

IBRAHIM A. ABDELNASSER



ARCHITECTURAL ENGINEER | ASSOCIATE LEVEL

ARCHITECTURE

LANDSCAPE

ENVIROMENTAL STUDIES

HOUSING

WORKING DWG. +

PORTFOLIO



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IBRAHIM A. ABDELNASSER



ARCHITECTURAL ENGINEER | ASSOCIATE LEVEL

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WORK EXPERIENCE

ARCHITECTURAL ENGINEER | NOV 2022 - PRESENT

KTCB | KUWAIT CITY

- Provided technical design expertise, aligning project details with architectural standards.
- Coordinated compliance with Kuwait Fire Brigade regulations and solved design challenges.
- Contributed to material selection, landscape design, and technical documentation.

SITE ARCHITECT | SEP 2020 - JAN 2021

CREATORS GROUP | CAIRO, EGYPT

- Gained over 1,600 hours of hands-on experience supervising fit-out works for a 100,000 m² project.
- Conducted quantity surveying and managed on-site technical coordination.

EDUCATION

- Bachelor's Degree in Architecture Engineering and Environmental Design**
Arab Academy for Science and Technology (AAST) | Cairo 2020
GPA: 2.7, Graduation Project Grade: B+
- IGCSE** (International General Certificate of Secondary Education)
International School of Pakistan | Kuwait 2014

SKILLS and Tools

Professional level



Intermediate level



Basic level



I graduated with a degree in Architecture Engineering and Environmental Design from AAST. I have 2 years of experience as a Technical Design Architect in Kuwait, focusing on design coordination, landscape design, and material selection. I also have over 1,600 hours of hands-on site experience from a 5-month role as a Site Architect in a fit-out project, equal to one year of standard work. And completed a 13-month compulsory military service.

Currently working at Kuwait Technical Consulting Bureau (KTCB), I am building my expertise and aiming to grow in the field of BIM. I am looking for opportunities that challenge my skills and help me gain more experience in architecture and design.



CERTIFICATION & TRAINING

- KSE** Associate Member
- Egyptian Engineers Syndicate** Member
- RIBA** Part I
- LEED** Green Associate (GA) Certification
In Progress
- REVIT** training course
In progress
- Summer School:** Design for Existing Buildings in Contemporary Cities.
Politecnico di Milano, Italy (2019)
- Internship:** Dar Al-Mosawy for Engineering Consultancy (**DAR MEC**).
Kuwait (1 month) (2017)

LEGAL STATUS

- Transferrable Residency (**Article 18**)
- Valid **Driving License** and Owns a **Car**
- Passport Valid Until October 2030
- All documents are available upon request

MUBARAK AL-ABDULLAH JOINT COMMAND AND STAFF COLLEGE

KTCB

SABHAN, MUBARAKAL KABEER, KUWAIT

SCHEDULING LANDSCAPE COORDINATION MATERIAL SELECTION KFF WORKING DWG. +

PROGRAMS USED



ARCHITECTURAL ENGINEER | KTCB | NOV 2022 - PRESENT

The Mubarak Al Abdullah Joint Command and Staff College is an institution of the highest caliber, focusing on the technologically advanced future of Kuwait's military and global defense affairs. A campus, over 93.4 hectares, comprised of educational and cultural buildings is tied together by an atrium. The College will provide a world-class educational experience for officers with an emphasis on cross-disciplinary collaboration and equipped to serve 300 to 500 officers yearly.

Inspired with the ideas found in Kuwaiti heritage culture, fortification and souks, the exterior architecture a monolithic defensibility in modern design.

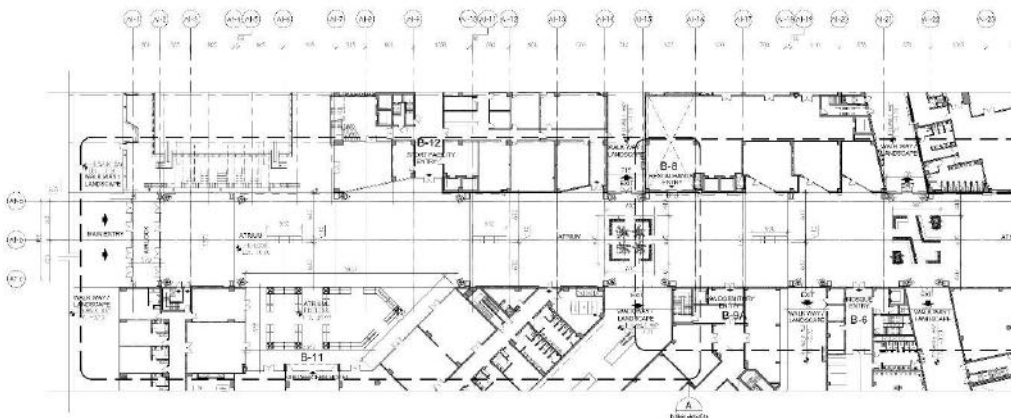
The Ministry of Defense and Military Engineering Projects commissioned Kuwait Technical consulting bureau and Langdon Wilson international (USA) to undertake the study and design. The purpose of the college is to create a leadership that embodies Kuwaiti ideal and talent to stimulate and shape the future of Kuwait's military.

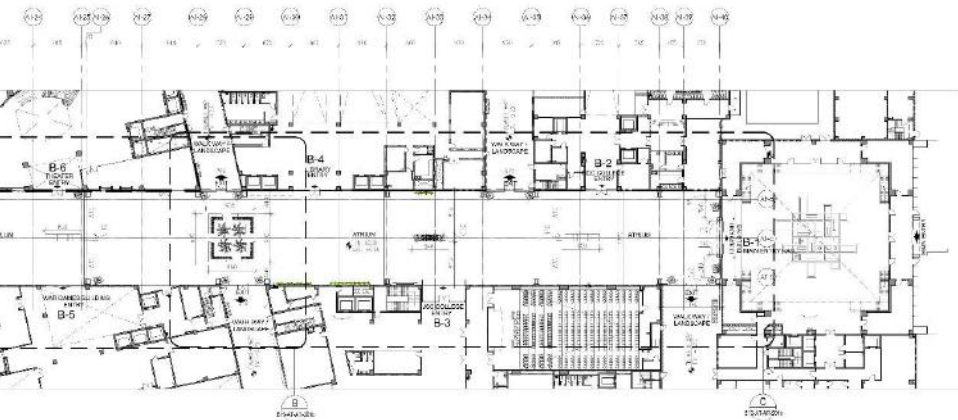
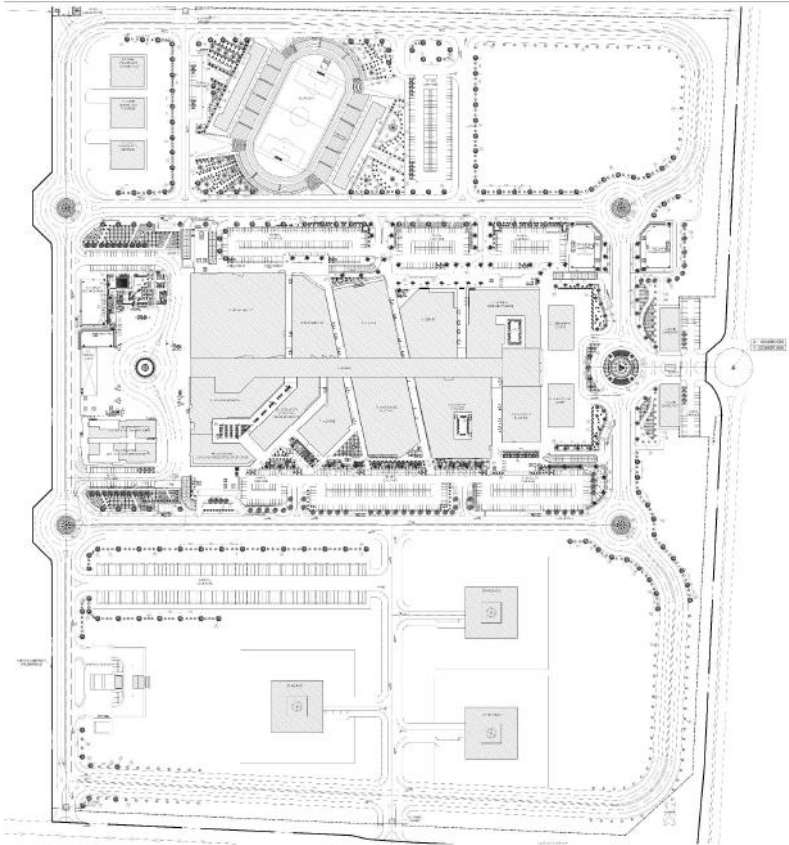


My role in this project consisted of but not limited to:

- **Technical Design Expertise**
Provided technical design expertise, aligning project details with architectural standards and aesthetic objectives
- **Cross-Department Compliance Coordination**
Collaborated with HVAC and structural teams to integrate Kuwait Fire Brigade regulations. Solved complex design challenges with innovative approaches, balancing aesthetics and functionality.
- **Material Selection and Finishing Standards**
Led material selection and finishing schedules under supervision, ensuring alignment with space requirements and client expectations, with a focus on quality and cost.
- **Lead Contributor in Landscape Design**
Served as the primary contributor to landscape design, developing concepts with minimal supervision to meet aesthetic and functional goals while closely coordinating with client needs. Collaborated with infrastructure and irrigation departments to integrate landscape elements seamlessly. Produced technical drawings, BOQs, and specifications for interior and exterior landscape design, ensuring thorough documentation.
- **Effective Cross-Department Communication**
Utilized strong communication skills to facilitate clear, effective collaboration across departments.
- **Team Supervision and Project Standards**
Oversaw team members to ensure alignment with project objectives and adherence to architectural standards.
- **Client Interaction and Feedback Integration**
Regularly engaged in client meetings, presenting design proposals and incorporating feedback to align with the project vision.
- **Detailed Window Scheduling**
Prepared comprehensive window schedules, ensuring consistency across varied building functions.

Through this project, I expanded my expertise in technical design, landscape design, and project approvals and actively gaining an understanding of local fire codes. My problem-solving skills were essential in coordinating with multiple departments to uphold the project's visual and regulatory standards.





SIXTH OF OCTOBER ELECTRONIC SPORTS COMPLEX

AAST

EL WAHAAT RD., 6TH OF OCTOBER, GIZA, EGYPT

TYPE: DIGITAL GAMMING COMPLEX

ENTERTAINMENT - SPORTS - HOSITALITY

GRADE B+

PROGRAMS USED



GRADUATION PROJECT | AAST | JUNE 2020

As the e-sports industry gets bigger and more money is invested into it and more individuals started playing games as a career it starts to look more like regular sports. so, a new type of building has to be created to fulfill the needs of these players and their teams.

on the other side the place where tournaments are held nowadays are not designed for this purpose. An arena that is especially designed for this use had to also be included.

Finally, the game developing studio is the brain of the building where games are produced to be and released in an event in the arena and is the owner of the games that will be played in the tournaments.

CHALLENGE: A complex combining gaming companies to the public with respect to the needs of both.

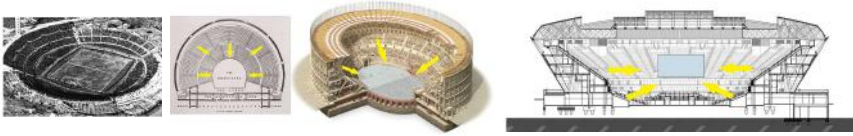
VISION: A Purpose designed building for game development and game Practice and competition.

PROJECT COMPONENTS

E-SPORTS CENTER



ARENA



GAME DEVELOPING STUDIO



CONCEPT GENERATION



Pixes

Same size Squareish 2D

The More The higher Resolution Each with different colour

Voxels

Each with different colour Cuboids 3D

Same size The More The higher Resolution

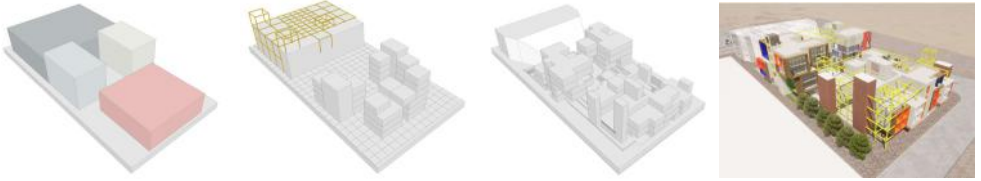
Polygons

Different size Triangular

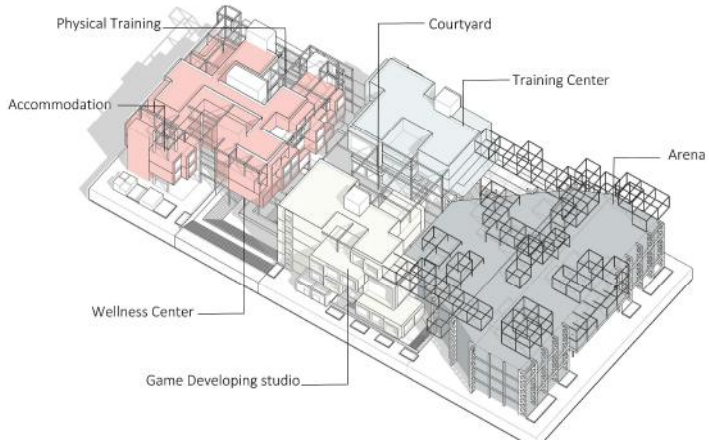
2D Shapes Forming 3d shape The More The higher Resolution

MODULARITY

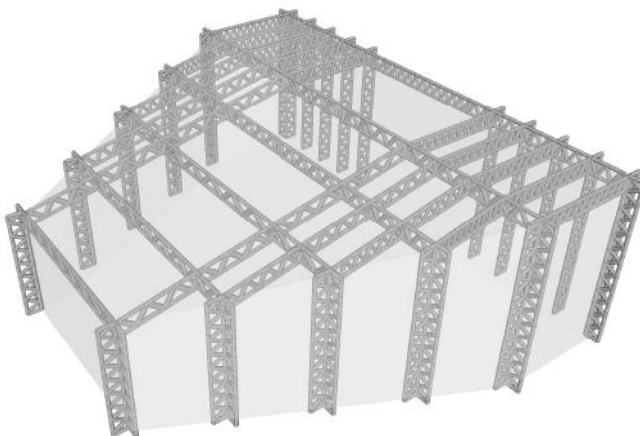
FROM GENERATION



ZONING

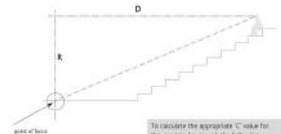


STRUCTURE AND SIGHT-LINE ANALYSIS



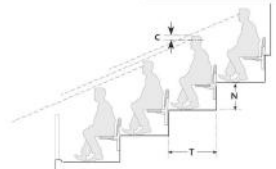
Key to Diagram

- C = the 'C' value
- D = the horizontal distance from the eye to the point of focus
- W = the observer height
- R = the vertical height to the point of focus
- T = the seating row depth



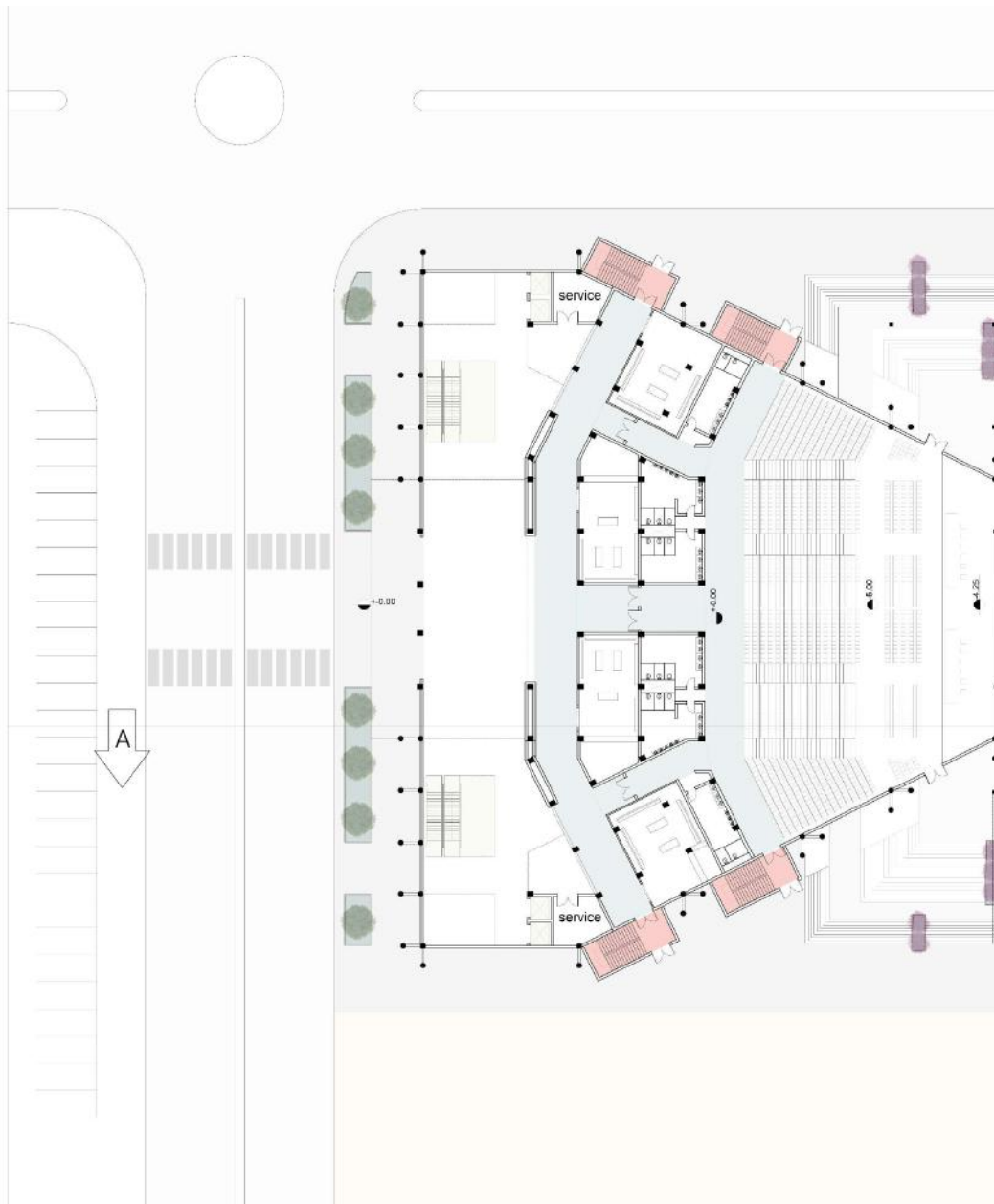
point of focus
Specify the search routine, or selection of seating rows, in boundary of area of activity

To calculate the appropriate 'C' value for the spot to be viewed, the following formula applies:
 $C = \frac{D(D+W)}{D+T}$

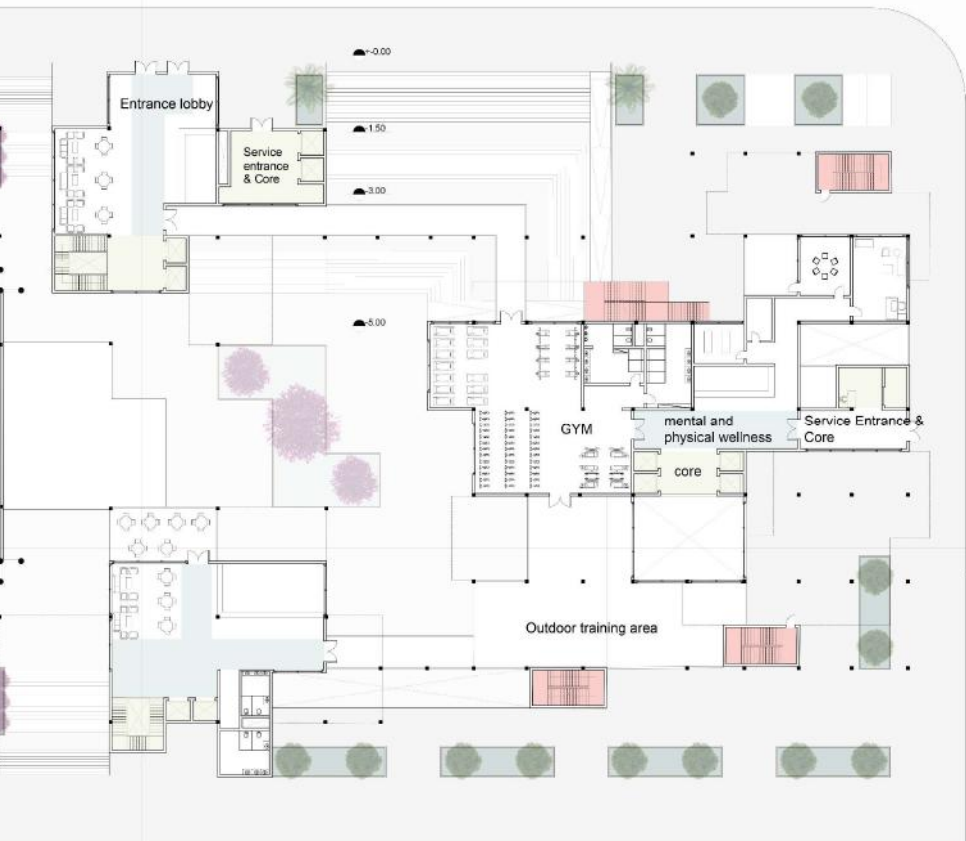




GROUND FLOOR PLAN



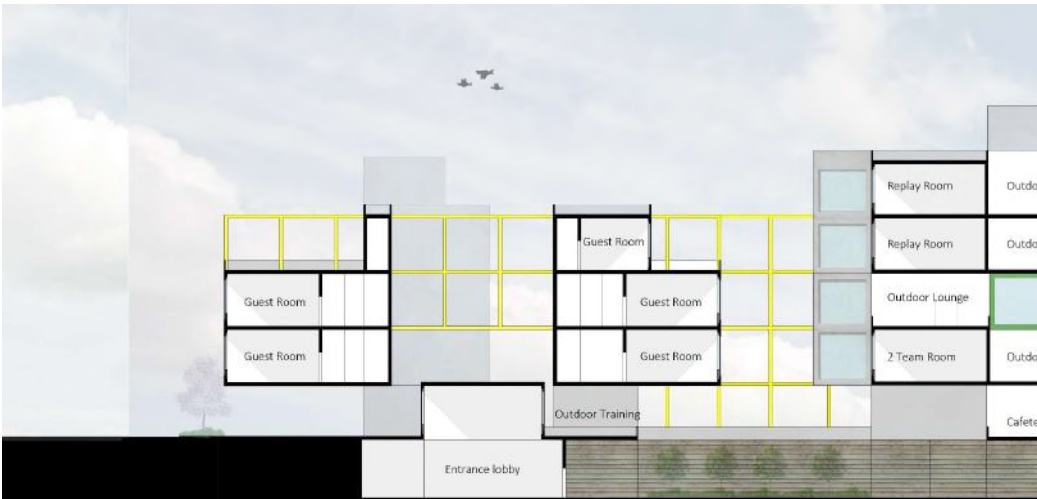
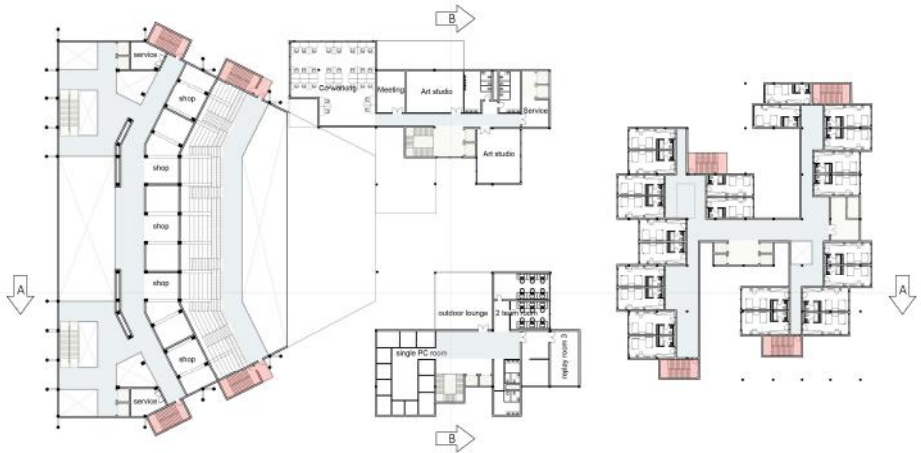
B

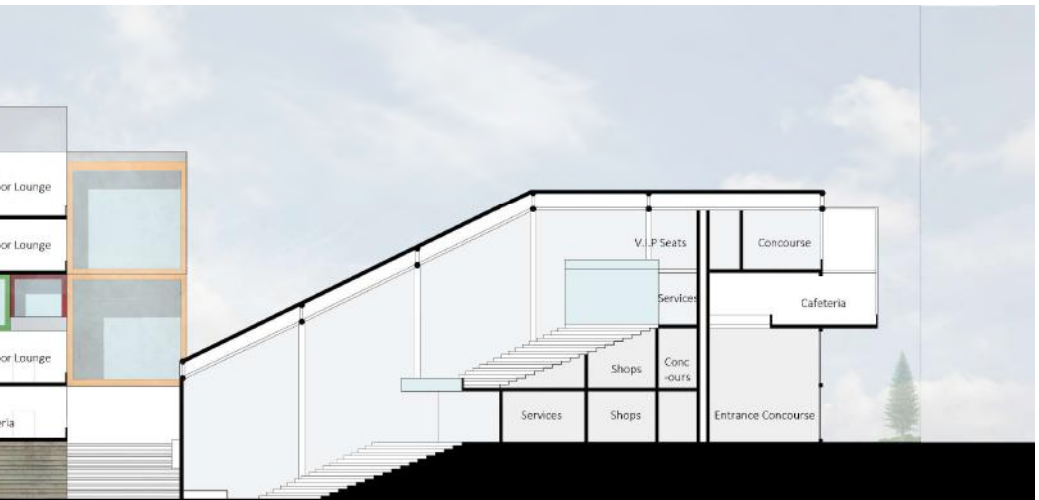
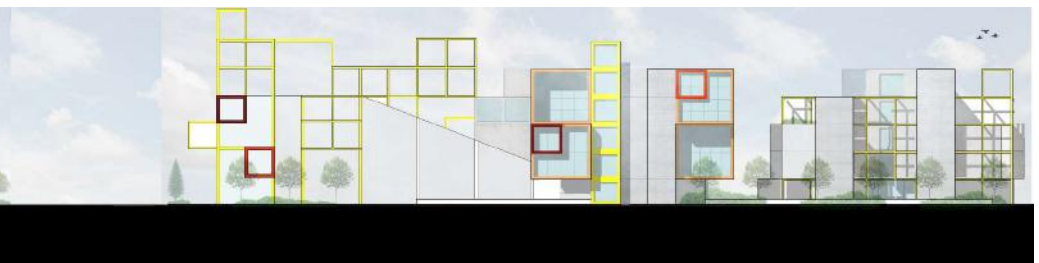
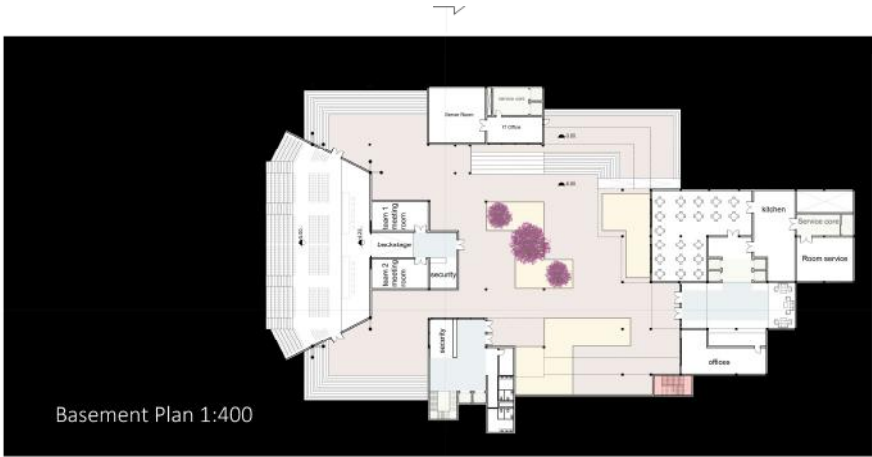


A

B

ARCHITECTURE DRAWINGS (PLANS – ELEVATIONS – SECTIONS)







ELEVATION





NEW CAIRO VANS HEADQUARTERS

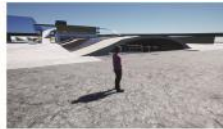
AAST

NORTHEN 90TH STREET, 5TH SETTLEMENT, NEW CAIRO, EGYPT

TYPE: FASION BRAND HEADQUARTERS

RETAIL - ADMINSTRATIVE - SPORTS

PROGRAMS USED



VANS

"OFF THE WALL"

ARCHITECTURE DESIGN V | AAST | JANUARY 2019



The building should reflect the main believe of the brand which is the focus on individuality of this brand products and how did the customers and employees work effect the company in each of the four pillars. To feel in his place: ex: wither you want to walk or skate inside the building you will be able to do either.

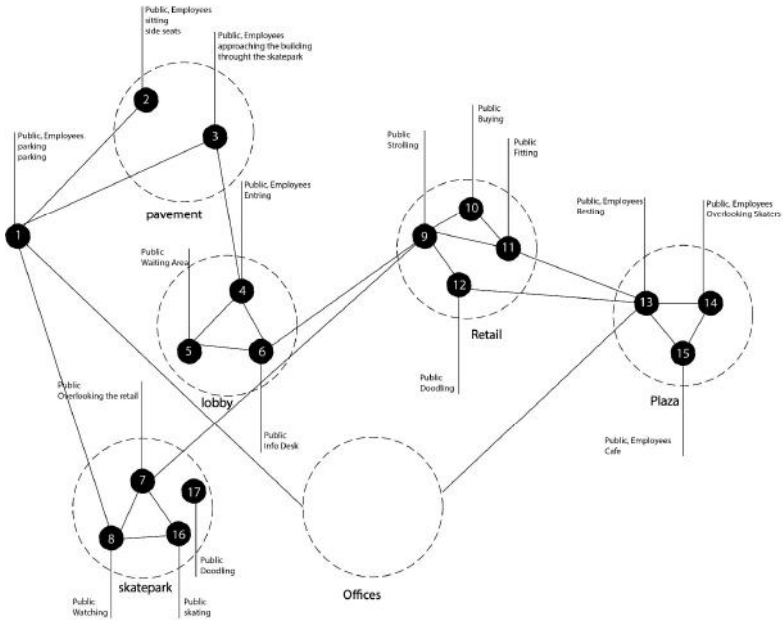
How will this affect the building?

Letting the people enter and use the building in their own way will affect the way they perceive the building approaching the building at different speeds make the building look different therefore will give different experience to the user: using a skateboard on a separate lane other than the pedestrian while this lane will be on a higher level.

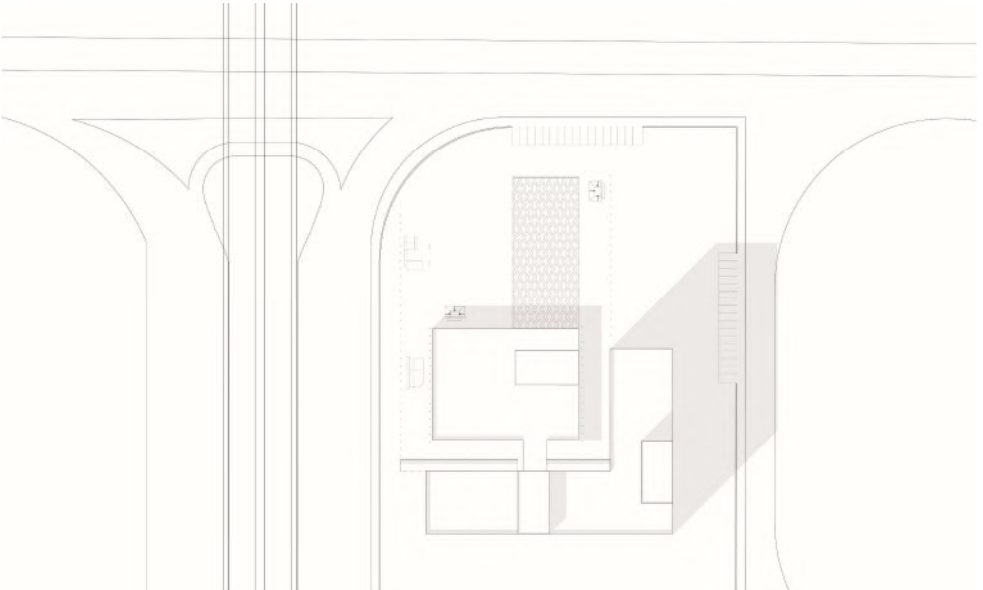
Letting the customers affect the building by doodling on the walls but involving technology in the equation as the doodling will be visible on the exterior this is the way the user



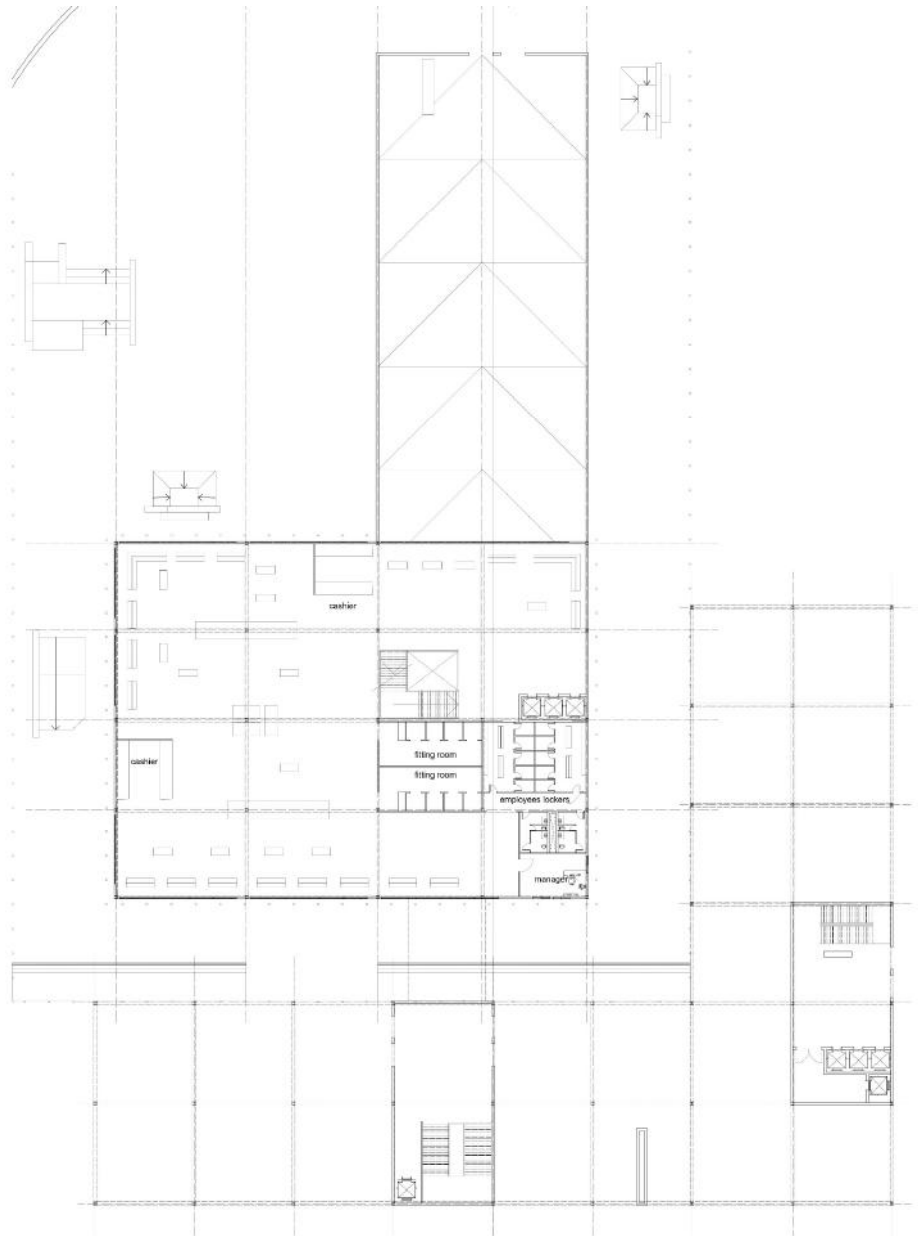
DESIGN NARRATIVE



LAYOUT

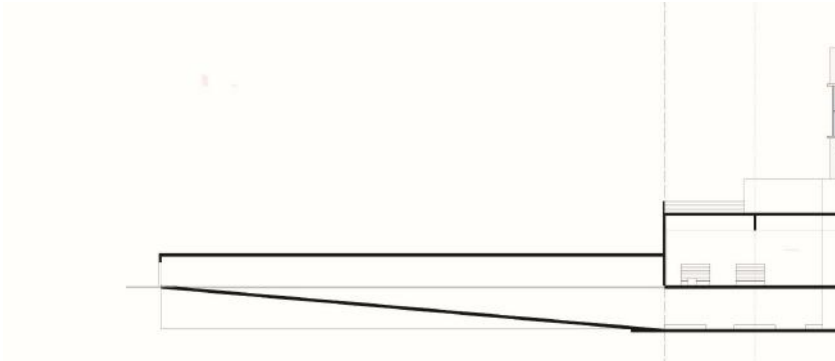
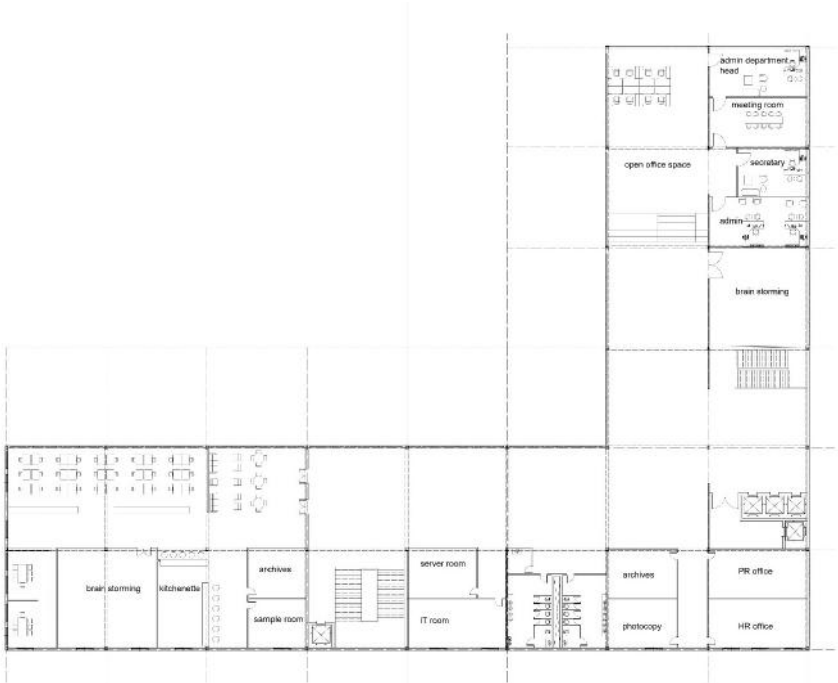


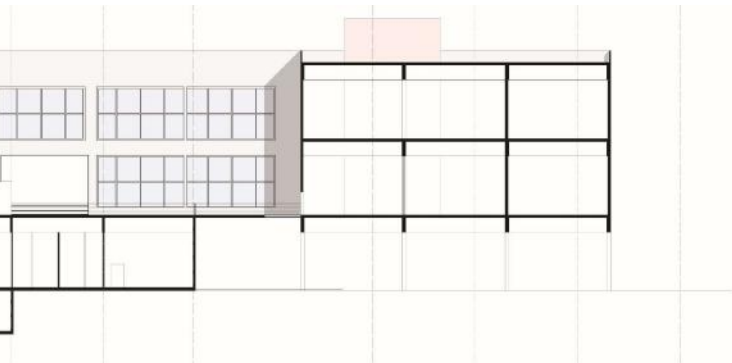
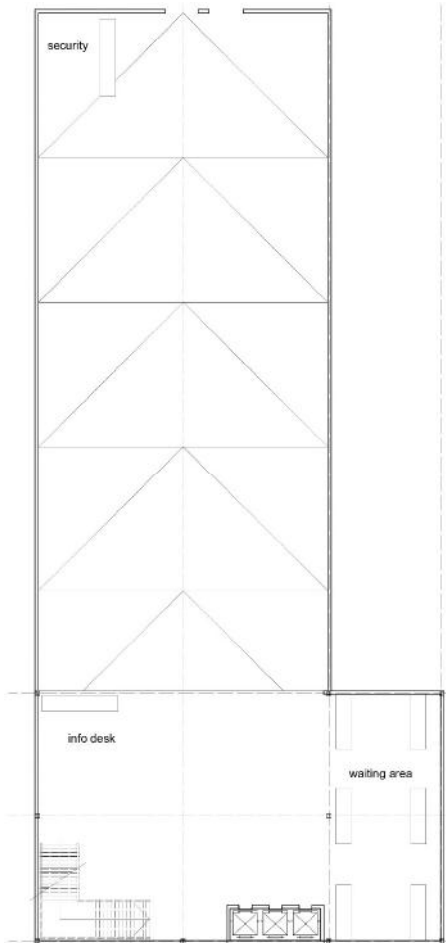
ARCHITECTURE DRAWINGS (GF. PLAN – ELEVATIONS)





ARCHITECTURE DRAWINGS (PLANS – SECTION)





NEW CAIRO CONVENTION HOTEL

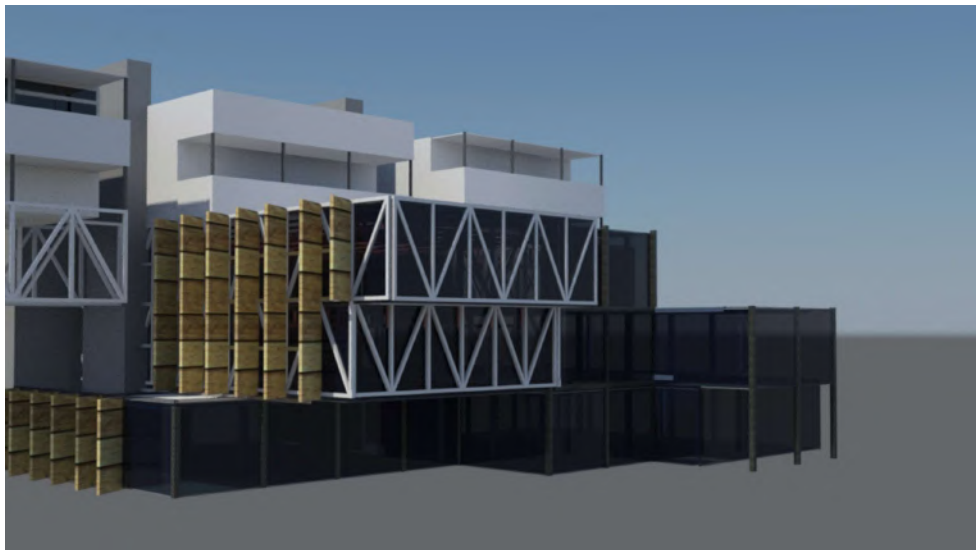
AAST

SOUTHERN 90TH STREET, 5TH SETTLEMENT, NEW CAIRO, EGYPT

TYPE: HOTEL WITH CONVENTION CENTER

HOSPITALITY

PROGRAMS USED



ARCHITECTURE DESIGN III | AAST | JANUARY 2018



The building should reflect the main believe of the brand which is the focus on individuality of this brand products and how did the customers and employees work effect the company in each of the four pillars. To feel in his place: ex: wither you want to walk or skate inside the building you will be able to do either. The aim of this design course is to extract a structural concept. This studio had to unite the concept inspired by the phrase “Power in Unity”. This project concept was extracted from the ants, how they unite to overcome their weakness and fragility.

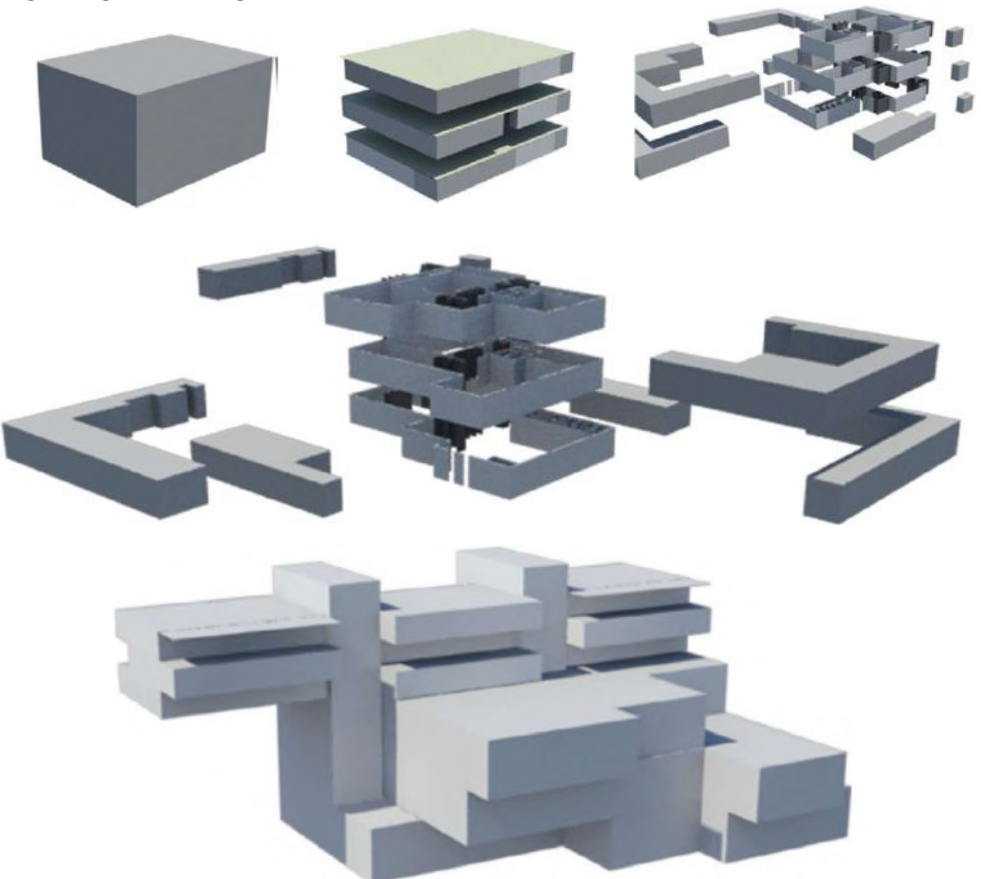


CONCEPT GENERATION

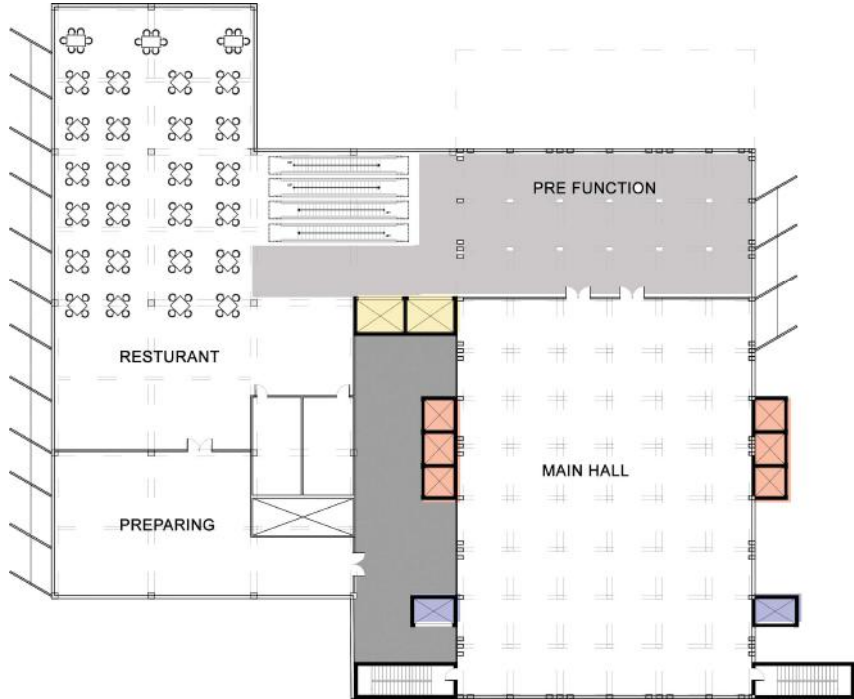


Modularity from ants in which every ant represents a module..

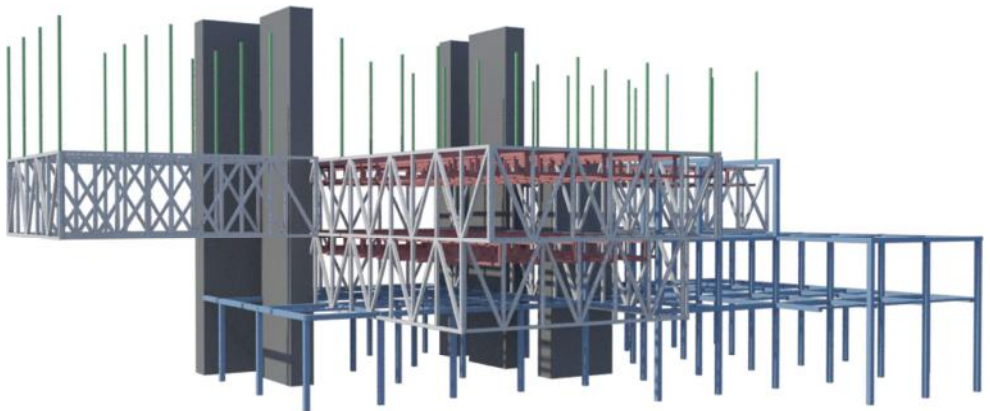
FORM GENERATION

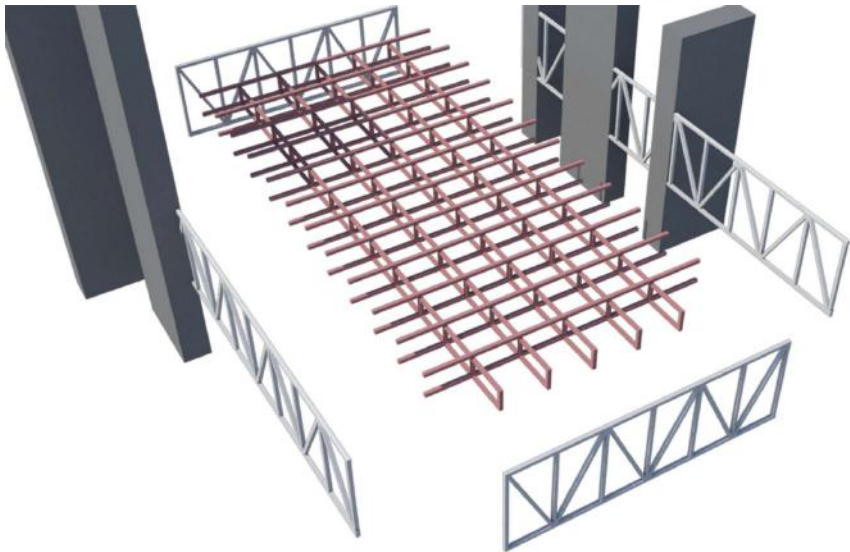
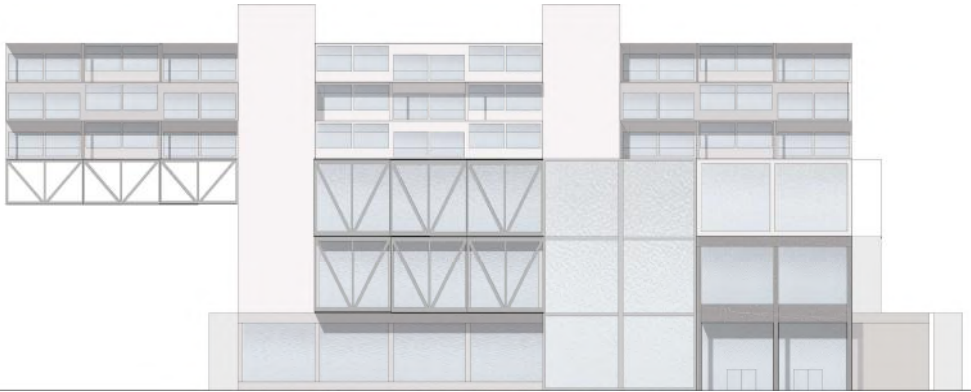
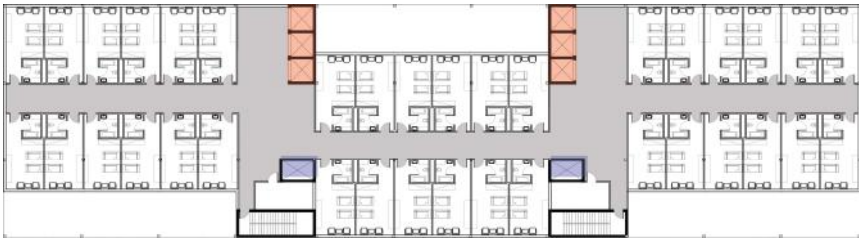


ARCHITECTURE DRAWINGS (PLANS -ELEVATION)



STRUCTURAL STUDIES





NEW ADMINISTRATIVE CAPITAL THE RETREAT COMPOUND

AAST

NEW ADMINISTRATIVE CAPITAL, EGYPT

TYPE: HOUSING

GATED COMMUNITY

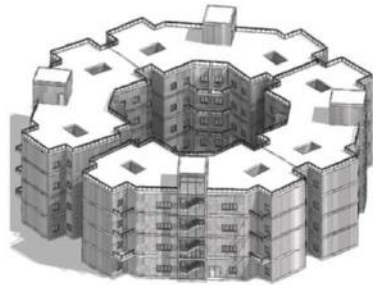
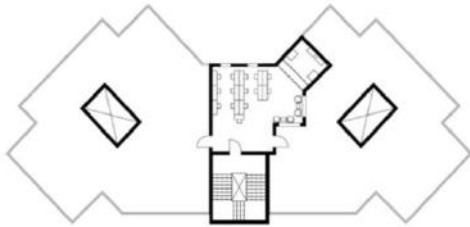
PROGRAMS USED



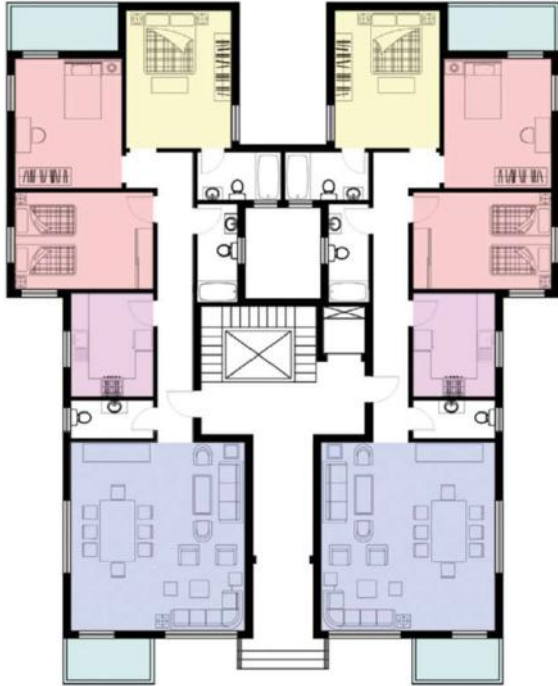
SITE PLANING AND HOUSING | AAST | JANUARY 2019

“ The Aim of this project is to house three different economic classes (Economy - middle - Upper middle) with respect to every class needs in a hospitable environment without isolating any class or the compound itself with fences or gates. ”

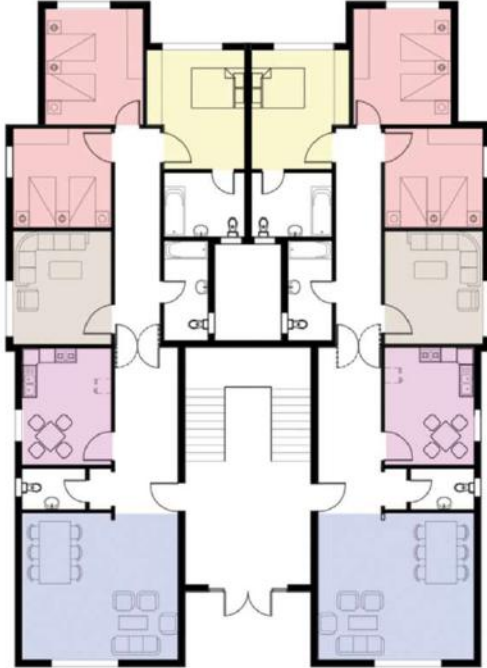
ECONOMIC APARTMENTS ARCHITECTURE DRAWINGS



UPPER-MIDDLE APPARTMENTS ARCHITECTURE DRAWINGS



MIDDLE APPARTMENTS ARCHITECTURE DRAWINGS



CAIRO ECOLOGICAL OFFICE BUILDING

AAST

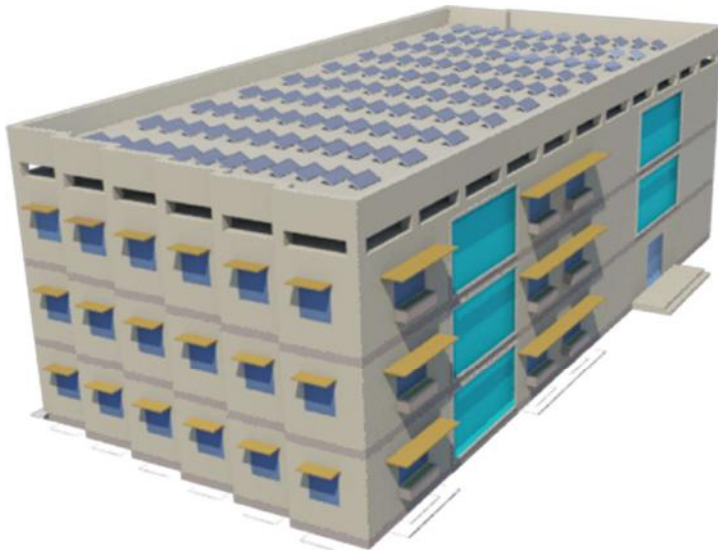
CAIRO, EGYPT

TYPE: OFFICE BUILDING

ADMINISTRATIVE

PROGRAMS USED

A Ps 3



ENVIRONMENTAL DESIGN | AAST | JUNE 2017

The aim of the building is to reduce the use of energy as much as possible without having negative impact on the shape of the building or its main function.

STRATEGIES

Orientation

- Rotating the building so the north and south gets the largest façade North and south facades are easier to control regarding solar radiation
- Reducing surface area by making the building of regular shapes

Form

- Self shading building from east
- Increase room height to human scale

Roof

- Double roof
- solar panels

Window

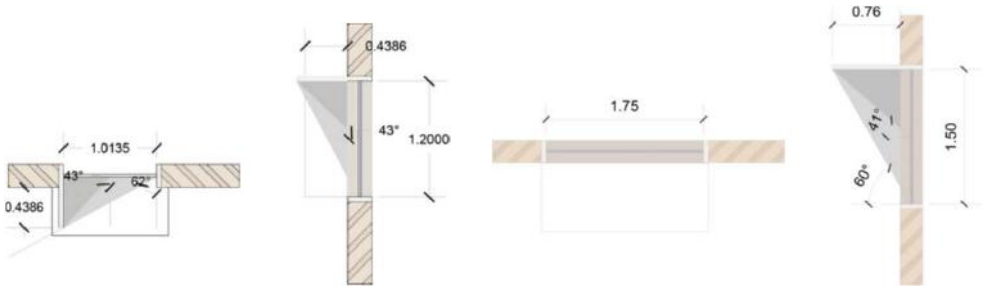
- Double glazed windows on all facades
- Horizontal Shading devices in south facade
- Combined shading devices in east and west facades

Wall

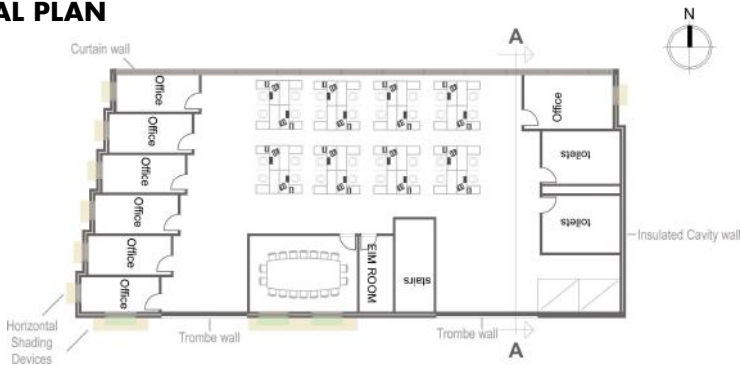
- Insulated Cavity wall
- Trombe wall
- Curtain wall in North for maximum natural light without direct sun light
- Light colour rough texture wall



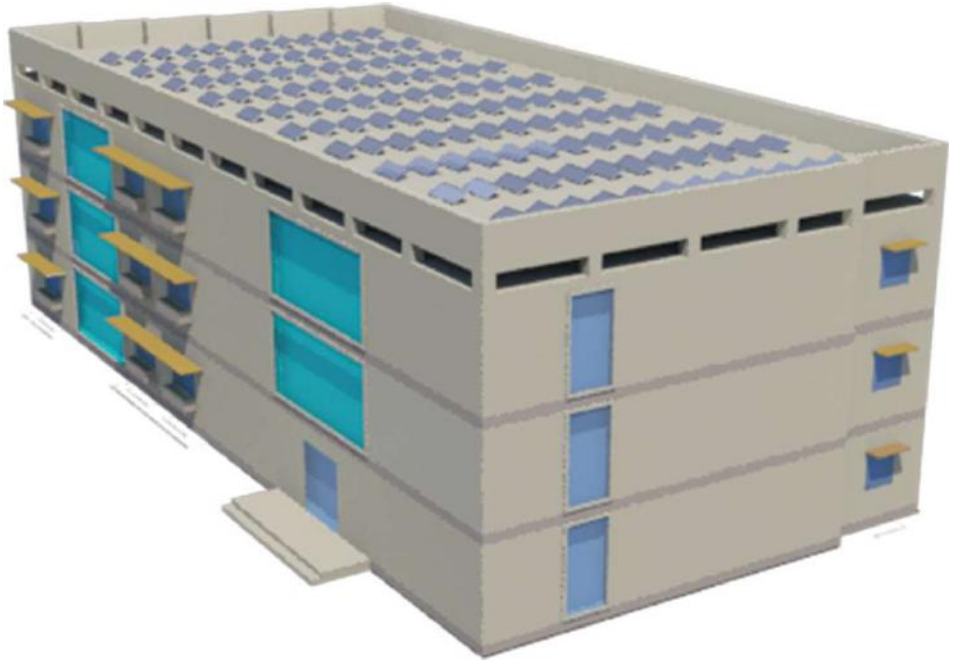
SHADING DEVICES STUDIES



TYPICAL PLAN



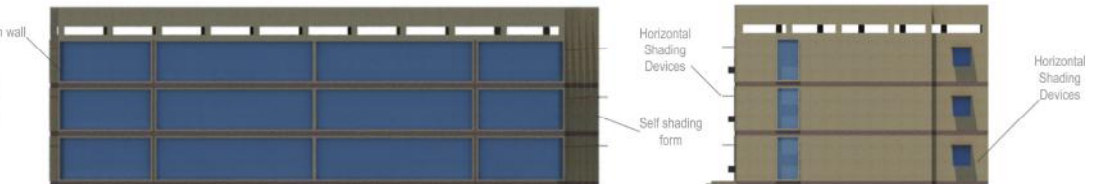
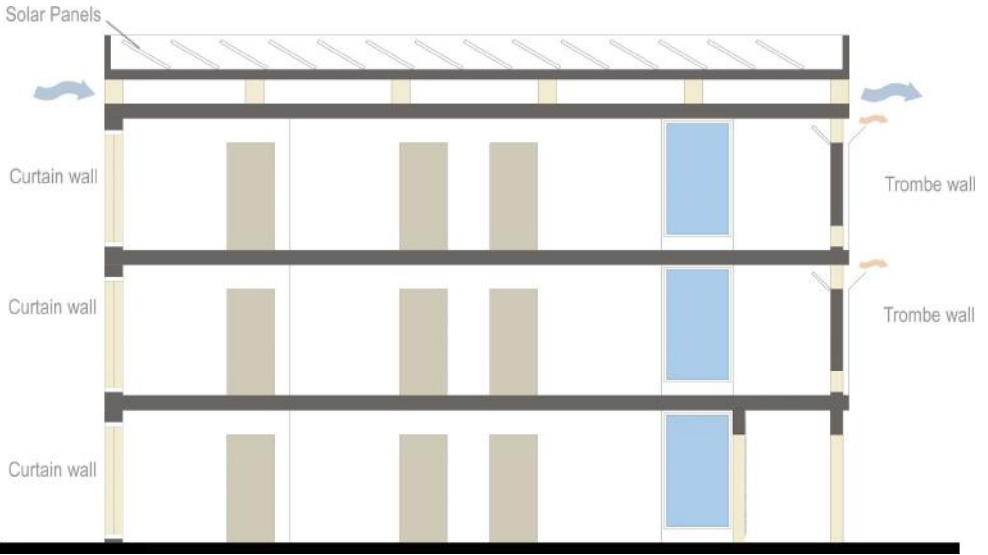
3D SHOT



ARCHITECTURE ELEVATIONS



STUDY SECTION



NEW CAIRO SMALL NEIGHBOURHOOD PARK

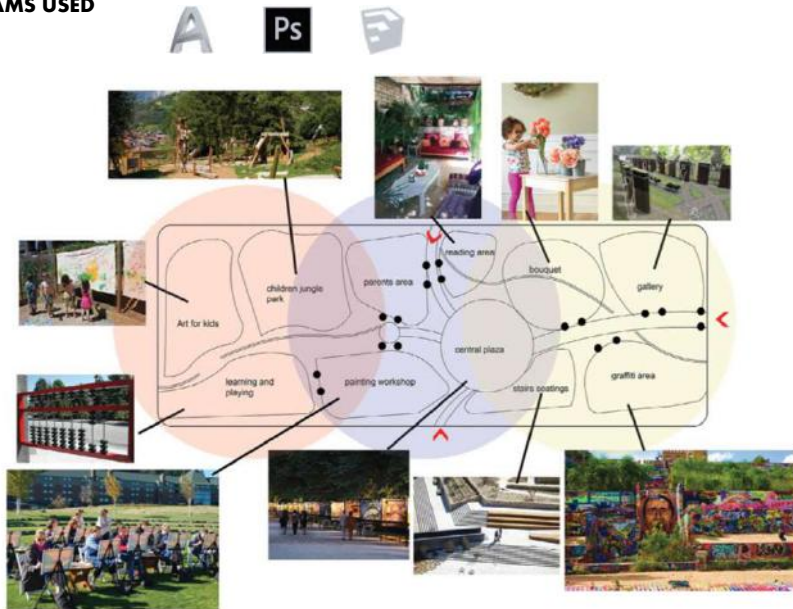
AAST

AL SHAAB ST., 5TH SETTLEMENT, NEW CAIRO , EGYPT

TYPE: LANDSCAPE

FAMILY PARK

PROGRAMS USED



LANDSCAPE DESIGN | AAST | MARCH 2019

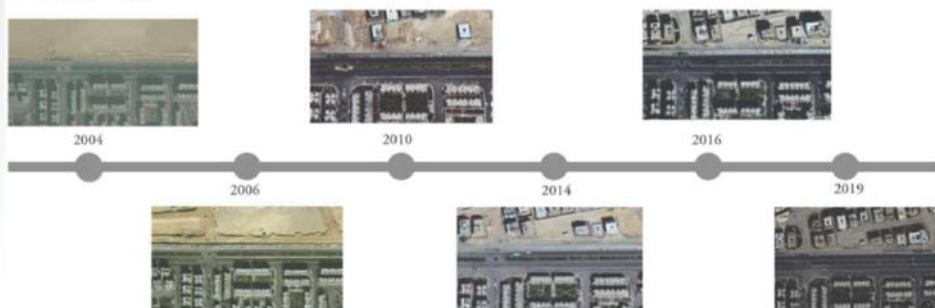
During the first decade of the new millennium the government of Egypt started the new project of New Cairo city which included several residential area along the new business district of the fifth settlement. Among which there was middle class housing projects that included a semi enclosed small parks next to 4-6 buildings and in the near proximity of 30 buildings. Even though this housing project was of a big Therefore, but these parks were abandoned by the residents due to the lack of design considering the needs of the new residents of the area, which Therefore, made these parks stacked with garbage and a place for illegal activities which threatens the safety of the residents. Therefore, a new design had to take place considering the needs of the potential park users.

The Landscape should be a place for the youth parents and young children in the surrounding area to use Either for gathering learning or playing. While seeing the sequence of the park.

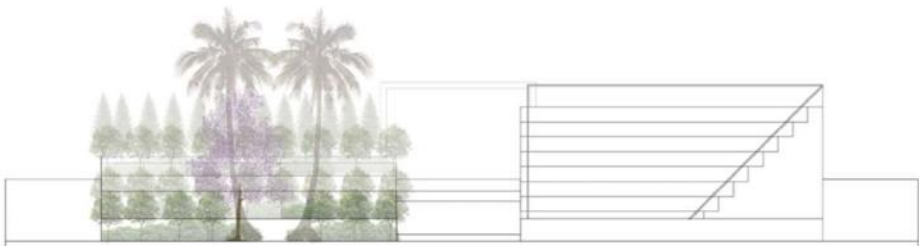
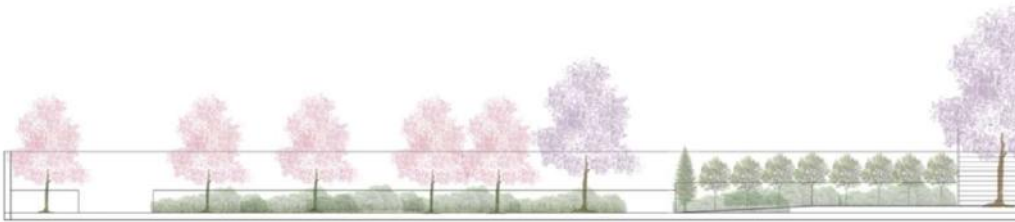
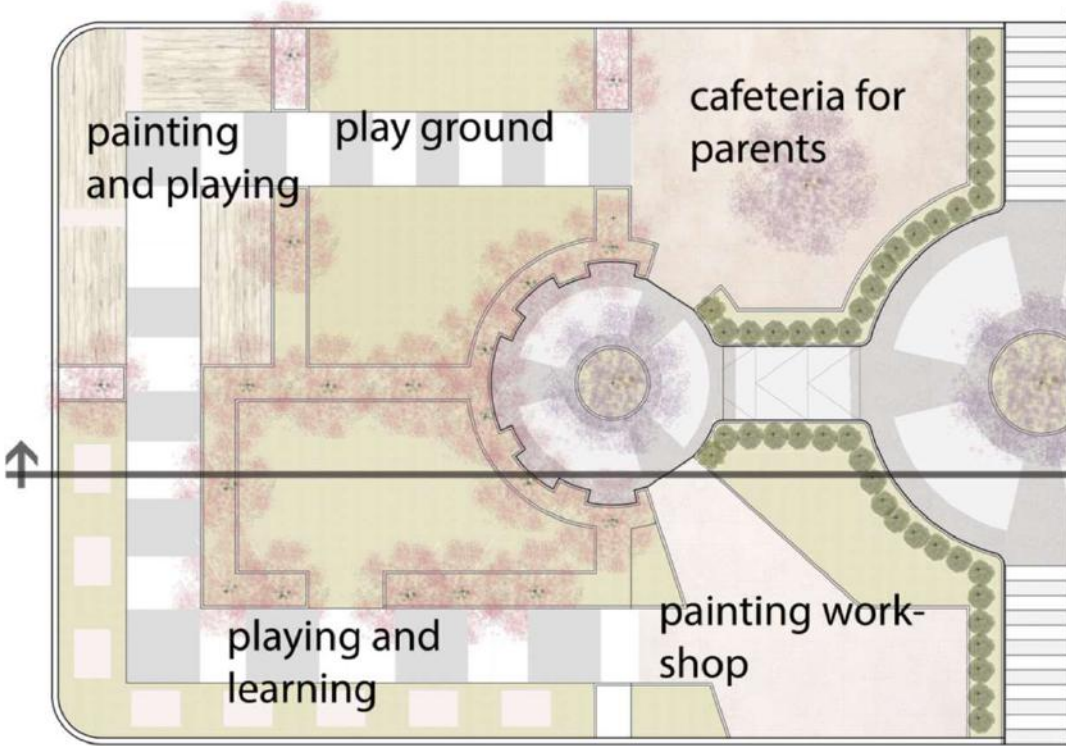
SITE ANALYSIS

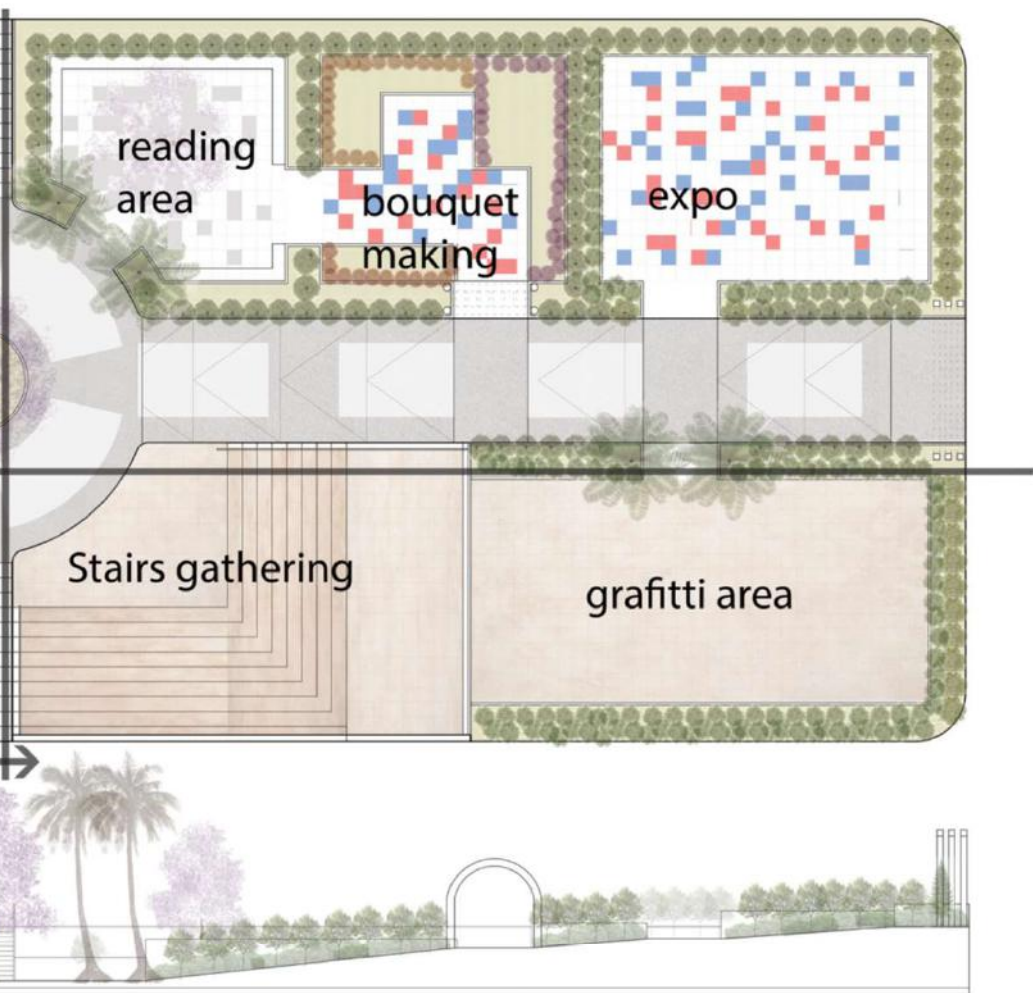


TIME LINE:



ARCHITECTURE DRAWINGS (PLAN – SECTIONS)





ABBASSIA CULTURE CENTER

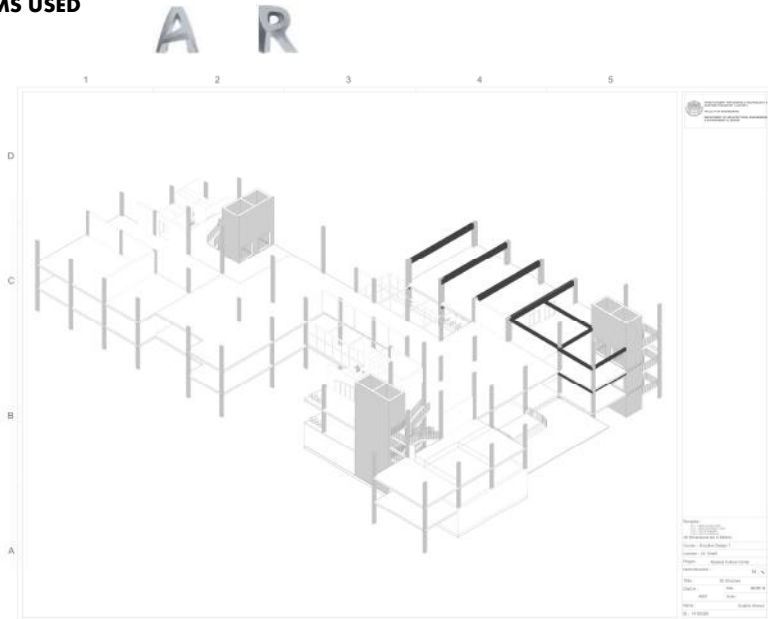
AAST

ABBASIA, CAIRO , EGYPT

TYPE: COMMUNITY

WORKING DRAWINGS

PROGRAMS USED

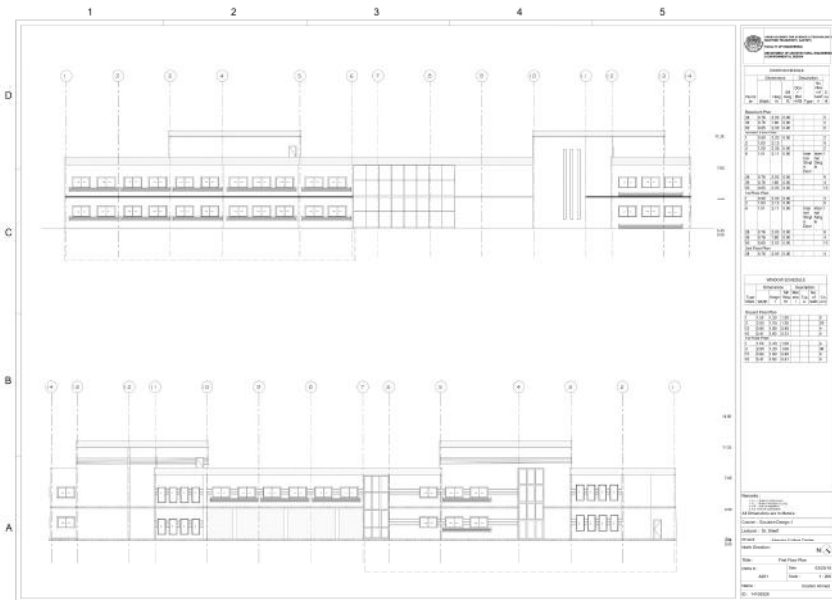
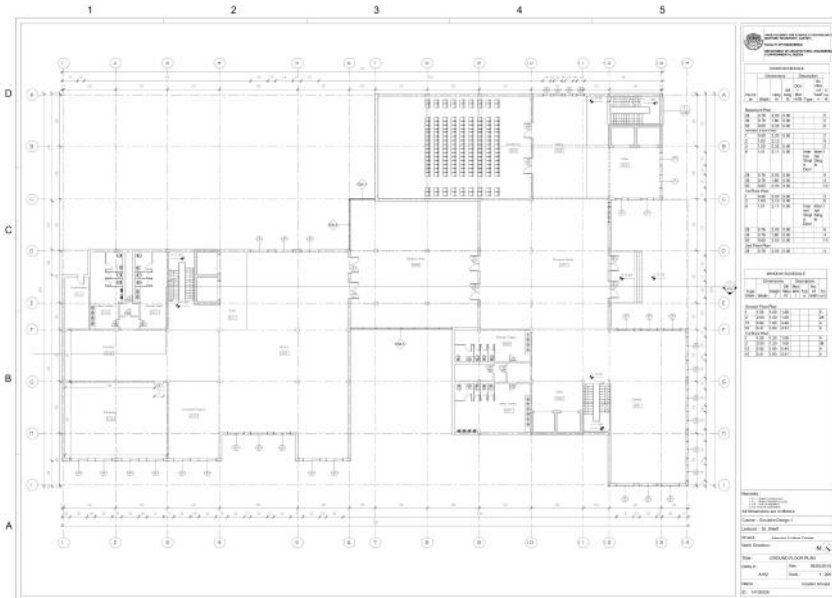


EXECUTION DESIGN I | AAST | MAY 2018

In this project, we were tasked with preparing a set of working drawings for one of our previous designs. The workflow primarily using Revit for creating the main architectural drawings and AutoCAD for detailed sections and large scale details.

Examples of the complete project are shown here, showcasing the use of both tools for accurate and detailed work.

WORKING DRAWINGS (PLAN AND ELEVATIONS)



ABBASSIA CULTURE CENTER

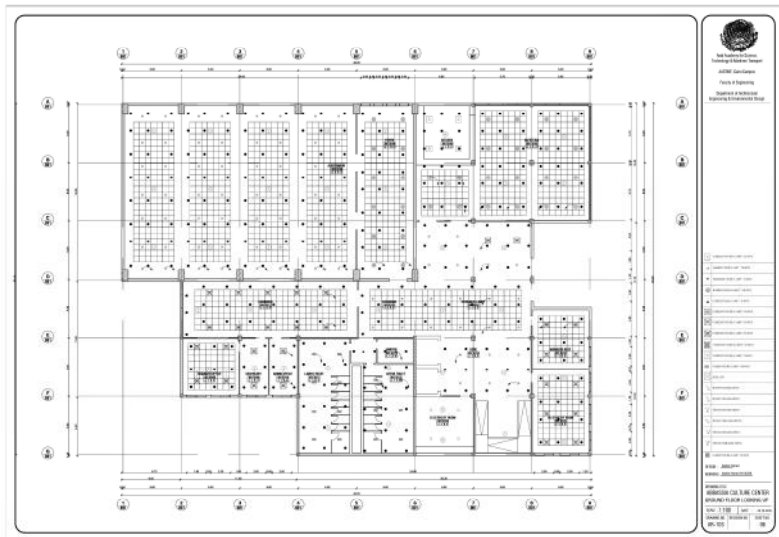
AAST

ABBASIA, CAIRO , EGYPT

TYPE: COMMUNITY

WORKING DRAWINGS

PROGRAMS USED



EXECUTION DESIGN II | AAST | JANUARY 2019

In this project, we were tasked with continuing the previous project and preparing a set of working drawings for one of our previous designs. Focusing on the MEP of the buildings calculation and execution while overcoming the challenges associated with this project. The workflow primarily using AutoCAD for creating the architectural drawings and excel for the calculations.

Examples of the complete project are shown here, showcasing the use of both tools for accurate and detailed work.

ABBASSIA CULTURE CENTER

AAST

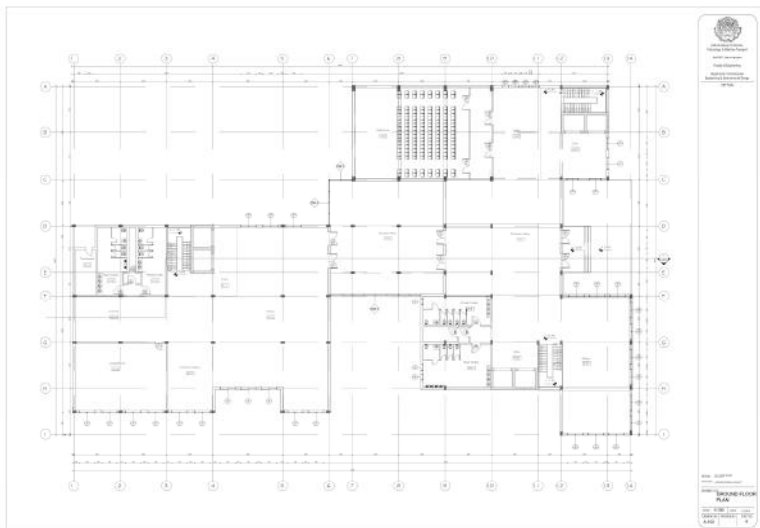
ABBASIA, CAIRO , EGYPT

TYPE: COMMUNITY

WORKING DRAWINGS

PROGRAMS USED

A



EXECUTION DESIGN III | AAST | MAY 2019

In this project, we were tasked with continuing the previous project and preparing a set of working drawings for one of our previous designs. Focusing on the details, scheduling and material selection while overcoming the challenges associated with this project. The workflow primarily using AutoCAD for creating the architectural drawings.

Examples of the complete project are shown here, showcasing the use of both tools for accurate and detailed work.

MILAN

CASCINA LINTERNO

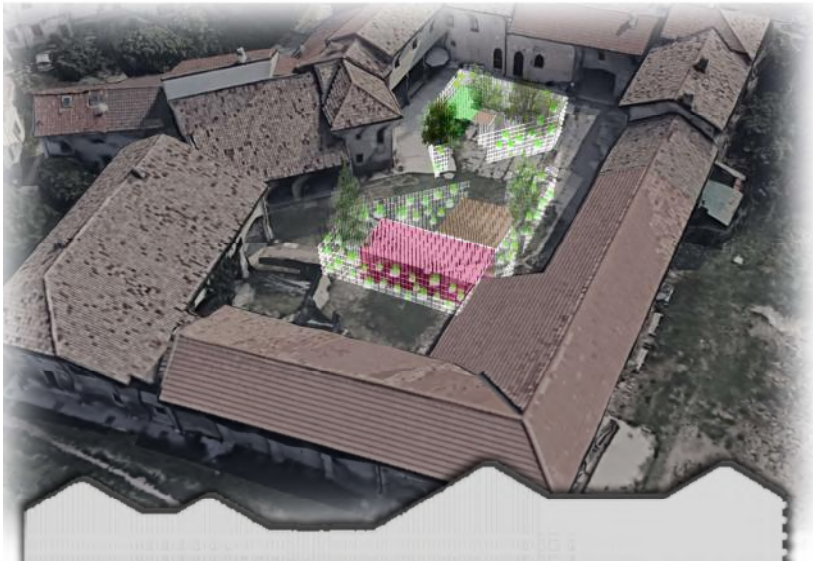
POLMI

SHERATON EL MATAR, CAIRO , EGYPT

TYPE: COSERVATION ARCHITETURE

FARM - RELIGIOUS - HERITAGE

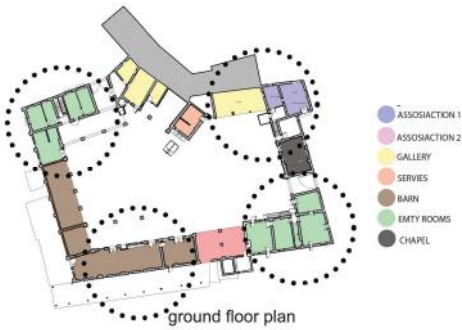
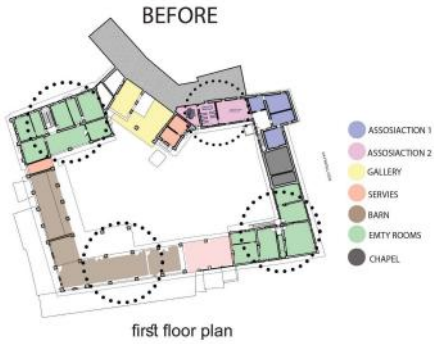
PROGRAMS USED



SUMMER SCHOOL | POLMI | JULY 2019

Conserving the historical residence of **Francesco Petrarca**, a key figure of the Renaissance whose poetry and writing helped ignite the era, this project is located on his farm in Milan. The design preserves the farm's original function by incorporating a **modern community farm** in the central courtyard.

The farm will be managed by locals, contributing to lower food prices and creating an economically sustainable model. Minimal changes are made to the historically significant structure, ensuring it endures for future generations while maintaining its original function with reduced reliance on government funding.



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CEMENT CAST CLOUD

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SHERATON EL MATAR, CAIRO , EGYPT

TYPE: DIGITAL FABRICATION

PARAMETRIC DECORATIVE CLOUD

PROGRAMS USED



DIGITAL FABRICATION | AAST | JANUARY 2017

A Cloud model that consists of two parts up (light) down (green), The model was designed using both rhino and grasshopper program, then it was fabricated (turned into physical model) by laser cutting the faces of one prototype of each part of the model, assembling them and casting cement in each of them, then taking every prototype as a molding base and casting it in a box surrounded by silicon; this will be a permanent mold, which allowed us to cast further 240 pot and light 120 each, the height of the pot stand and the length of the electrical wire holding the light bulbs was then determined from the digitally designed model.



