWEL EDGED GLASS SHEETS AND PINNED WITH EXPOSED STEEL SCREWS

KFUPM site map painted in black & white on 18 mm glass sheets and pinned with exposed steel screws



SITE PLAN OF THE KFUPM ACADEMIC BUILDING COMPLEX



SITE PLAN OF THE O.A.T.

EXISTING PICTURE OF THE O.A.T. ENTERANCE ALLEY

Thank you, have a good day!!