Madhav Goyal

Architecture Portfolio

About Me

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Mail Id: goyal.madhav@outlook.com
J 195, RBI Enclave, Paschim Vihar,
New Delhi -110063

Hello! I’m Madhav Goyal, an aspiring Architect holding a degree in Bachelors of Architecture with Distinction from the University of GD Goenka, Gurugram and also GBCI certified LEED Accredited Professional BD+C. I’m currently placed as a junior architect at Vijay Gupta Architects, Nehru Place.
In the realm of architecture, I am particularly interested in contextual design and excited at every opportunity to integrate community involvement and sustainable construction.
Having interned at Confluence Architects, Greater Kailash, I gained experience in several projects at different stages like concept design, planning, execution etc. I’m an Architect with a strong interest in contemporary designing and also gaining understanding about its details and construction process.
I’m always looking to have opportunities to keep learning from, and working with interesting practices and multicultural environments.

These opportunities have taught me to value clarity and humility in architectural design. For me, being an architect means balancing an almost obsessive desire for precision, rigour and order with a love for anything ephemeral, eclectic and/or vernacular. I bring a sense of logic and whimsy to his work, and take a special interest in projects that walk the line between architecture and sustainability.
Aside from my curiosities in architecture, my inclination is also towards learning new things and exploring my creativity through arts and taking volunteer initiative.
I've made an instrumental contribution in all the work presented here.

Curriculum Vitae

Education

2014 - 2019
Bachelor of Architecture
GD Goenka University, Gurugram
CGPA : 7.05/10

March - 2014
XII (Senior Secondary), Science
Indraprastha World School, New Delhi
CGPA : 8.60/10

March - 2012
X (Secondary)
Indraprastha World School, New Delhi
CGPA : 9.00/10

Skills

Digital

Photoshop CC
Autodesk Cad
Autodesk Revit
Rhino
Vray
Google Sketchup
Ms - Word
Ms - PowerPoint
Lumion
Twinmotion

Fabrication

Drafting
Prototyping

Language

English
Hindi

Workshop Attended

01 - 10 january 2015
Bamboo Workshop
Auroville Bamboo Centre, Tamil Nadu

02 - 04 december 2016
Revit Workshop
Autodesk - Capricot, New Delhi

02 - 04 december 2016
Nasa (Lumion Workshop)
Manav Rachna University, Faridabad

Participation and Certification

2009 - 2010
Best Endeavour in Academics
Indraprastha World School

2018
Ultratech's "House for a billion"
India Next Initiative, UltraTech Cement

2020
BIM for design
Autodesk capricot (New Delhi)

2020
LEED AP BD+C
GBCI

2016
Zonal - National Association of Students of Architecture
Manav Rachna University, Faridabad

Hobbies

Technorat
Gaming
Traveling
Cinema
Cycling
Music
Reading
Basketball

Experience

14 Agust present
Vijay Gupta Architects
Architect
Worked primarily in the design development phase of severaleducational projects.Drafted various design drawings,and made subsequent adjustments based on principal feedback.Also, assistedwith the production of construction drawings,such as architectural and electrical plans,and interior elevations and details.

01 june - 30 november 2018
Confluence Consultancy Services
Intern Architect
Participated in all phases of the design and construction processes on projects of wide-ranging scale, producing drawings and layouts and assisting with clients.
Created 3D models, rendering.

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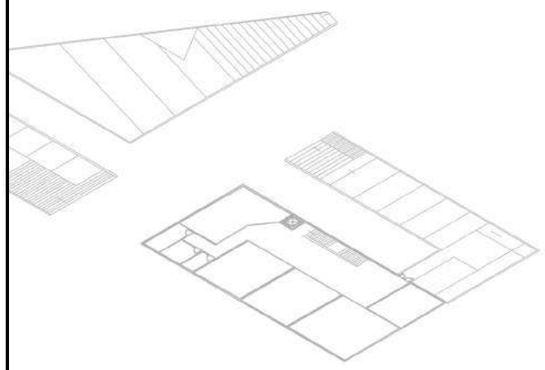
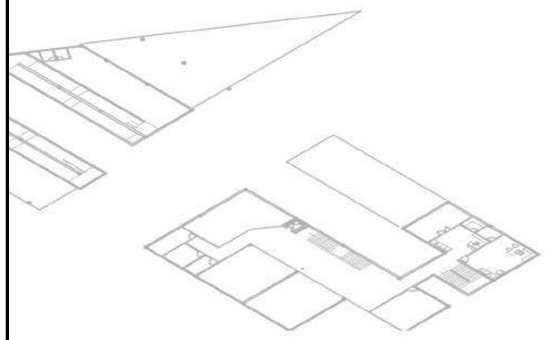
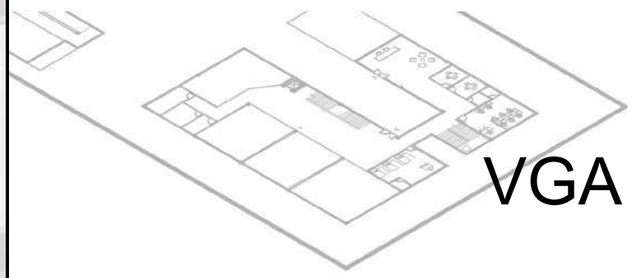






VGA OFFICE PROJECTS

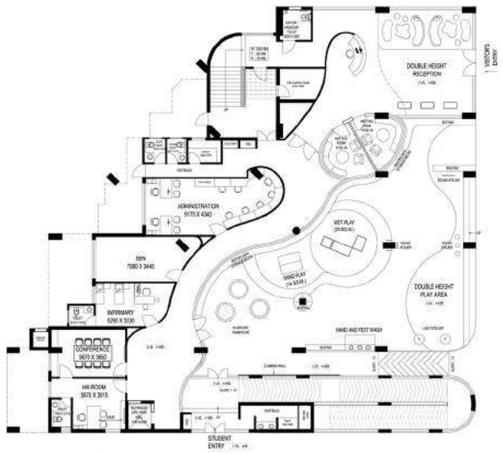
Vedanya School, Gurugram

One of the most crucial stages in a child's development are the primary school learnings, where there is greater push for outdoor physical activities with a smart experience based learning. Our main job was to create a parallel between these two for an integrated and interactive learning process which was achieved by sandwiching the active and inactive areas running parallel to one another with a centre space representing the best of both worlds, to create both a new learning experience with a new level of social interaction.

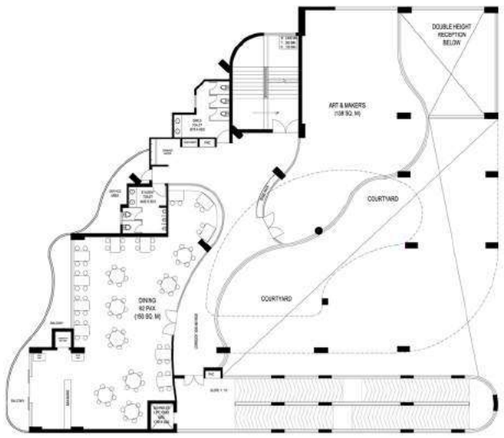
Client: Central Park, Gurugram
SiteArea: 2024 SQ. M
Location: Central Park – II, Gurugram
Function: Primary School
Role: Project Architect

Front View

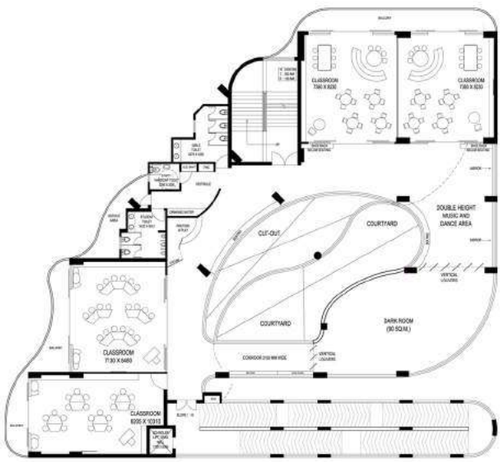
Floor Plans



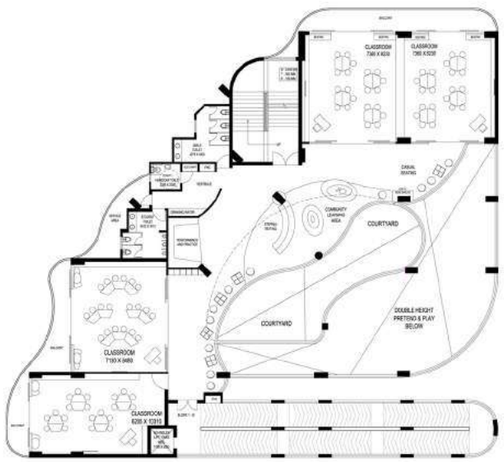
Ground Floor



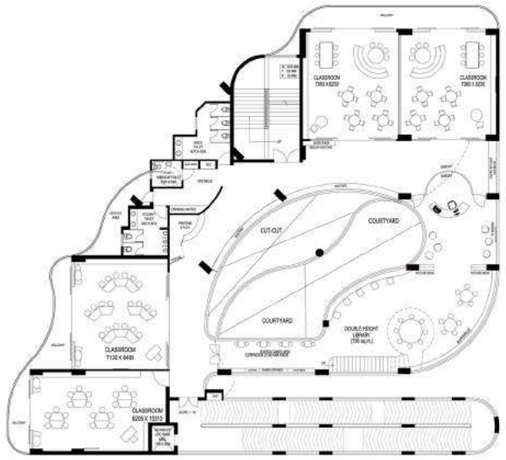
First Floor



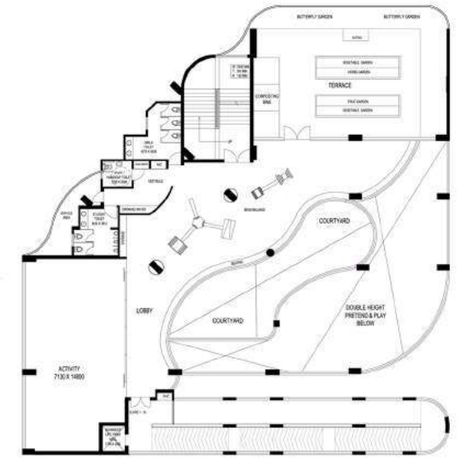
Second Floor



Third Floor



Fourth Floor

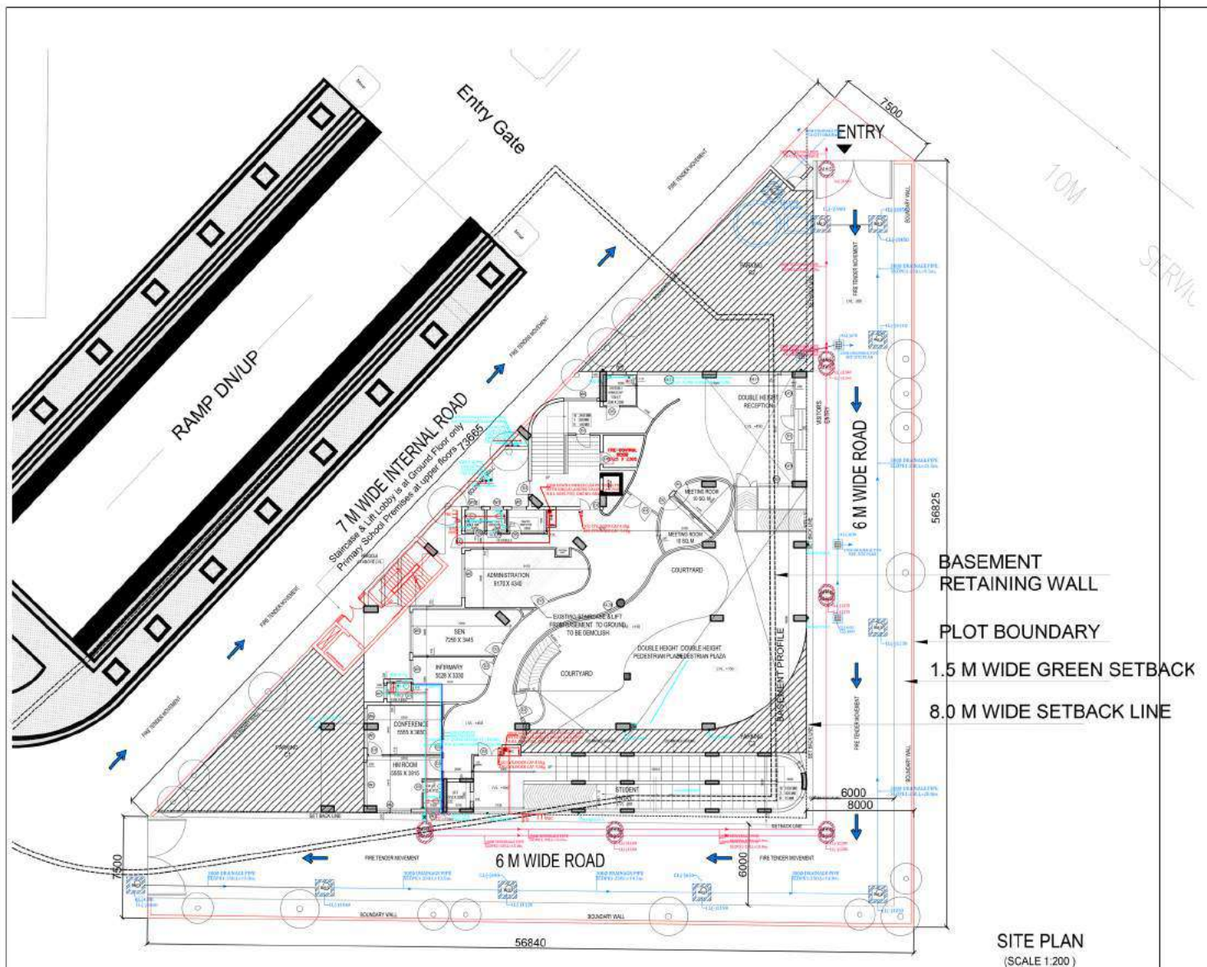


Fifth Floor

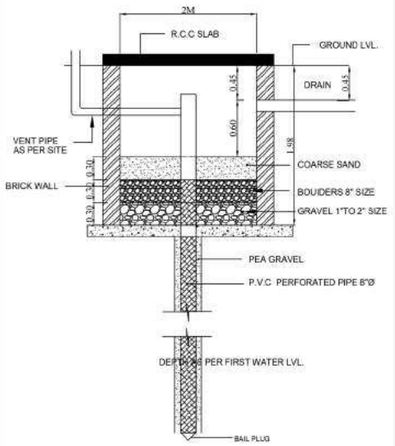
Exterior View

Interior View

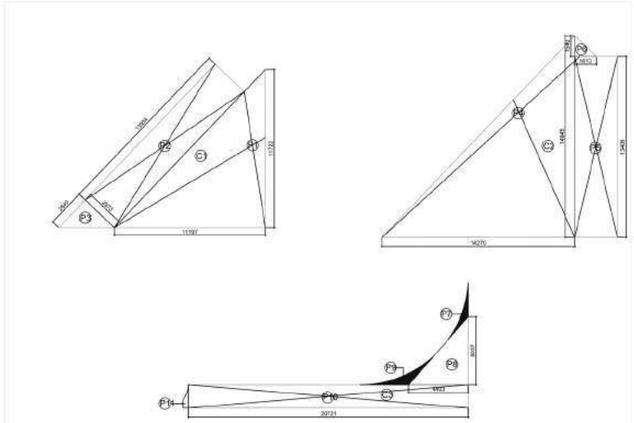
Sanction Drawing Site Plan



SITE PLAN
(SCALE 1:200)



RECHARGE PIT DETAIL FOR
RAIN WATER HARESTING

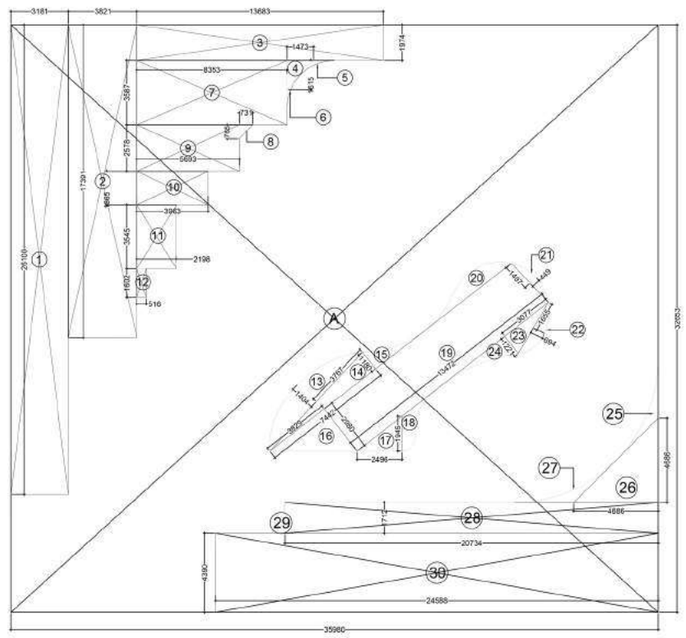


PARKING AREA DIAGRAM

TOTAL PLOT AREA					=	2023.428	SQMT	21780.179	SQFT
PERMISIBLE GROUND COVERAGE 35% OF PLOT AREA					=	708.1998	SQMT		
ACHIEVE GROUND COVERAGE					=	705.98	SQMT		
PERMISIBLE F.A.R OF SCHOOL BUILDING (1.5)					=	3035.142	SQMT		
ACHIEVE F.A.R OF SCHOOL BUILDING					=	2995.07	SQMT		
REMAINING FAR						40.07	SQMT		
COVERED AREA ON GROUND FLOOR =						452.580	SQMT.		
COVERED AREA ON 1ST FLOOR =						435.413	SQMT.		
COVERED AREA ON 2ND FLOOR =						614.863	SQMT.		
COVERED AREA ON 3RD FLOOR =						501.811	SQMT.		
COVERED AREA ON 4TH FLOOR =						614.863	SQMT.		
COVERED AREA ON 5TH FLOOR =						375.540	SQMT.		
TOTAL COVERED AREA =						2995.070	SQMT.		
CAR PARKING									
TOTAL PLOT AREA					=	2021.428	SQMT		
PARKING AREA REQUIRED 15% OF PLOT AREA					=	304	SQMT		
PARKING AREA PROVIDED	(C1+C2+C3)				=	208.67	SQMT		
P1		0.5X11.197X11.722			=	65.63	SQMT		
P2		13.934	X	2.973	=	41.43	SQMT		
P3		0.5X2.973X2.84			=	4.22	SQMT		
P4		0.5X14.27X14.945			=	106.63			
P5		3.161	X	13.405	=	42.37			
P6		0.5X1.613X1.54			=	0.895			
P7		AS/HATCH	X	1	=	0.915			
P8		4.403	X	5.037	=	22.18			
P9		AS/HATCH	X	1	=	1.666			
P10		20.72!	X	1.712	=	35.47			
P11		AS/HATCH	X	1	=	0.404			
TOTAL PARKING PROVIDED					=	321.81	SQMT		

COVERED AREA DETAIL OF GROUND COVERAGE :-

A	=	35.98	X	32.653	=	1174.855	SQMT	
DEDUCTIONS:-								
1	=	3.181	X	26.10	=	83.024	SQMT	
2	=	3.821	X	17.391	=	66.451	SQMT	
3	=	13.683	X	1.974	=	27.010	SQMT	
4	=	0.5X1.473X1.615			=	1.189	SQMT	
5	=	AS/HATCH	X	1	=	0.17	SQMT	
6	=	AS/HATCH	X	1	=	0.12	SQMT	
7	=	8.4	X	3.587	=	29.962	SQMT	
8	=	0.5x0.731x0.765			=	0.280	SQMT	
9	=	5.7	X	2.578	=	14.677	SQMT	
10	=	4.0	X	1.865	=	7.391	SQMT	
11	=	2.2	X	3.545	=	7.792	SQMT	
12	=	0.516	X	1.602	=	0.827	SQMT	
13	=	4/3 x H x $\sqrt{A^2 + 2/5H^2}$			=	7.245	SQMT	
A	=	3.767						
H	=	1.404						
	=	4/3 x 1.404 x $\sqrt{(3.767)^2 + 2/5(1.404)^2}$						
	=	4/3 x 1.404 x $\sqrt{14.19 + 0.788}$						
	=	1.872x3.87						
	=	7.245						
14	=	0.5X1.18X7.442			=	4.379	SQMT	
15	=	AS/HATCH	X	1	=	1.367	SQMT	
16	=	0.5x0.829x2.98			=	5.705	SQMT	
17	=	0.5x2.496x1.945			=	2.427	SQMT	
18	=	AS/HATCH	X	1	=	1.741	SQMT	
19	=	13.472	X	2.98	=	40.147	SQMT	
20	=	AS/HATCH	X	1	=	3.337	SQMT	
21	=	4/3 x H x $\sqrt{A^2 + 2/5H^2}$			=	0.912	SQMT	
A	=	1.497						
H	=	0.449						
	=	4/3 x 0.449 x $\sqrt{(1.497)^2 + 2/5(0.449)^2}$						
	=	4/3 x 0.449 x $\sqrt{2.241 + 0.08}$						
	=	0.599X1.523						
	=	0.912						
22	=	4/3 x H x $\sqrt{A^2 + 2/5H^2}$			=	1.597	SQMT	
A	=	1.669						
H	=	0.694						
	=	4/3 x 0.694 x $\sqrt{(1.669)^2 + 2/5(0.694)^2}$						
	=	4/3 x 0.694 x $\sqrt{2.785 + 0.193}$						
	=	0.925X1.726						
	=	1.597						
23	=	0.5x3.077x1.221			=	1.879	SQMT	
24	=	AS/HATCH	X	1	=	1.732	SQMT	
25	=	AS/HATCH	X	1	=	1.271	SQMT	
26	=	0.5x4.666x4.696			=	10.979	SQMT	
27	=	AS/HATCH	X	1	=	1.48	SQMT	
28	=	20.734	X	1.712	=	35.50	SQMT	
29	=	AS/HATCH	X	1	=	0.404	SQMT	
30	=	24.588	X	4.39	=	107.941	SQMT	
		TOTAL			=	468.873		
TOTAL COVERED AREA ON GROUND FLOOR								
		=	1174.85-468.873					
		=	705.977					SQMT



AREA DIAGRAM OF GROUND COVERAGE

N

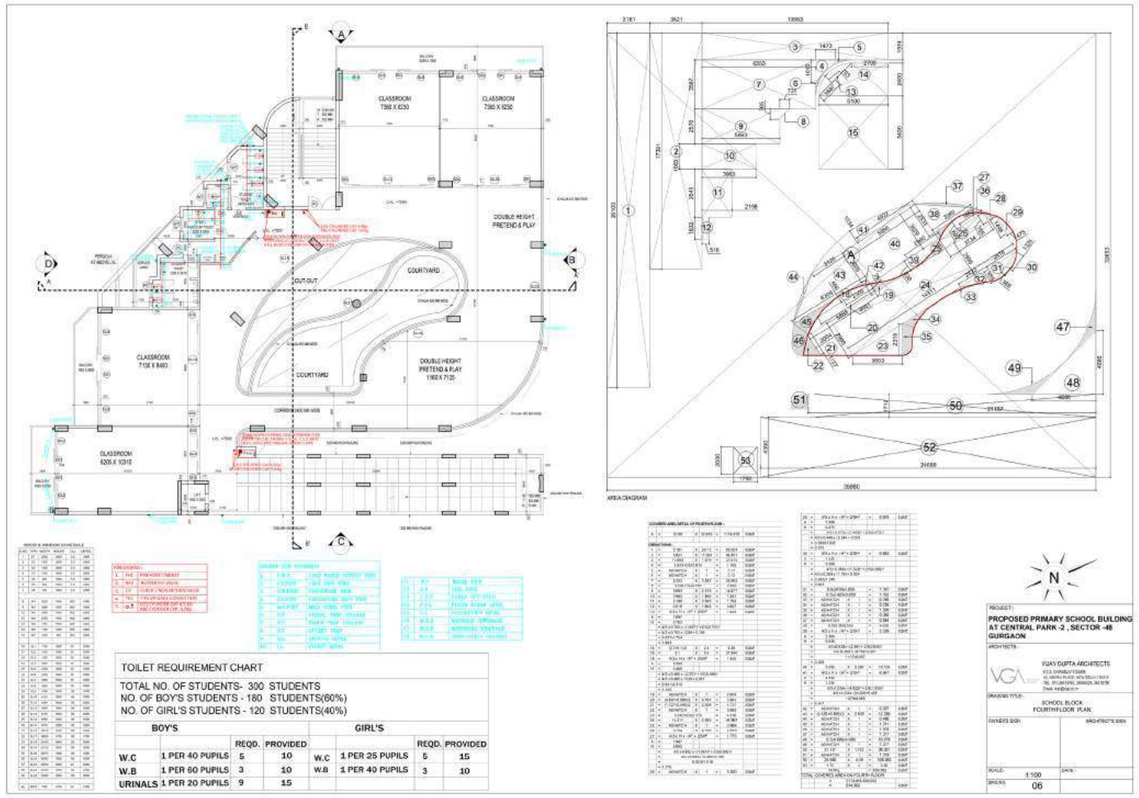
PROJECT:-
PROPOSED PRIMARY SCHOOL BUILDING AT CENTRAL PARK -2 , SECTOR -48 GURGAON

ARCHITECTS:-
VIJAY GUPTA ARCHITECTS
6.0.3, CHIRANJIV TOWER,
43, NEHRU PLACE, NEW DELHI-110019
TEL. 011-26414763, 26465428, 26410790
Email- mail@vga.co.in

DRAWING TITLE:-
SCHOOL BLOCK
SITE PLAN

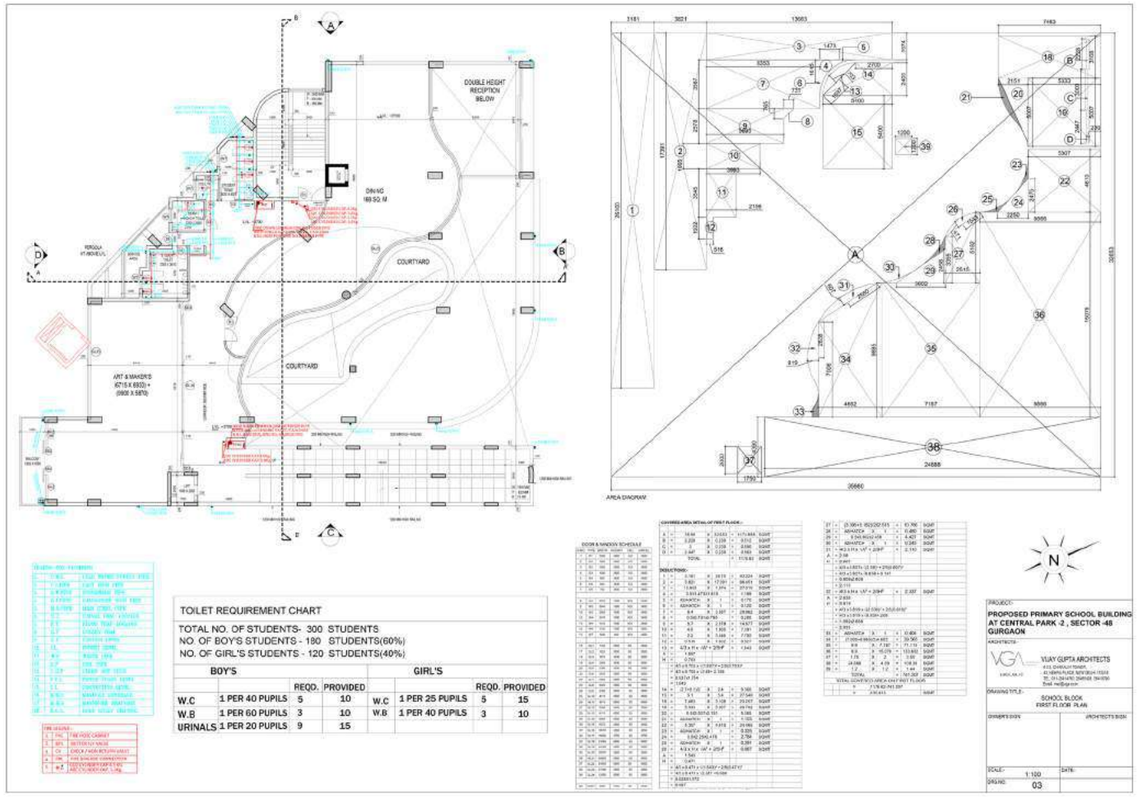
OWNER'S SIGN	ARCHITECT'S SIGN
SCALE:- 1:100	DATE:-
DRG.NO. 01	

Sanction Drawing



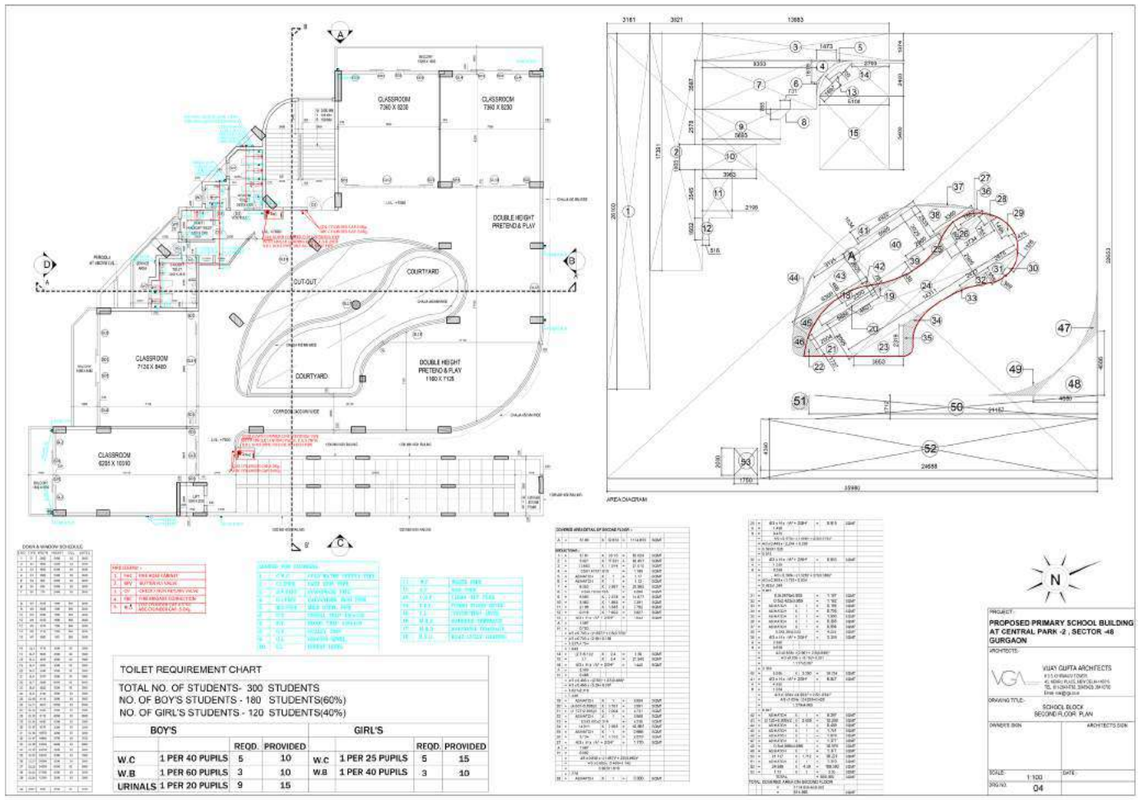
Ground Floor

Sanction Drawing

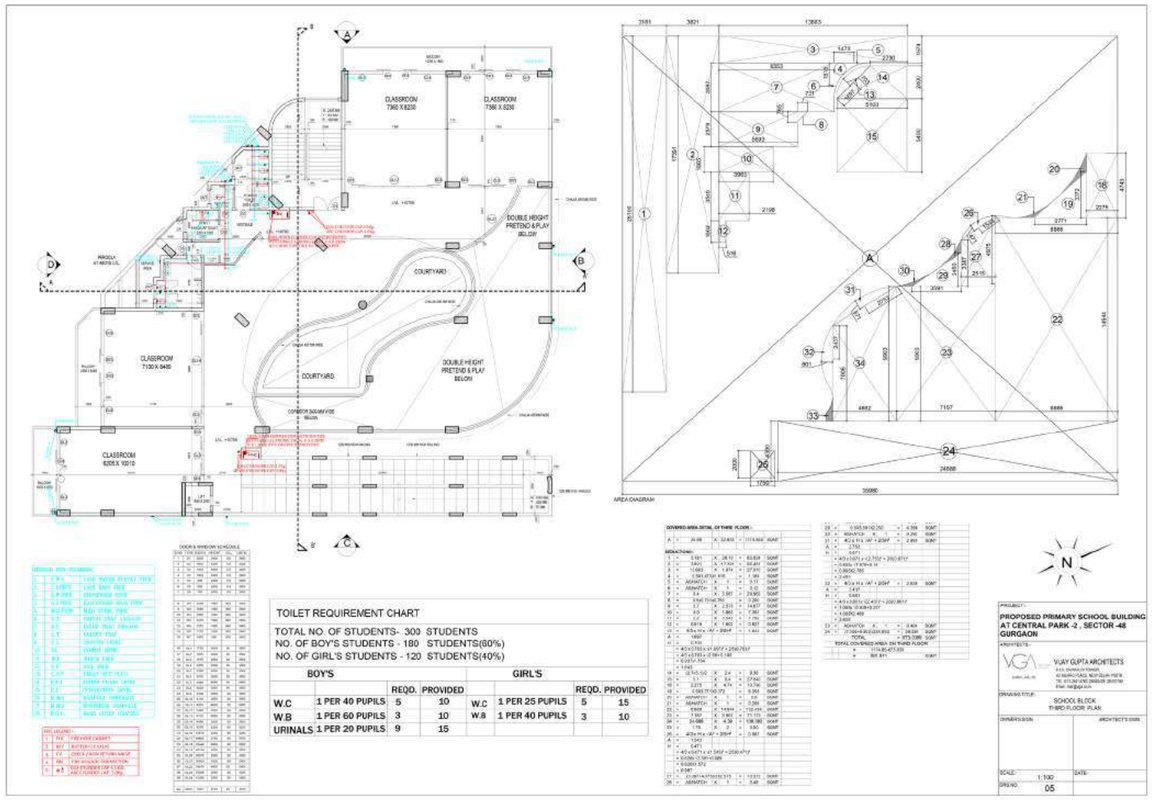


First Floor

Sanction Drawing

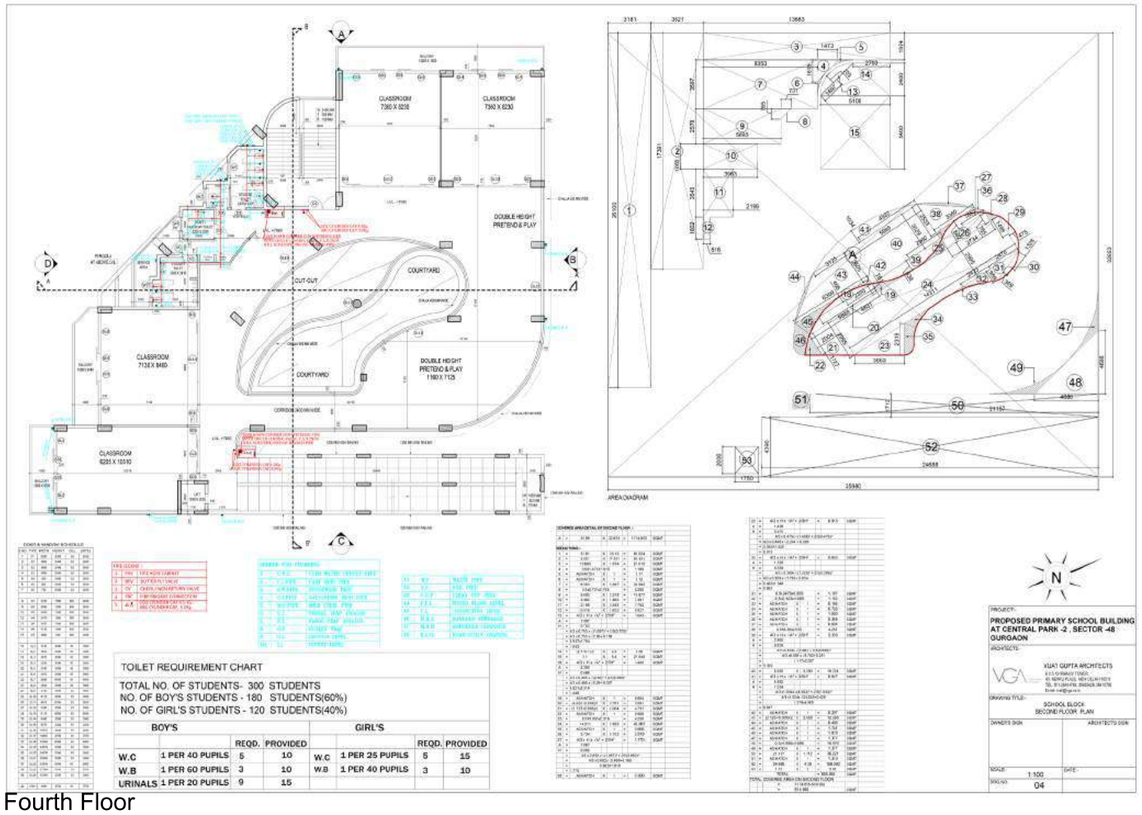


Second Floor



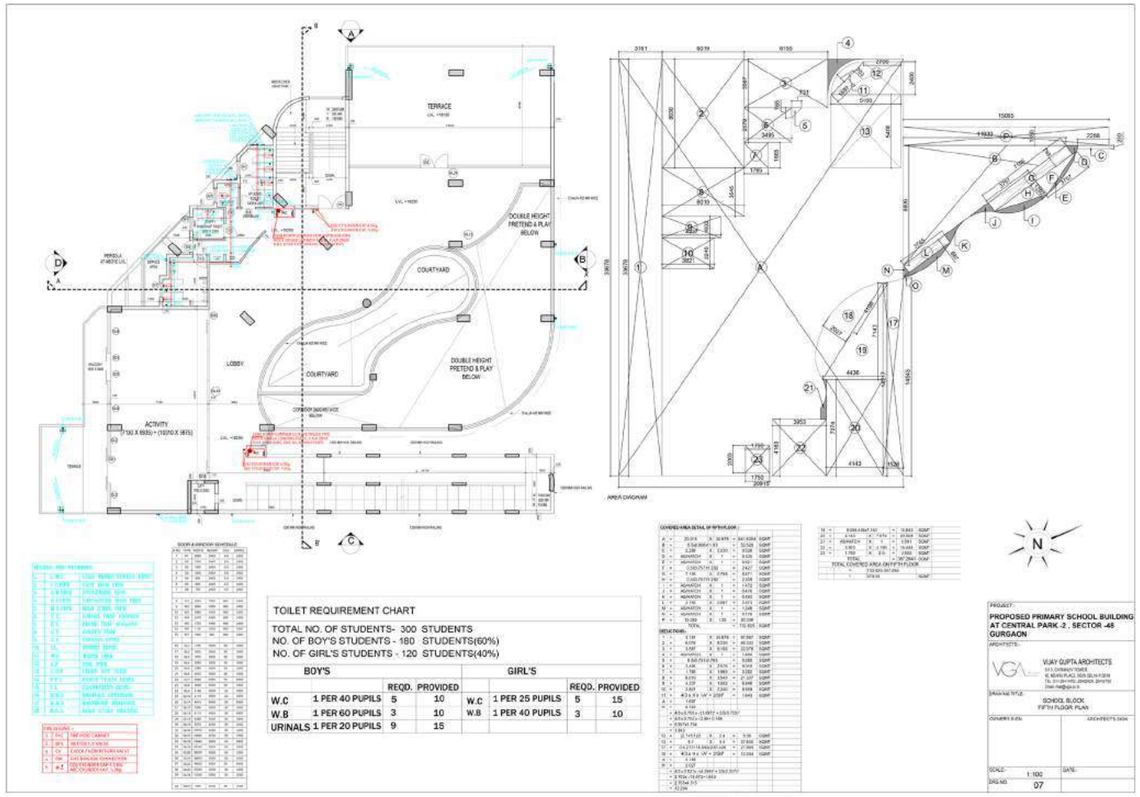
Third Floor

Sanction Drawing



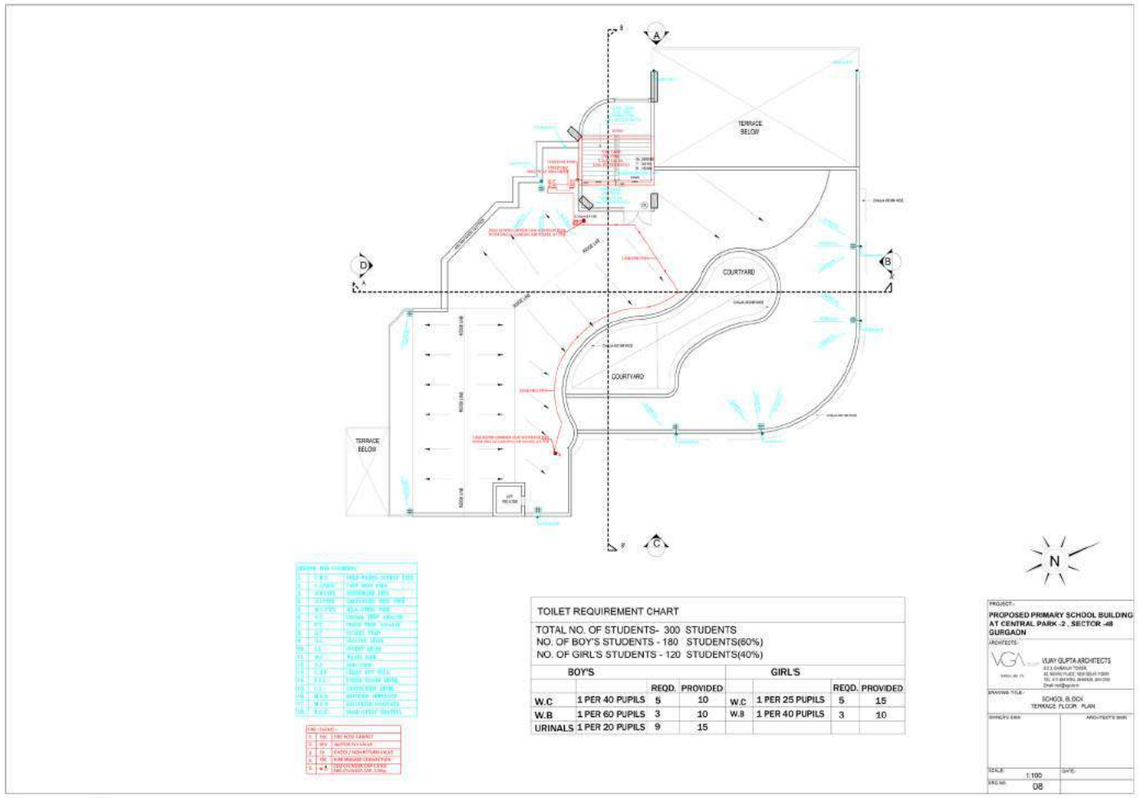
Fourth Floor

Sanction Drawing



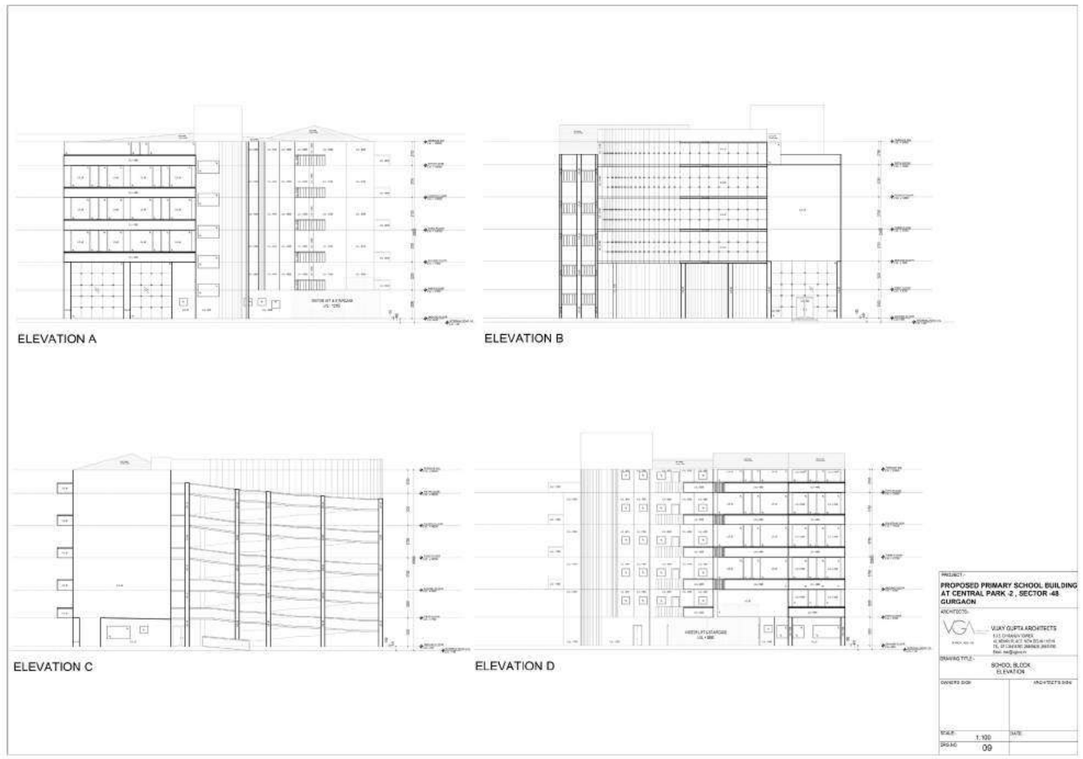
Fifth Floor

Sanction Drawing

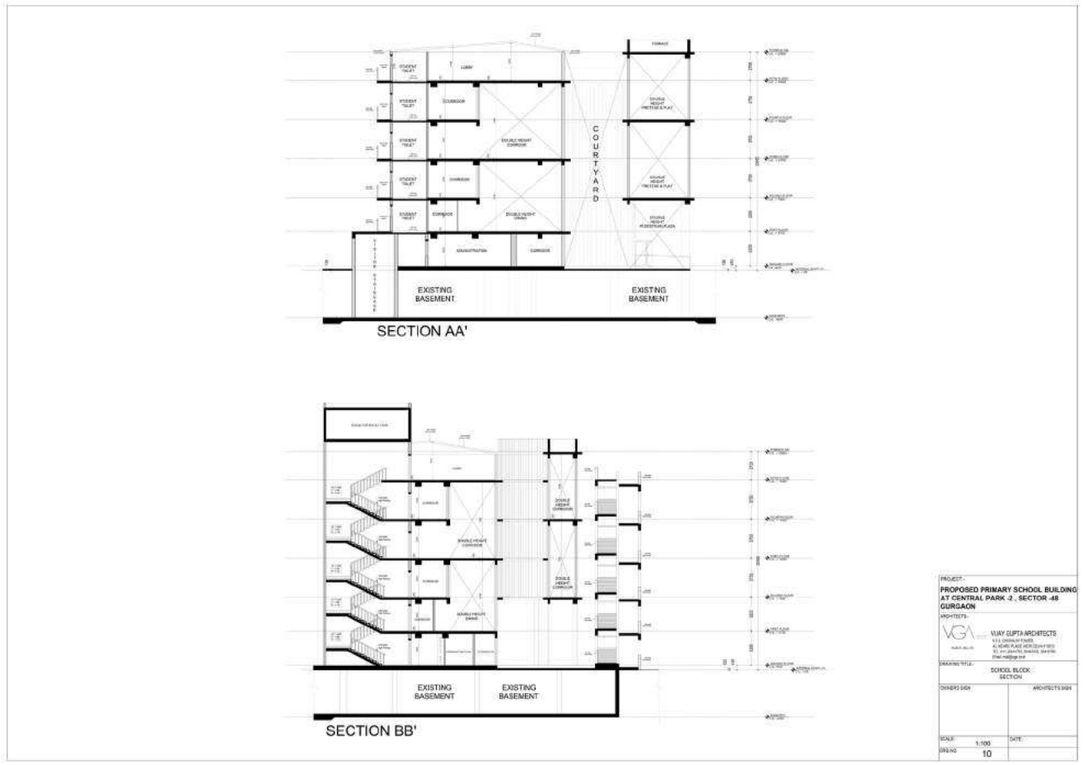


Terrace Floor

Elevations



Sections



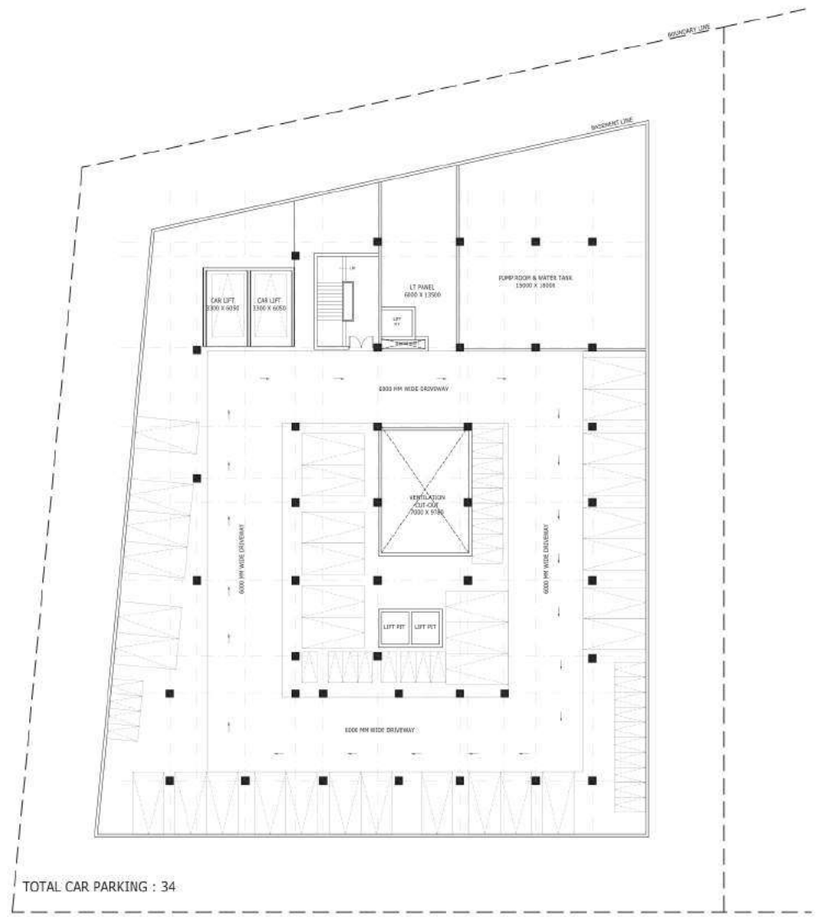
AIS, Airoli

Being a part of the financial capital, the first and foremost requirement was the space efficiency, so the usual approach was a vertical development of the school. Each floor has an integrated cluster of classrooms and activities with use of FAR free corridors to give the open airy vibe on the inside to the students, and on the outside the tile cladding with green wall facade grants it an identity of its own

Client: Amity Education Group
SiteArea: 3508 SQ M.
Location: Airoli, Mumbai
Function: School
Role: Project Architect

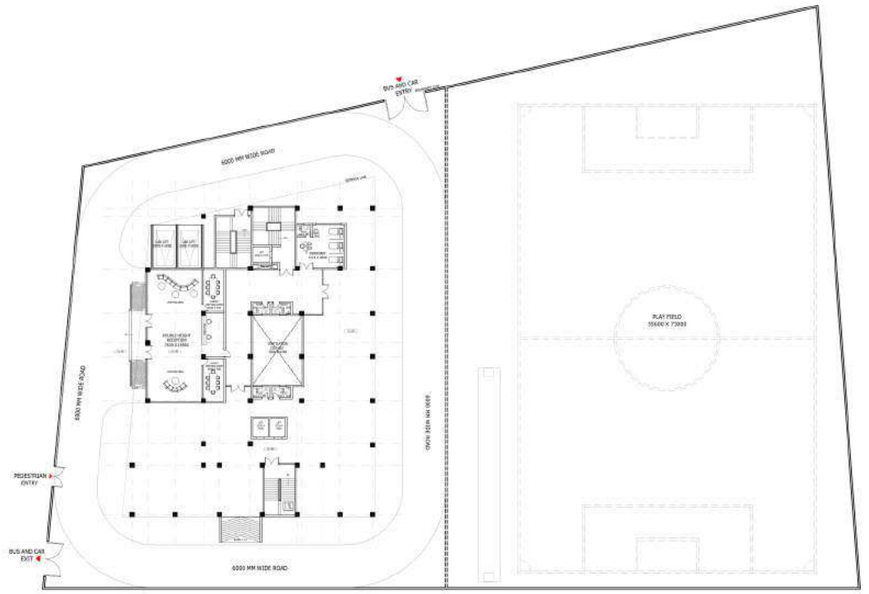
Views

Plans



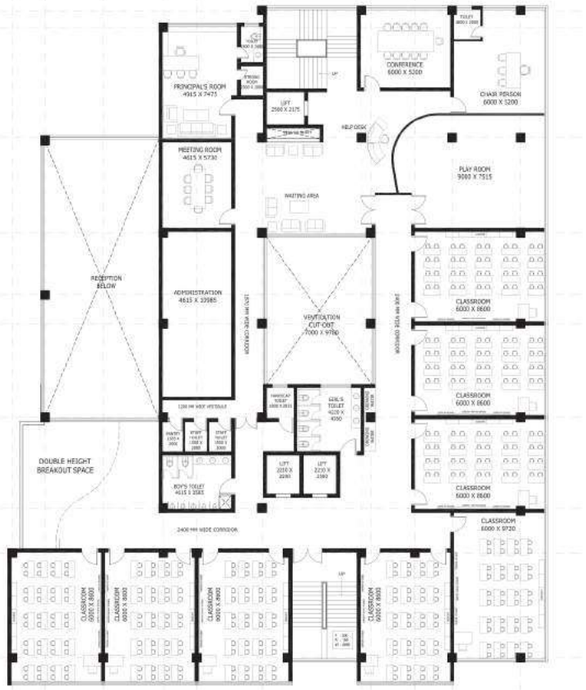
Basement Plan

Plans

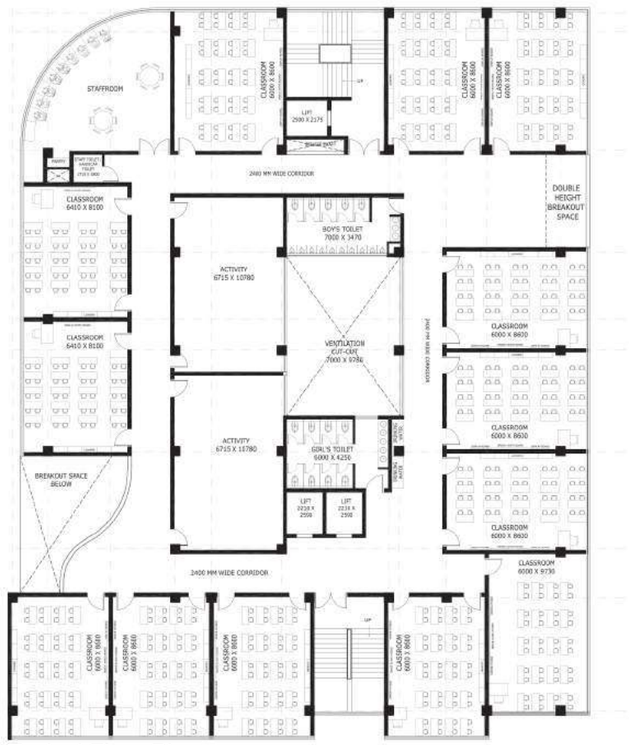


Ground Floor Plan

Plans

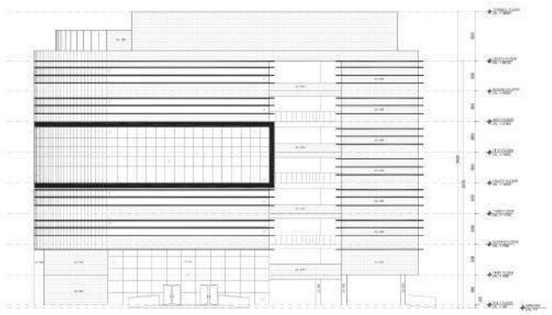


First Floor Plan

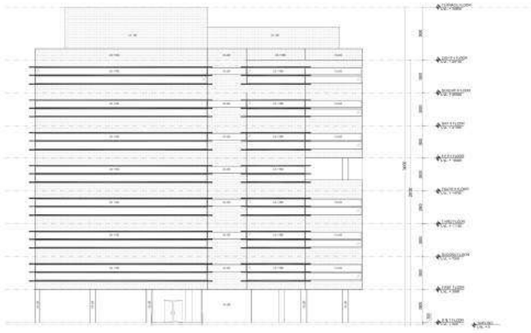


Typical Floor Plan

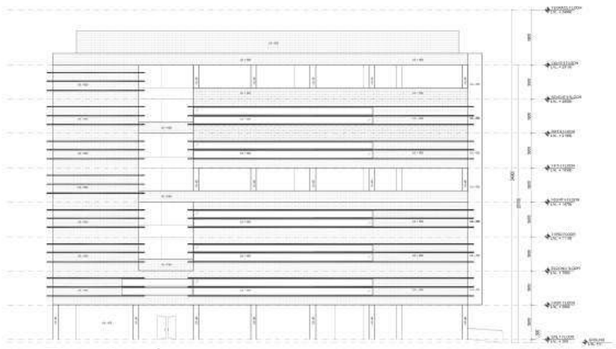
Elevations



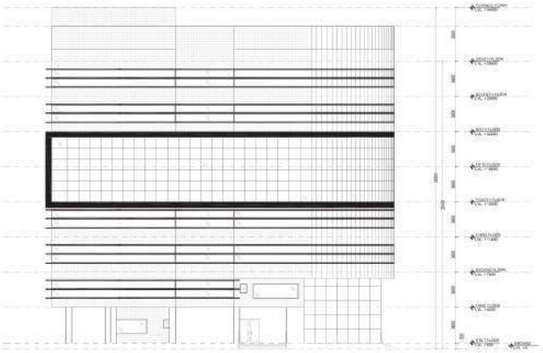
Elevation A



Elevation B



Elevation C



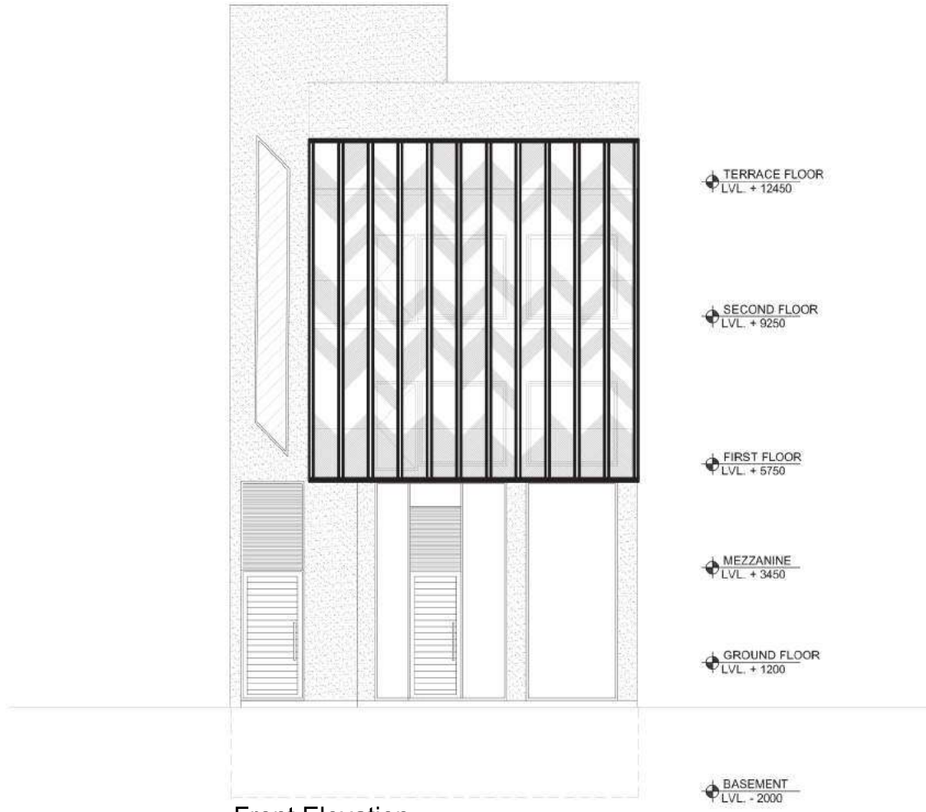
Elevation D

Graphic Office, Udyog Vihar

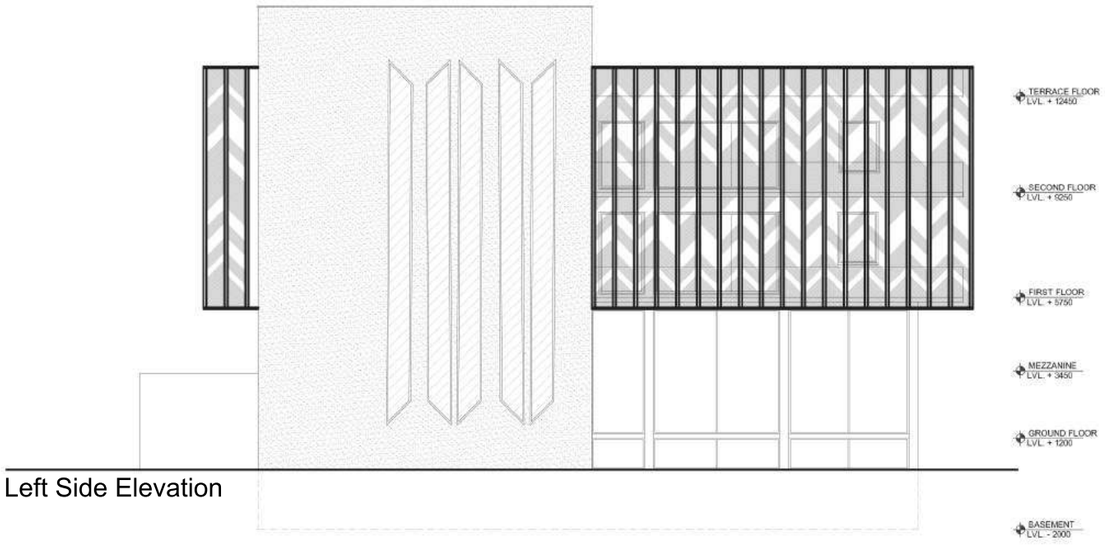
Being an existing residential complex, the expectation of the client was a minimum effort to convert it into a Graphic office. We took the existing spaces and treated them as an architectural complex that can fulfil the feasibility criteria of an office with optimal economic and environmental performance, and for that purpose the facade was provided with perforated aluminium panels that can be folded matching the sunlight and privacy requirements of the occupants.

Client: Saurabh Gupta
SiteArea: 289.5 SqM
Location: 634,Udyog Vihar,Phase5,Gururam,Haryana
Function: Commercial
Role: Facade Designing

Elevation Opt1

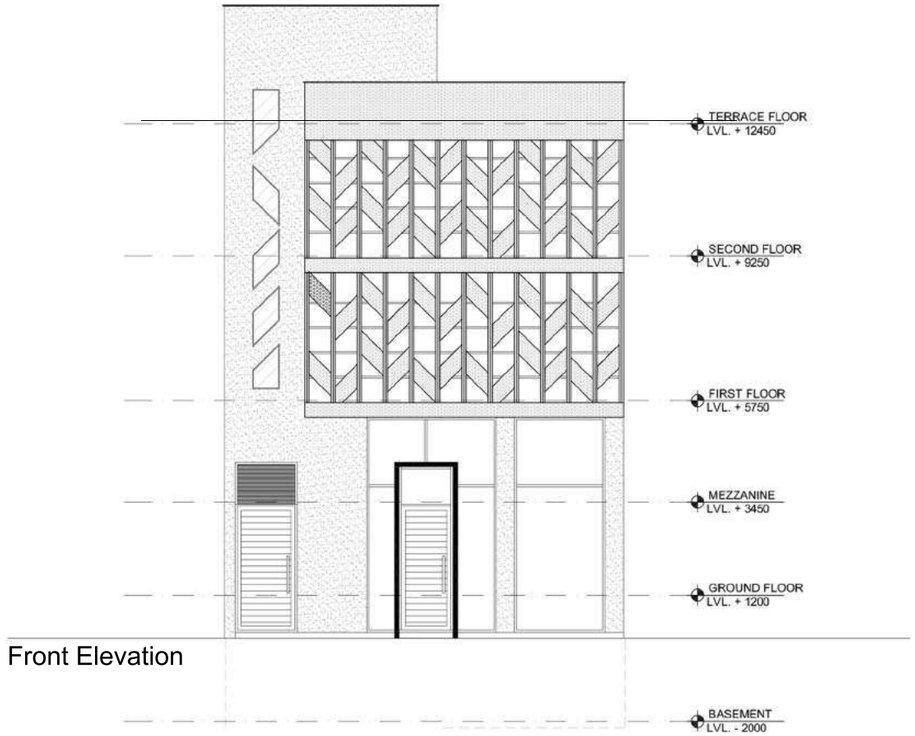


Front Elevation

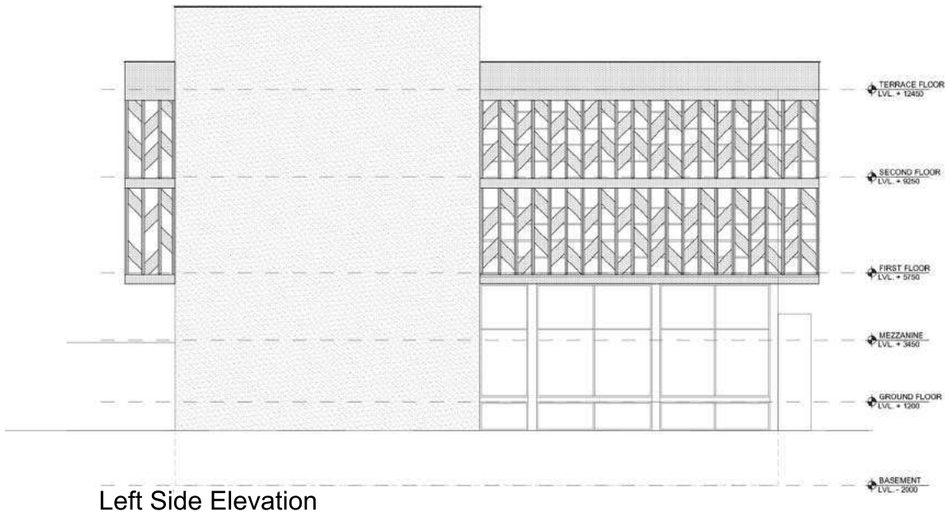


Left Side Elevation

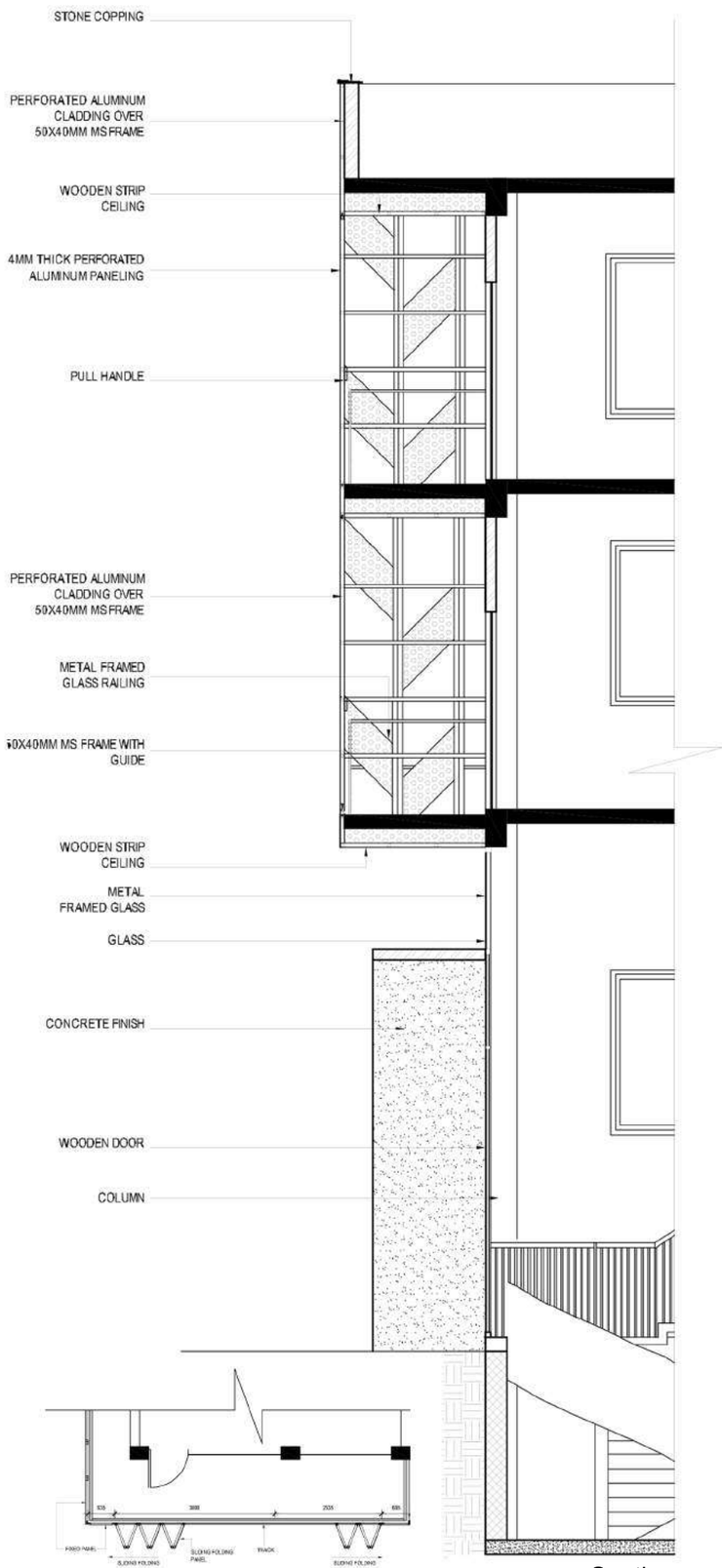
Elevation Opt 2



Front Elevation

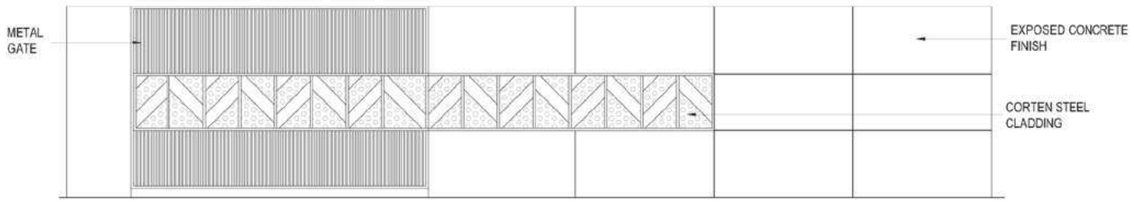


Left Side Elevation



Section

Boundary wall Options



Boundary Wall Opt1

Boundary Wall Opt2

Facade Options

Facade Opt 1

Facade Opt 2

Amity International School

Jagdishpur

Placed in a rural setting of UP, the expected outcome from the client was a Low cost structure with minimum maintenance over time. To address the challenge we made use of Local Bricks with Concrete to make it minimal and cost effective with a colour scheme that reflects the very Idea of Amity group of institutions

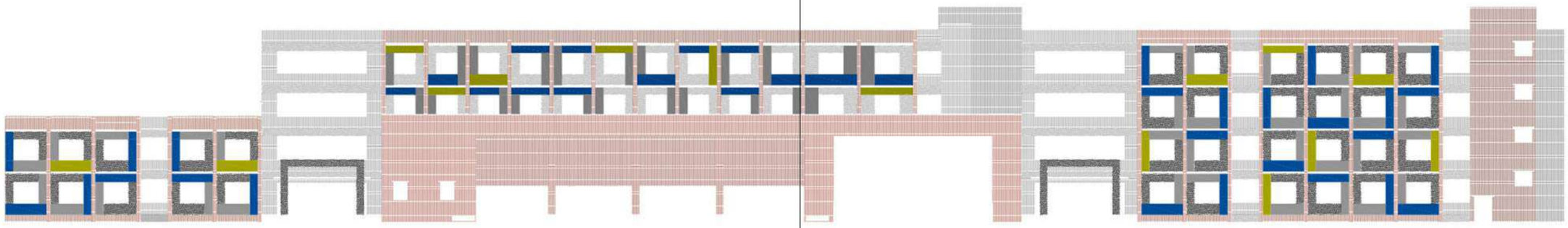
Client: Amity

Location: Jagdishpur,Amethi,Uttar Pradesh

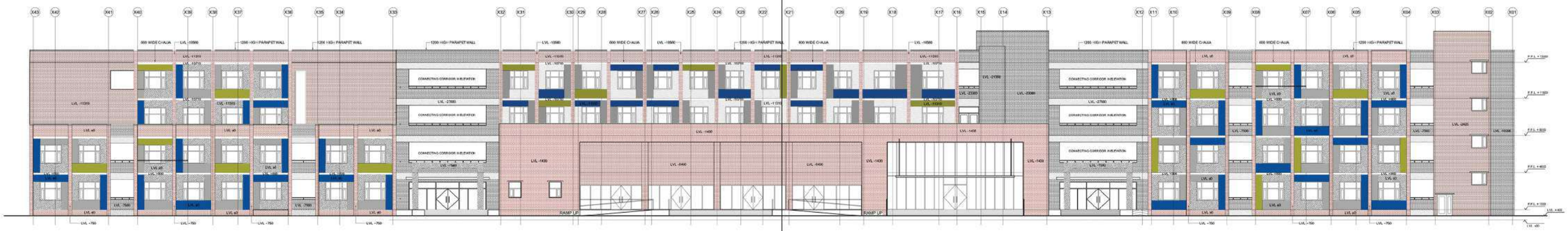
Function: Commercial

Role: Facade Designing

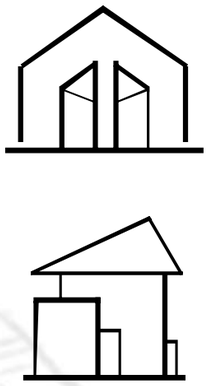
Front Facade



Frame



Front Elevation



Live Work Play

By creating various options for the modules, it is possible to seduce people of all kinds to gather and contribute with their vision of life to the tower community. By favouring such diversity we create a one of a kind place which defies the limitations and differences and embraces the primal joy of social interaction

About

My Users

Kunal Work

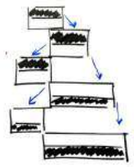
Nakul Public

Mira Live

By creating various options for the modules,
it is possible to seduce people of all kinds to gather and
contribute with their vision of life to the tower community.
By favouring such diversity we create a
one of a kind place which defies the limitations and
differences and embraces the primal joy of
social interaction.

Design Development

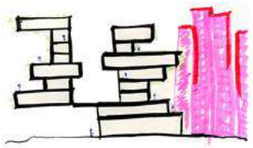
Stacking each floor

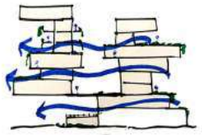


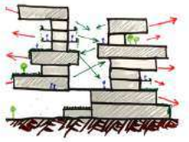
Concept is to create inner
pocket space between floor

Greenery was blend
into pocket

Different level with
different type of floor plan







Design Development

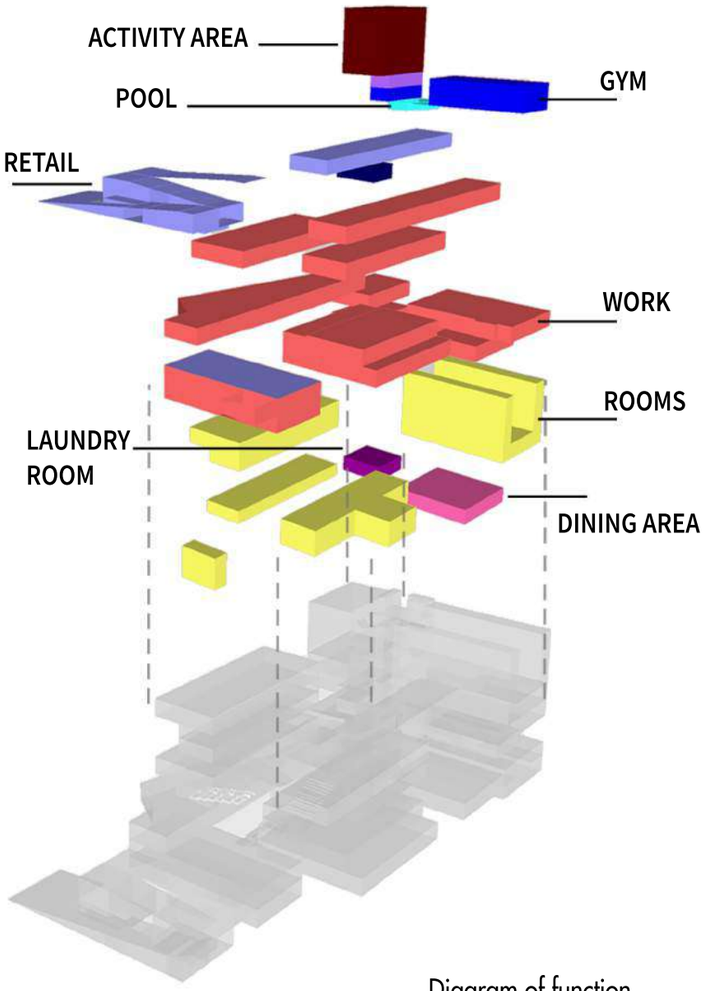
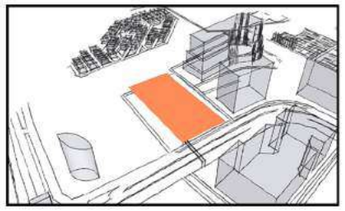
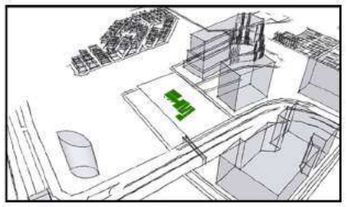


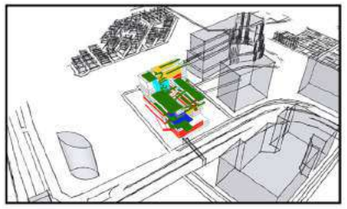
Diagram of function



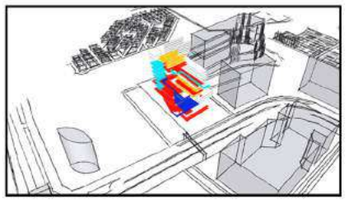
CONNECTION TO THE CITY



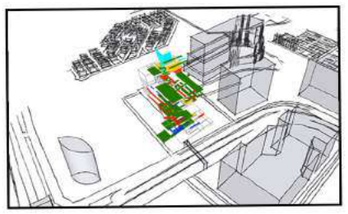
EXTENDING THE STREET INSIDE



AN INTERACTIVE HUB

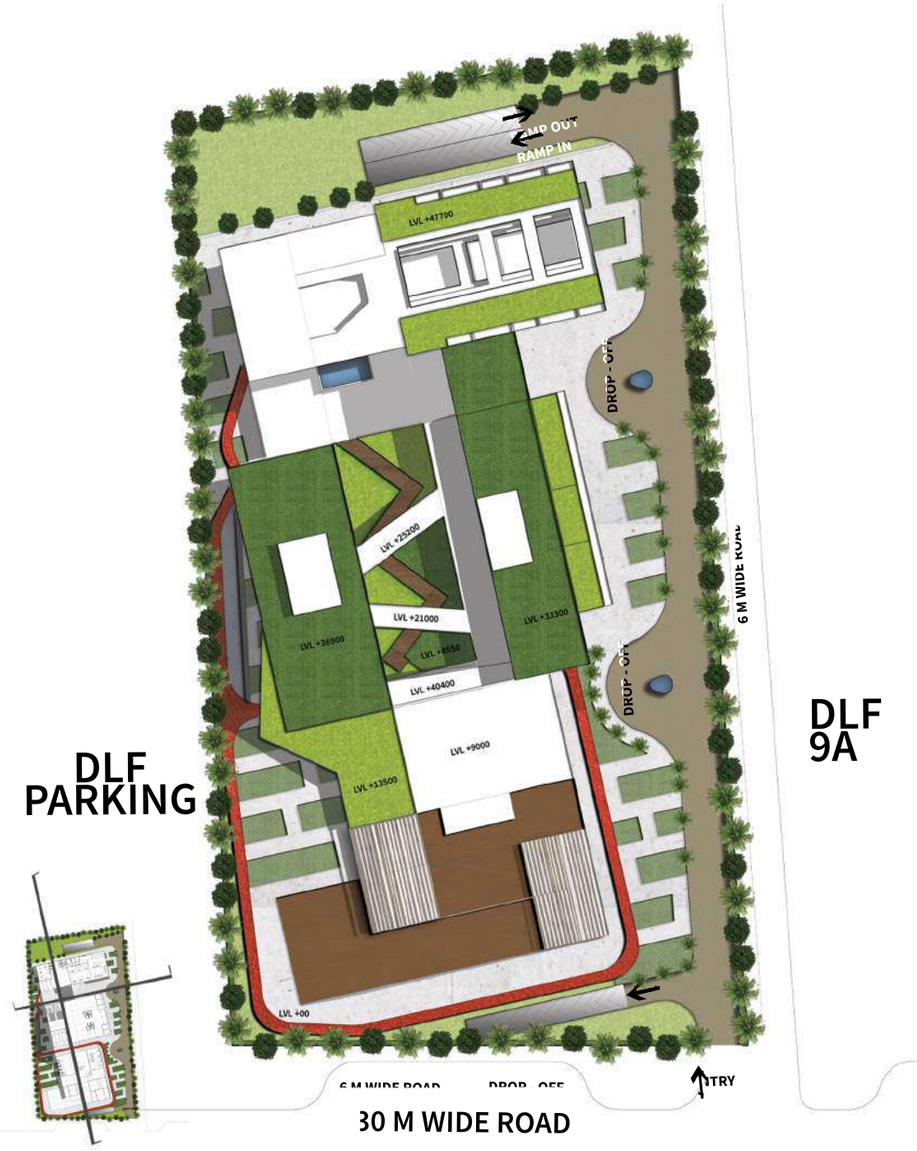


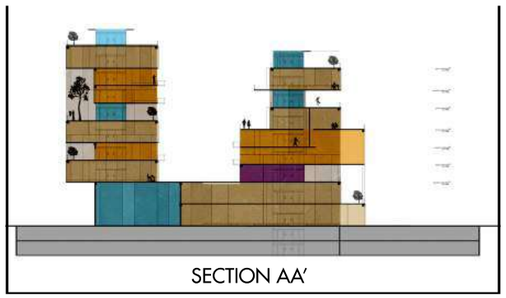
CREATIVE PROGRAM MIX



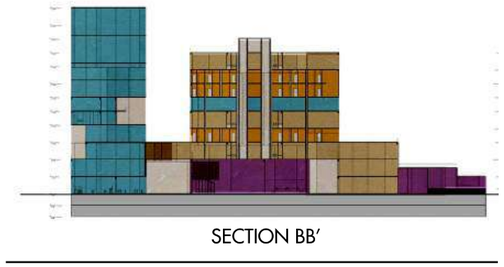
CREATING COMMUNITY

Roof Plan





SECTION AA'

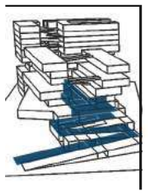


SECTION BB'

DEGREE OF PUBLICNESS

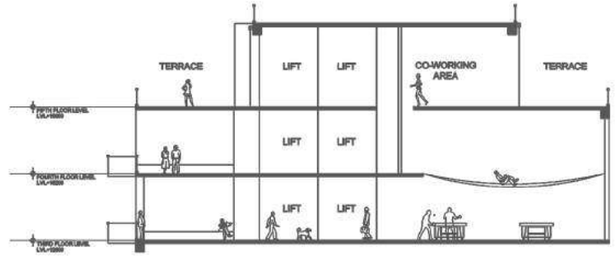
PUBLIC

The site welcomes public to use the space and apply different functions to the same space. The continuos ramp that extends to the terrace allows people to interact and have a sense of publicness.

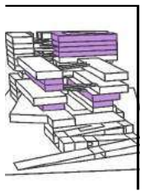


DEGREE OF PUBLICNESS

LIVE



New typology for people that prefers living in a private apartment, but like the idea of sharing some spaces with specific purposes with their neighbours



DEGREE OF PUBLICNESS
WORK

Common Leisure

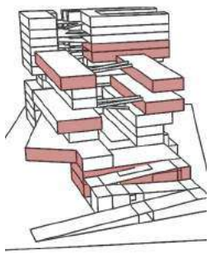
Library

Administrative

Restaurant

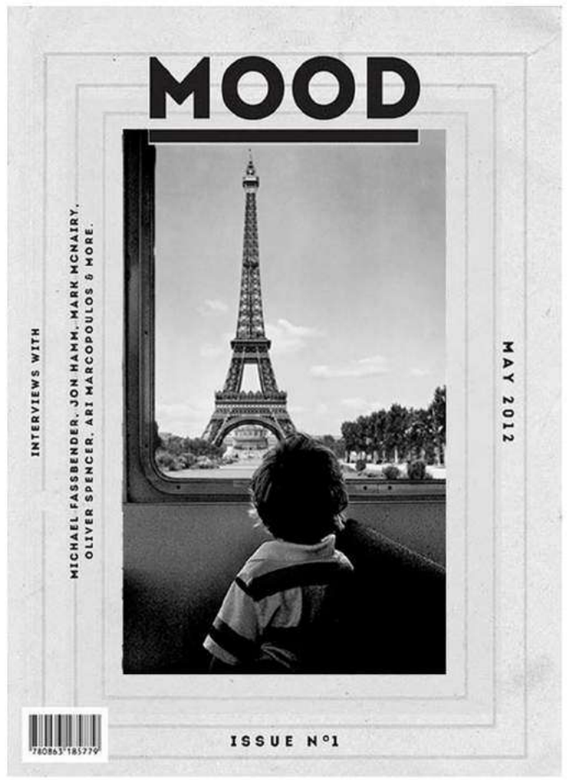
Isolated Work

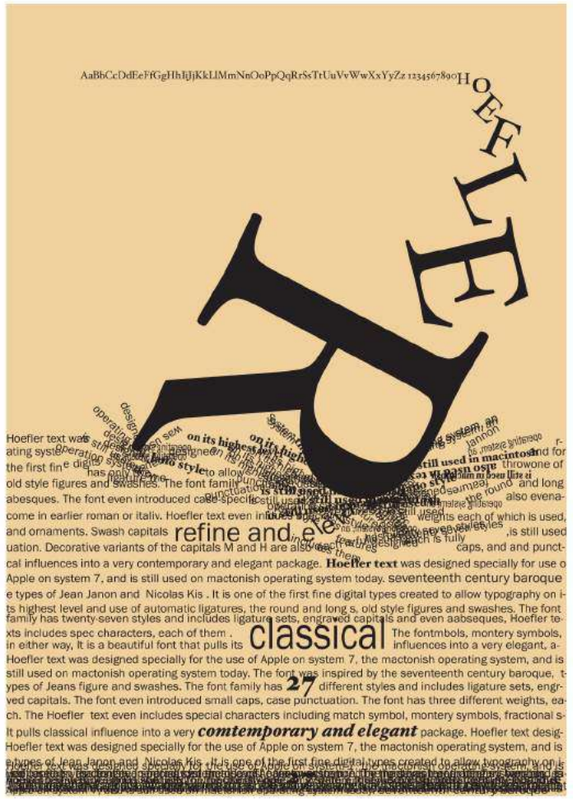
Togetherness where people, activities, and values are weaved together. The social network will be open and flexible for new collaborations to happen.

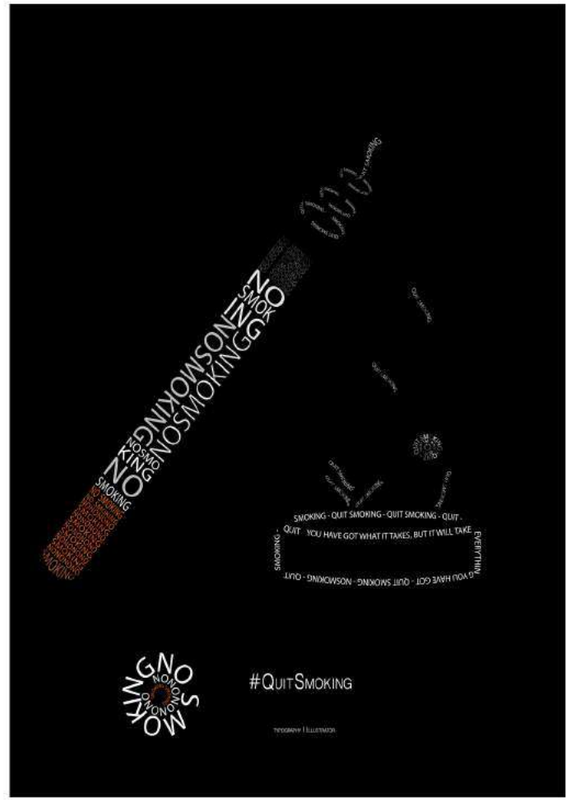


Miscellaneous Projects

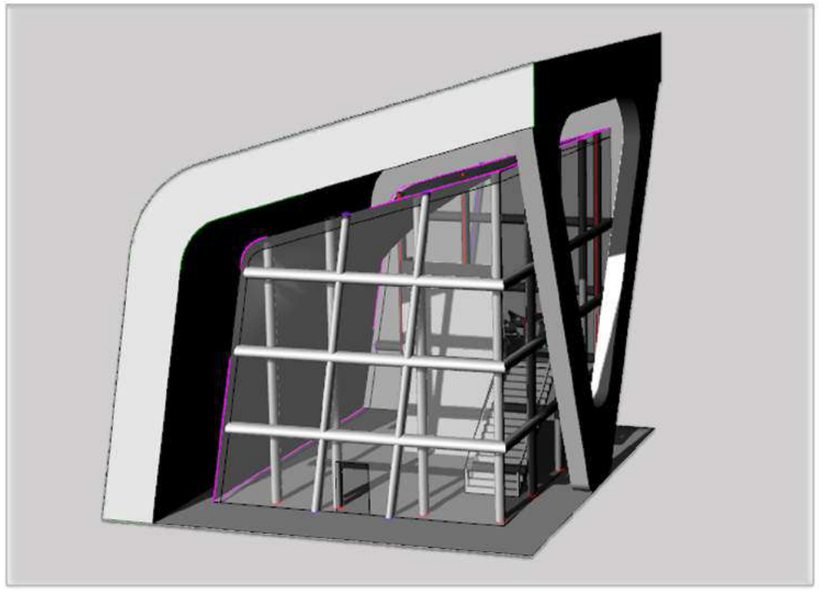
Photoshop and Illustrator

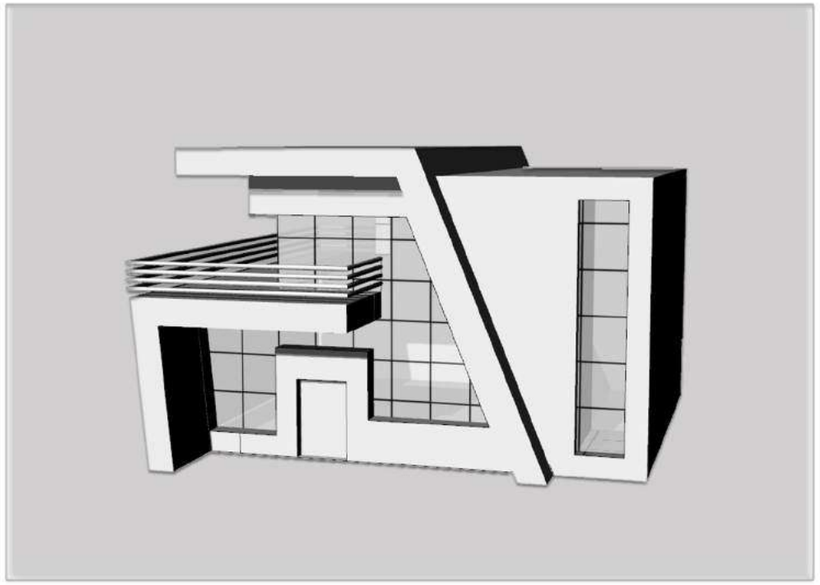


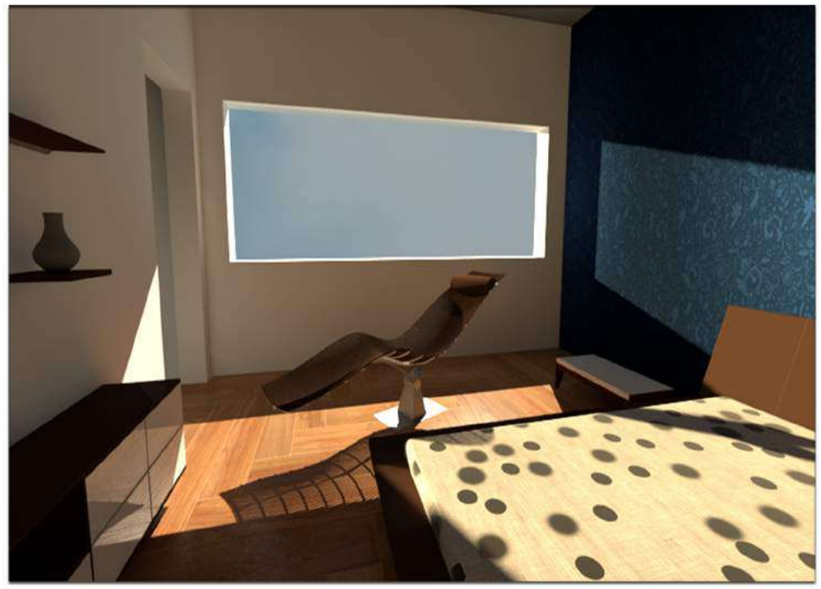




Rhino and Vray







“We shape our buildings, thereafter they shape us.”

Winston Churchill