CONCEPTUAL SHEET

S

- Good metro & road connectivity
- Adjacent green buffer (District Park)
- Institutional zone supports land use

W

- High noise & air pollution from traffic/metro
- Flat site = limited natural features

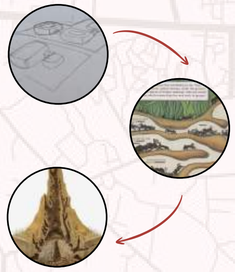
O

- Potential for passive design (courtyards, wind corridors)
- Green park adjacency → scope for landscape integration

T

- Increasing urban density → congestion risk
- Harsh climate extremes → heavy energy demand

Key Concepts from Ant Hill Architecture



Ant hills demonstrate remarkable natural design strategies that inspire sustainable architecture. Their tunnel systems ensure natural ventilation, their thermal mass regulates internal temperatures, and their efficient spatial organization maximizes functionality within compact spaces. These principles can guide building design toward energy efficiency and optimized planning.

- Natural Ventilation: Tunnel networks draw in cool air and expel warm air, inspiring passive airflow systems in buildings.
- Thermal Regulation: Stable internal climate maintained despite external fluctuations, reducing need for artificial cooling/heating.
- Spatial Efficiency: Distinct chambers for nurseries, storage, and waste illustrate optimized zoning in architectural planning.

Central "Queen's Chamber" (Library & IT Labs):

- The main building is designed as a prominent, multi-level mound.
- Subterranean levels house quieter study areas, server rooms, and specialized labs, benefiting from natural thermal regulation.
- Above-ground levels would feature open-plan collaborative spaces, reading areas with views, and innovative tech zones.
- Large, strategically placed skylights or light tubes would penetrate deep into the structure, bringing natural light to even the lowest levels.

Modular "Worker Chambers" (Other Buildings):

- The smaller surrounding buildings are designed as individual, lower-profile mounds or earth-bermed structures.
- They house classrooms, Cabins, offices, student common areas, or specific departmental labs.
- Each would have its own unique entry, possibly mimicking the varied entrances to an anthill.

Interconnected Pathways ("Ant Trails"):

- The current roads and walkways reimagined as a network of covered pathways, some underground and some at ground level, connecting all the buildings.
- These pathways feature natural ventilation, integrated seating, and green walls, making the journey between buildings an immersive experience.
- Clear wayfinding inspired by ant colony navigation could be implemented.

CONCEPT - The Library: Heart of the Campus



The Central Core: Library and IT

- Heart of the Campus: The Library and IT Computer Labs are physically positioned in the geographical center.
- Functional Nexus: Serves as the primary hub for academic resources, technology access, and collaborative learning for all departments.
- Accessibility: Central location minimizes travel time, reinforcing its use as the mandatory convergence point for students and faculty.

The campus is divided into two distinct clusters, connected to the central library.

A)Cluster 1 : Foundational and Core Studies (1800 Students)

- Focus: Core academics, foundational courses, and centralized campus services.
- Key Departments: School of Undergraduate Studies (SUS) and School of Liberal Studies (SLS).
- Additional Functions: Centre for Languages and Learning (CLL) and Centre Publishing (R1.5), due to their service role across the campus.

B)Cluster 2 : Professional and Specialized Programs (3475 Students)

- Focus: Professional education, applied social sciences, and specialized creative programs.
- Key Departments: School of Business (SBPPSE), School of Educational Studies (SES), School of Human Studies (SHS), and Cultural & Creative Expressions (SCCE).
- Facility Needs: Requires more specialized project labs, seminar rooms, and studios due to the nature of the programs.

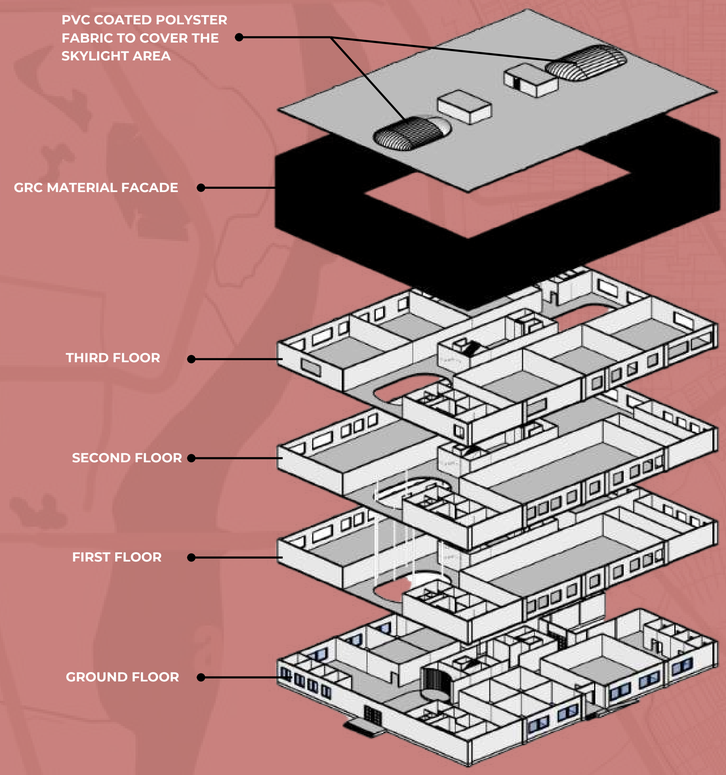
Connectivity and Circulation

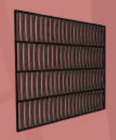
- Walkability: The central zone is designed to be predominantly pedestrian.
- Direct Pathways: Clear, straight pathways connect both Cluster 1 and Cluster 2 directly to the Library, symbolizing and ensuring quick access to the core.
- Academic Quadrangle: The green space surrounding the Library forms the main central quad.
- Purpose: Provides space for outdoor classes, informal gatherings, and community events, promoting interdisciplinary interaction.
- Perimeter Access: Vehicular access is confined to the perimeter roads, maintaining a safe and high-quality environment in the academic core.



The Library: Heart of the Campus

This facade is designed as a modern, climate-responsive screen that embodies the core function of a library—filtering information and providing sanctuary. The wooden louvered system acts as a dynamic "Knowledge Filter," mediating between the bright, harsh exterior of Delhi and the calm, focused interior reading spaces.





GRC Jaali (Lightweight Mass):

To get the aesthetic and sun-blocking benefits without the excessive heat storage and weight, Glass Fiber Reinforced Concrete (GRC) is the superior choice.

- Lightweight: GRC is significantly lighter than traditional concrete, allowing for easier, faster, and cheaper installation, and it reduces the load on the main structure.
- Versatile: It can be cast into intricate, thin, and precise patterns that would be difficult with standard concrete.
- Weather Resistance: GRC offers excellent resistance to Delhi's temperature fluctuations, rain, and UV exposure.

PVC-Coated Polyester

This is the most common and versatile fabric for outdoor shading solutions, including tensile structures over large skylights.

- Heat Reduction: Can be manufactured with a highly reflective white or light-colored coating on the exterior surface. This dramatically increases the Solar Reflectance of the fabric, reflecting a large percentage of solar radiation before it enters the building.
- Durability: It is waterproof, fungi/UV-resistant, and highly durable against Delhi's intense heat and monsoon rains.
- Light Control: The fabric can be specified with varying degrees of openness (from 0% for blackout to around 5-10% for light diffusion) to manage glare.

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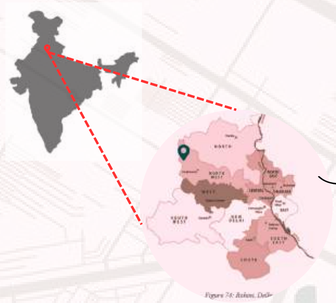
SITE ANALYSIS

Rohini,Delhi

LOCATION:
Sector-3, Rohini, Delhi-110085
COORDINATES: 28.701037, 77.113076
SITE AREA : 7.3 hectares (73,000 sq.m).
LAND USE (Master Plan of Delhi 2021): Public and Semi-Public Facilities
OWNERSHIP : Delhi Government





CONNECTIVITY & ACCESSIBILITY
Road Access:
Major approach via 25m wide road from the west
Secondary 18m wide road on the north
Public Transport:
Rithala Metro Station – 1.5 km
Bus connectivity along main road
Airport: ~30 km away (IGI Airport)



SITE CHARACTERISTICS

- Topography: Flat terrain with minor slope towards east
- Soil Type: Alluvial soil, medium bearing capacity (~10-15 t/m²)
- Vegetation: Sparse shrubs, few existing trees on edges
- Water Table: ~20–25 m deep (Delhi Jal Board data)

TOPOGRAPHY
Coordinates 28.6969° N, 77.1104° E
Maximum elevation: 251 m
Minimum elevation: 206 m
Average elevation: 217 m



Temperature Range:
Summer Max: 45°C
Winter Min: 4°C

ACCESSIBILITY & URBAN CONTEXT

- The site is well connected to - Outer Ring road – 0.6 km
- Metro station – Rohini East - 2.4 km , Rohini West - 3.1 km , Pitampura - 3.1 km
- New Delhi Railway Station – 15 km
- IGI International Airport - 19.6km
- Bus stands nearby are Pushpanjali Enclave Bus Stand, Kali Mandir Bus Stand,
- Naharpur Village Bus Stand, Rohini Sector -7 Bus Stand.

SURROUNDING CONTEXT
North: Residential neighborhood (DDA Housing)
South: Commercial development & Metro line
East: Institutional zone (schools, colleges)
West: District Park (green buffer)



Figure 3: Site Surroundings

CLIMATOLOGY
A monsoon influenced humid subtropical with high variation between summer and winter temperatures and precipitation.

Season	Months	Temperature	Humidity	Precipitation
Summer	April – June	Hot	Very low - Normal	Low
Monsoon	July - September	Pleasant	High – Very high	Heavy
Autumn	October - November	Warm	Very low – Low	Very Low
Winter	December - January	Cold	Low	Low
Spring	February - March	Warm	Very low – Low	Good

Figure 81: Temperature, Humidity and Precipitation

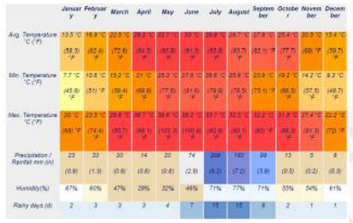
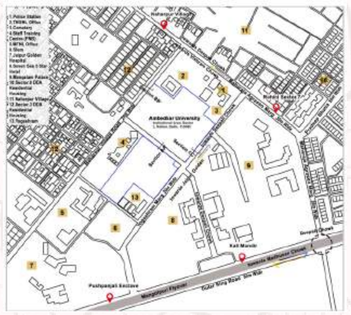


Figure 82: Temperature

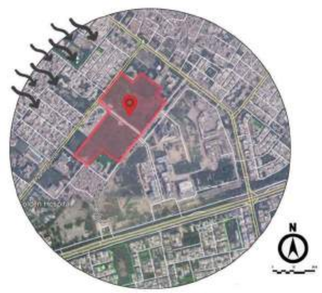


SUN PATH

- Latitude: ~28.7° N
- Sunrise (summer): ~5:40 am (NE)
- Sunset (summer): ~7:15 pm (NW)
- Day length (summer): ~13.5 hrs
- Solar Noon: ~12:15 pm, Sun due south, altitude ~50°
- Path: East → South → West arc



Map: Sun Path Diagram



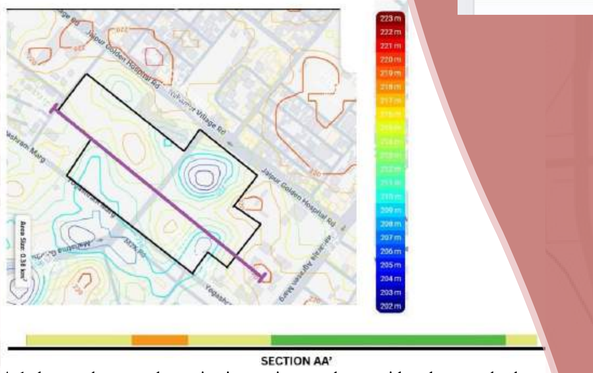
Map: NW Wind Direction

Rainfall: ~800 mm annually (monsoon season July–Sept)
Wind Direction:
Summer: From West / Southwest
Winter: From North / Northwest

ZONING REGULATION

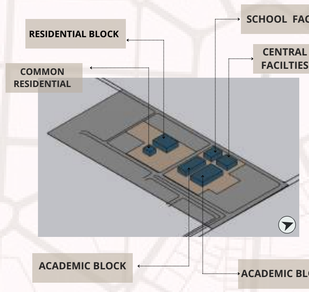
- Site designated as Institutional Land (MPD-2021).
- Must follow DDA/PWD norms: FAR, ground coverage, height & setbacks.
- Development to comply with green building benchmarks (GRIHA/LEED).





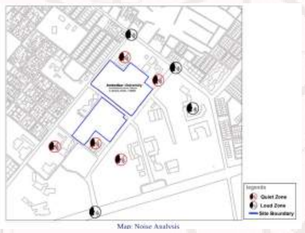
SECTION AA'

A 1-degree slope on the main site section can be considered as nearly the flat land.

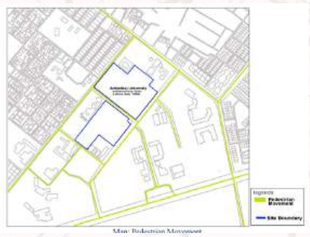


Zone	Area (m2)	Ground Coverage (Approx)	Floors
Central Facility	26000	6500	4
Academic Clusters	47500	9500	5
School Facility	1000	1000	
Residential	38000	6300	6
Common Residential	4250	1416	3
Total	**116750**	**24716**	
Basement	31680		
Total +Basement	**148430**		

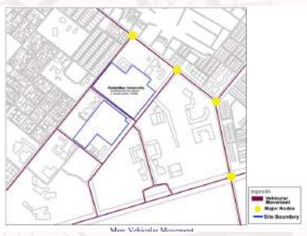
SITE ZONING



Map: Noise Analysis

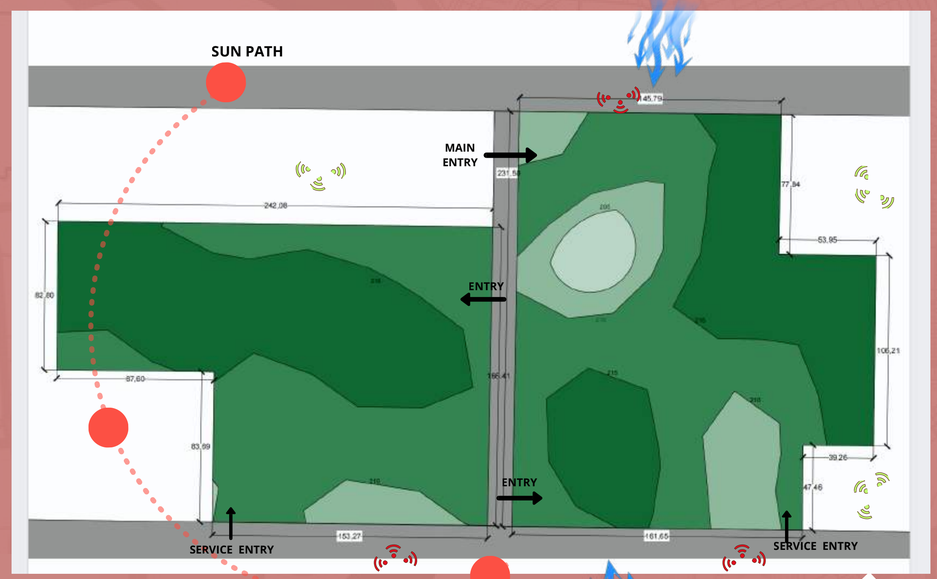


Map: Pedestrian Movement



Map: Vehicular Movement





SITE & MASSING SOLUTION

- Place buffers on NW–W–N edges (trees, service blocks, solid walls) to cut loo + winter winds.
- Open towards SW to catch monsoon breezes — orient main courtyards and operable windows that way.
- Step the height S→N (taller on south/west, lower on north/east) to self-shade and pull soft north light.
- Create a shaded academic spine (N–S) linking blocks; use jaali/vertical fins on W–SW façades.
- Public in front, quiet academic inside (plaza + lobby + gallery near entry; classrooms, library, faculty around
- courtyards; services/parking along NW/NE).

FACADE & PASSIVE MOVES

- W/NW façades: thick wall, recessed windows, vertical fins/jaali, green belt.
- S/WSW façades: deep overhangs, verandahs.
- Roofs: vents/solar chimneys over courts, cool roof + PV, skylights with baffles.
- Courts: water + trees for evaporative cooling, permeable paving for monsoon.
- Studios/Classrooms: long side to N/NE, secondary openings to SW.
- Library/Reading: North.
- Auditorium: NW/W (acts as wind buffer).
- Cafeteria: SW court (evening breeze).

SETBACK REGULATION

The total site area of the campus is approximately 73,000 square meters, placing it in the category of plots larger than 10,000 sqm. Therefore, the mandatory minimum setbacks are:
·Front Setback: 15 meters
·Rear Setback: 12 meters
·Side Setbacks (each side): 12 meters

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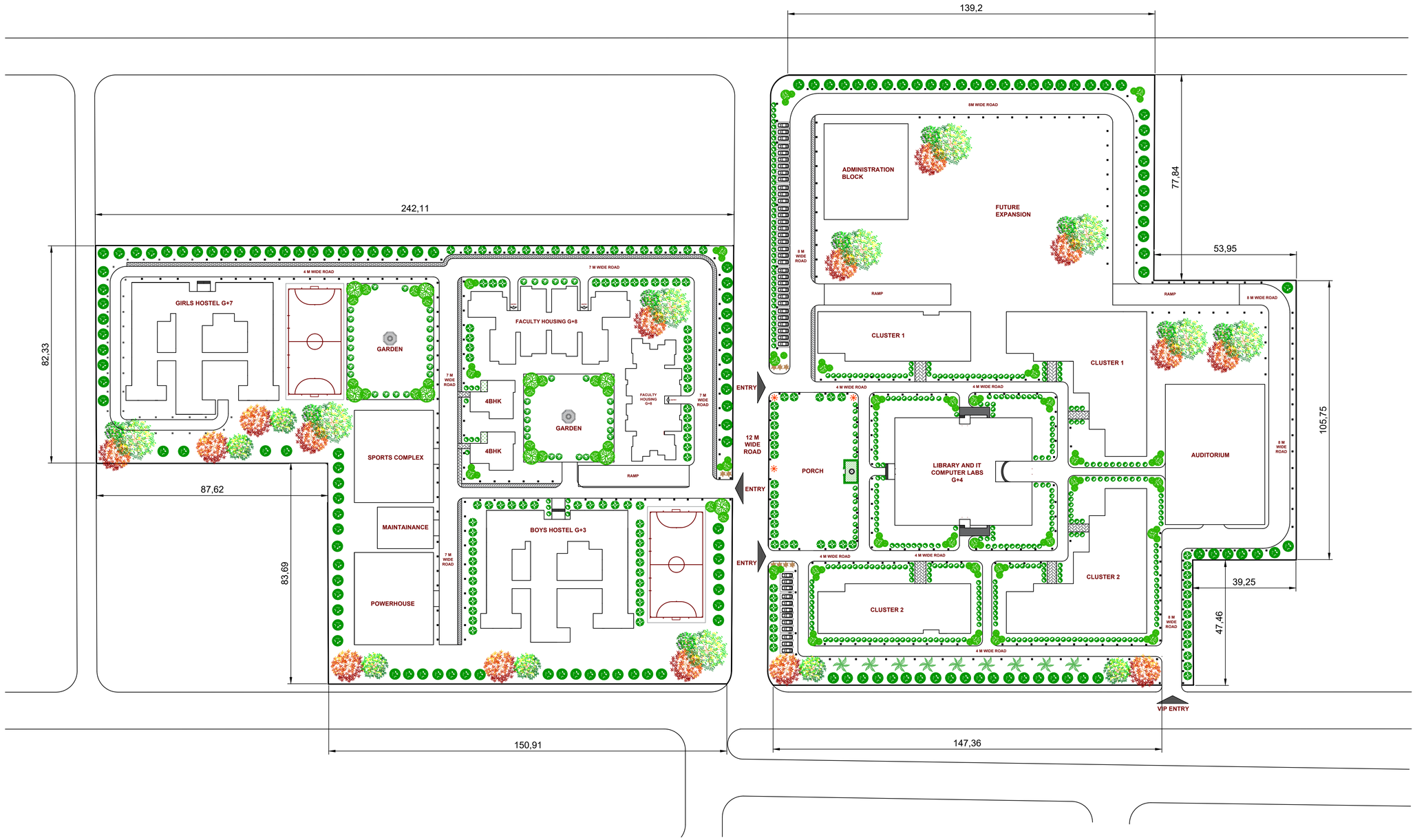

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BATCH : 2021-2026

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PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:

SITE PLAN

SCALE
1 : 800

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03

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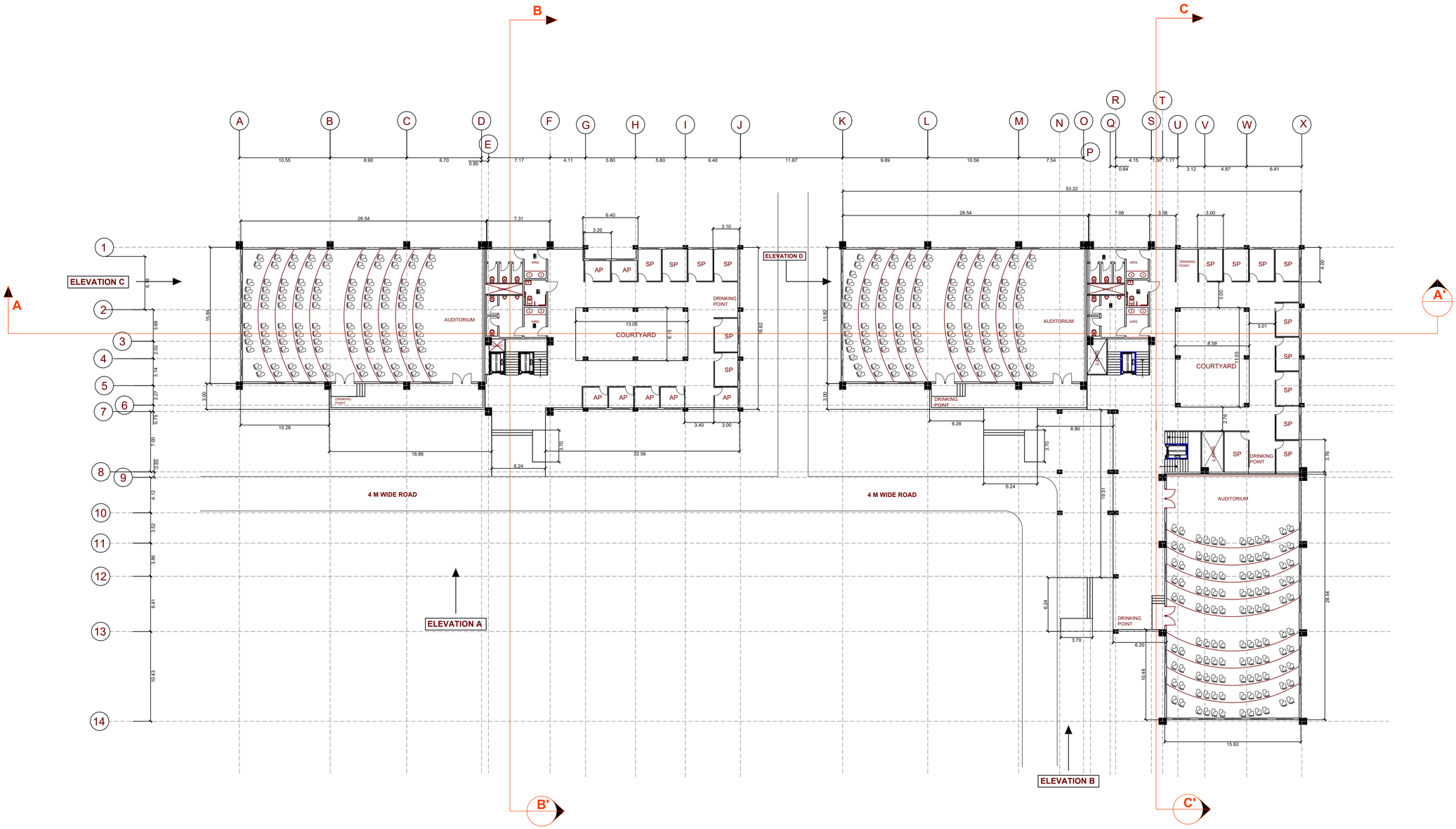

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TITLE:
CLUSTER 1
GROUND FLOOR PLAN

SCALE
1 : 250

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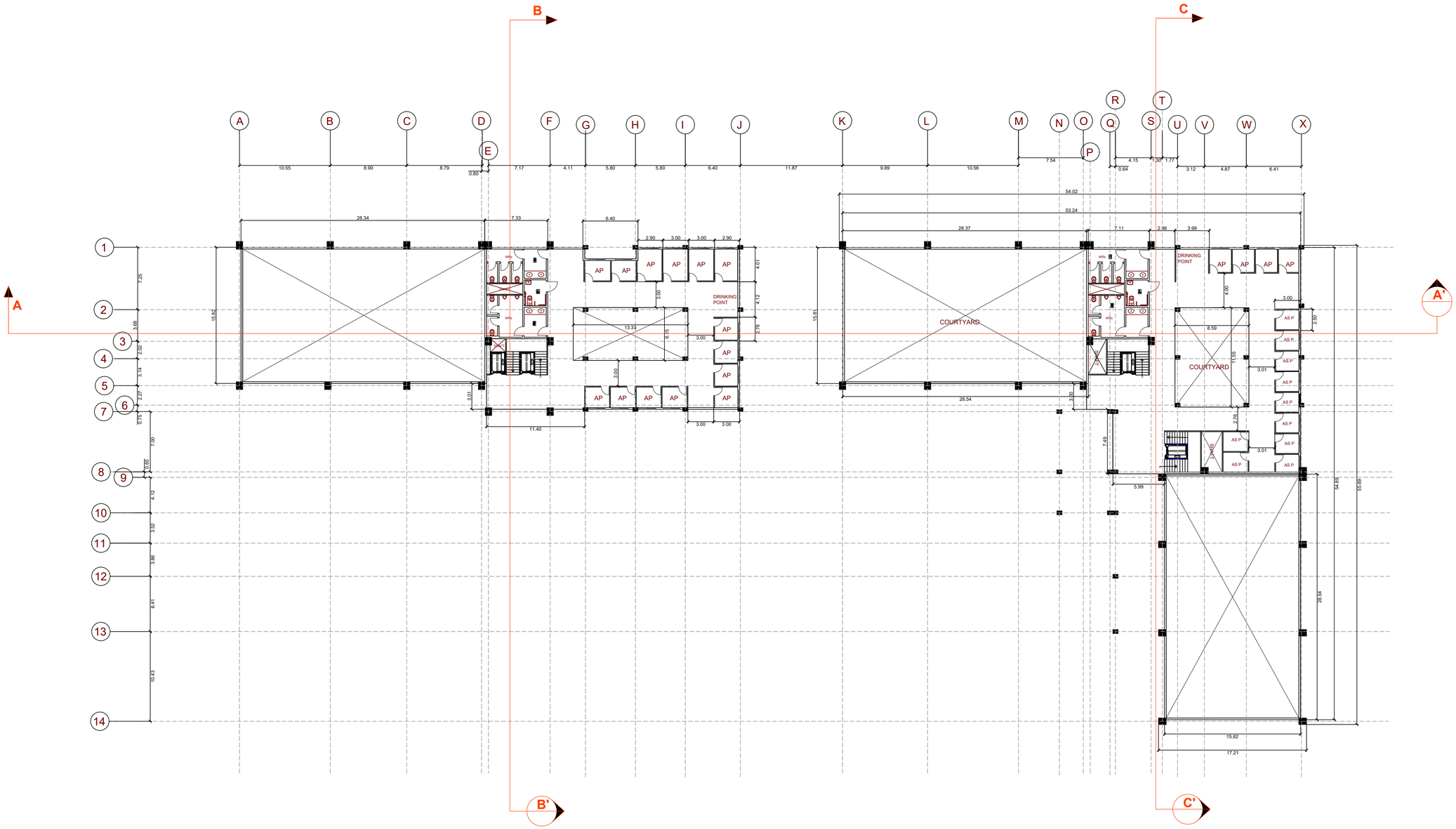

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TITLE:
CLUSTER 1
FIRST FLOOR PLAN

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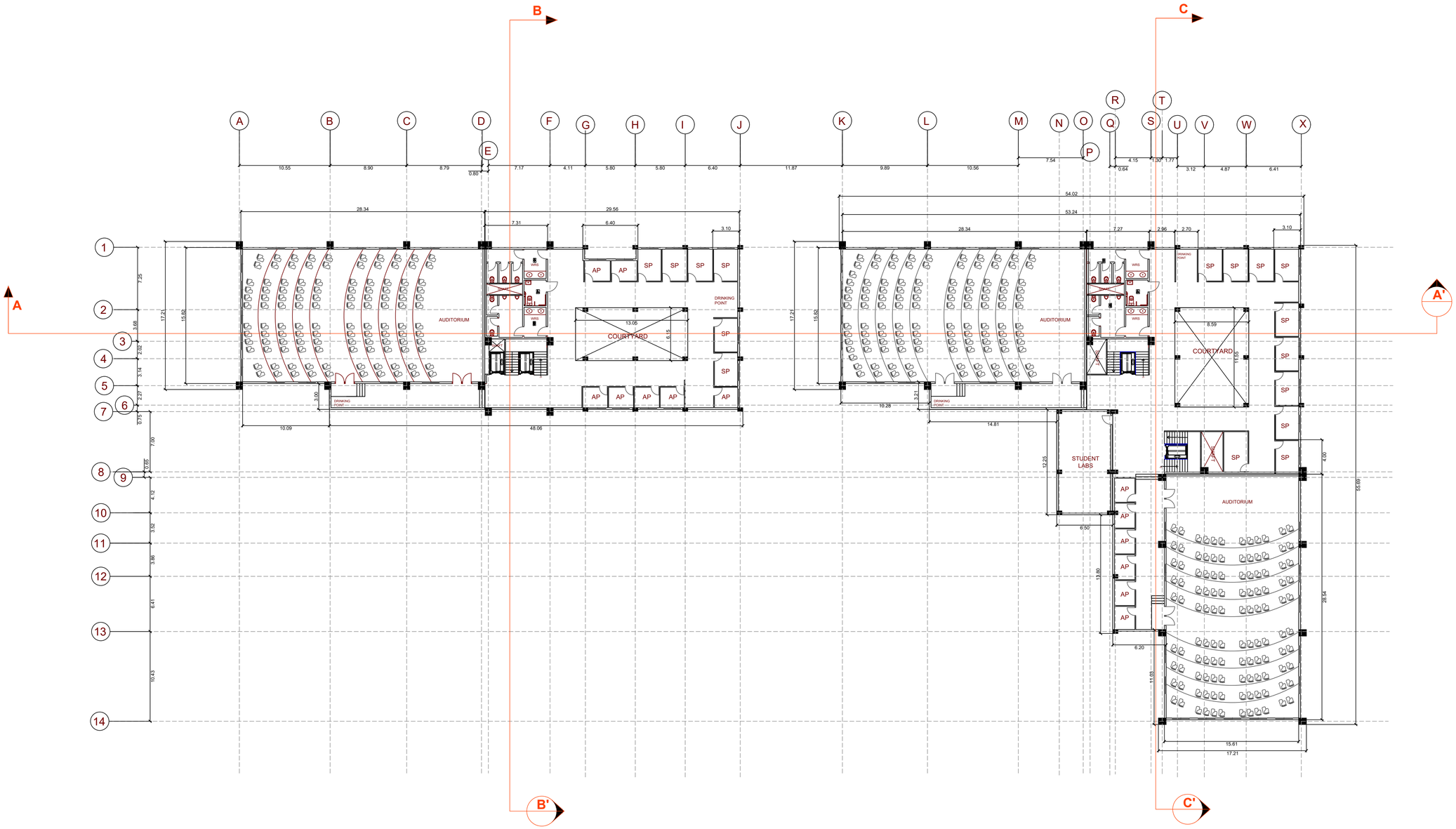

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TITLE:
CLUSTER 1
SECOND FLOOR PLAN

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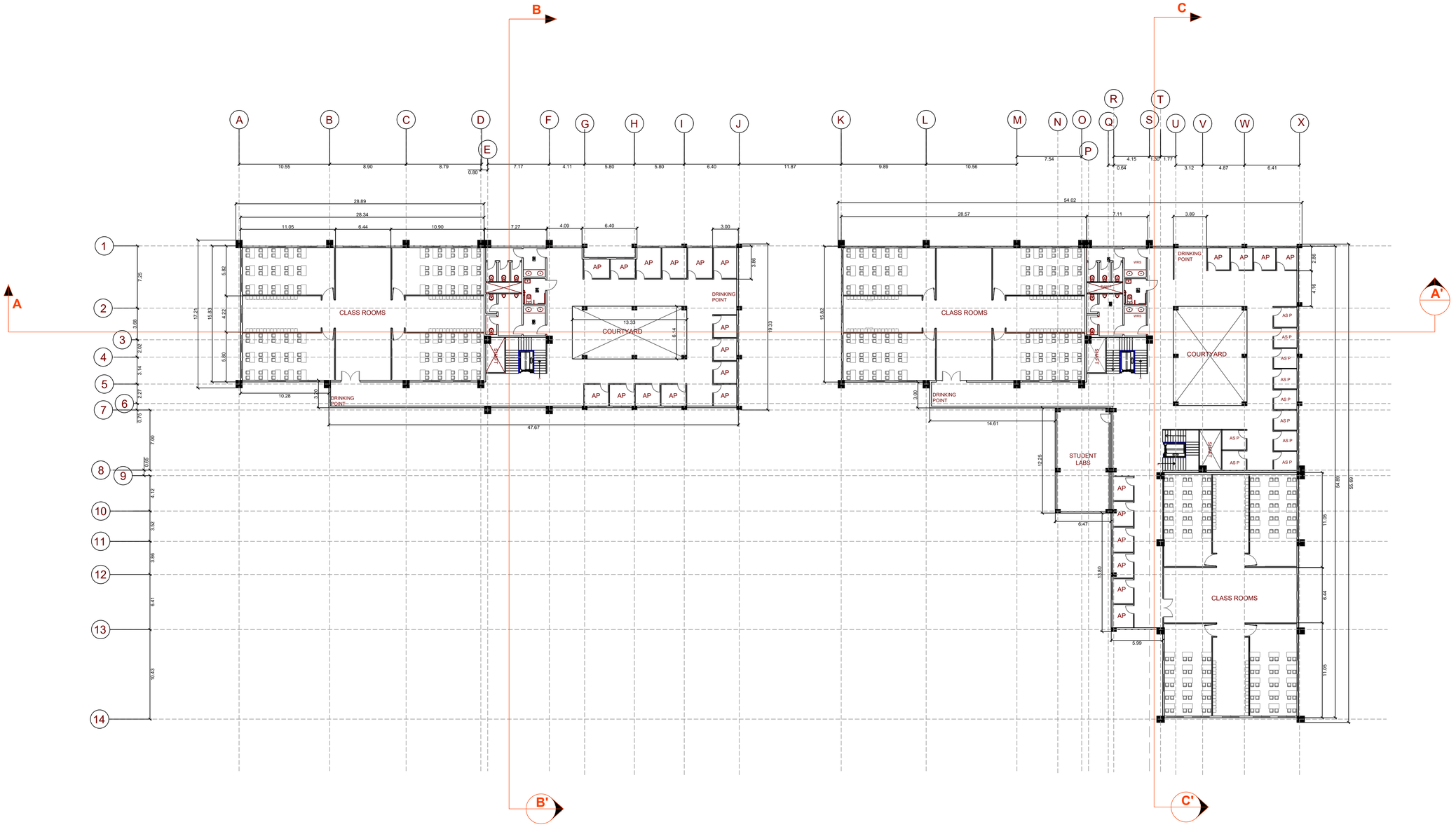

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TITLE:
CLUSTER 1
THIRD FOURTH AND FIFTH FLOOR PLAN

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1 : 250

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07

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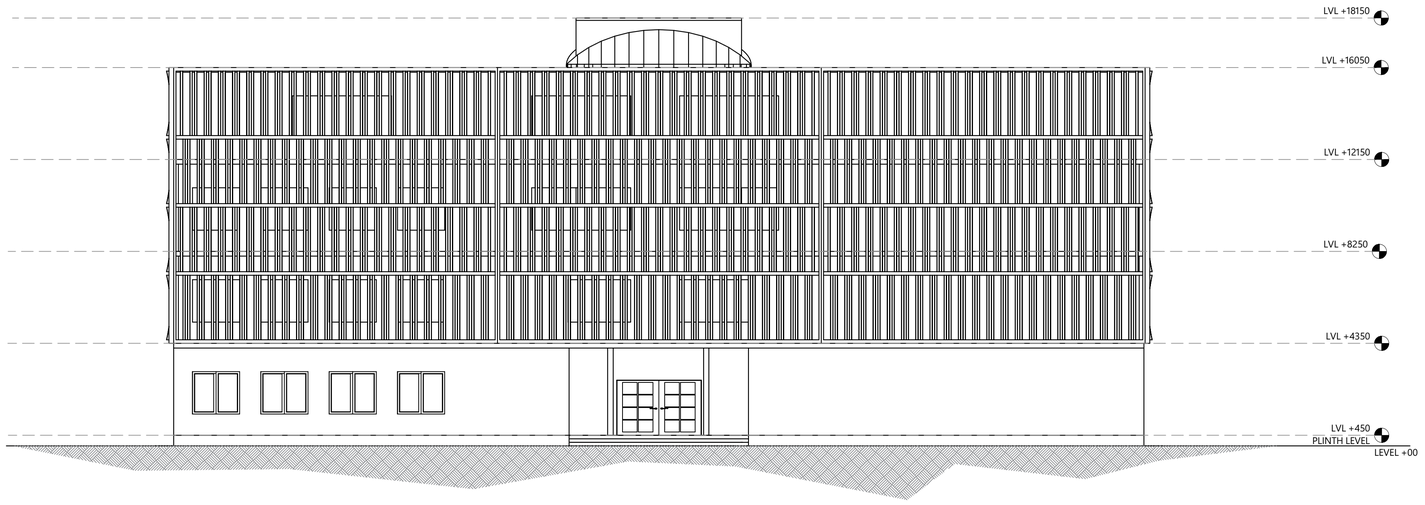
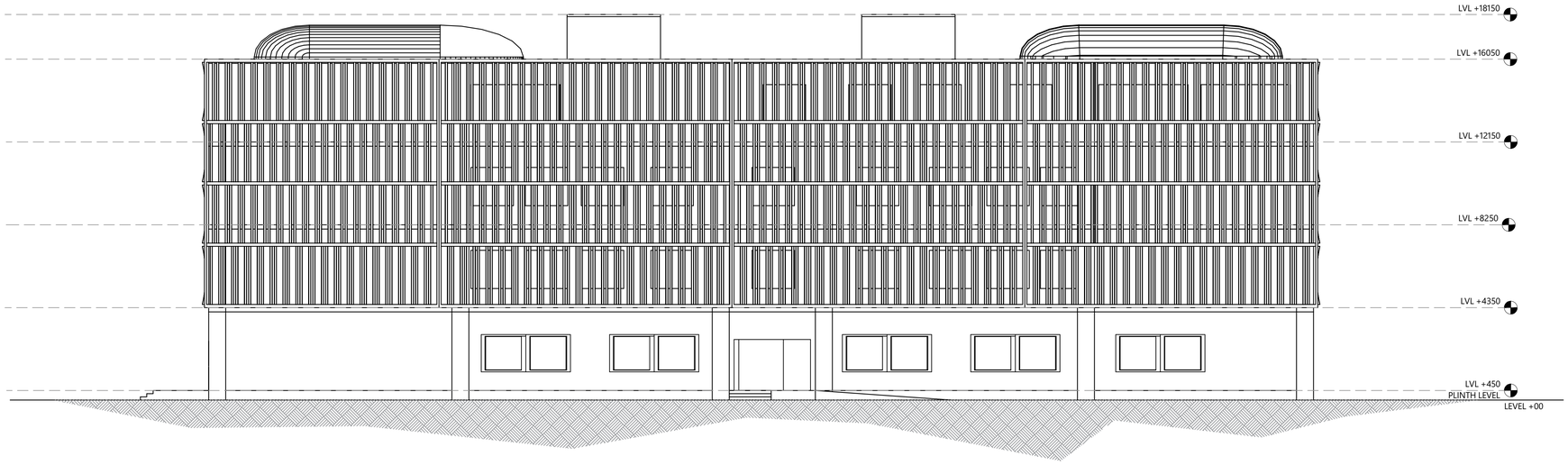
LIBRARY - FRONT ELEVATION



LIBRARY - SIDE ELEVATION



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TITLE :
LIBRARY - ELEVATION

SCALE **1 : 130**	
DRAWING NO. **09**	**NORTH**

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ELEVATION A



ELEVATION B



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TITLE :
CLUSTER 1 ELEVATION

SCALE
1 : 130

DRAWING NO.
10

NORTH

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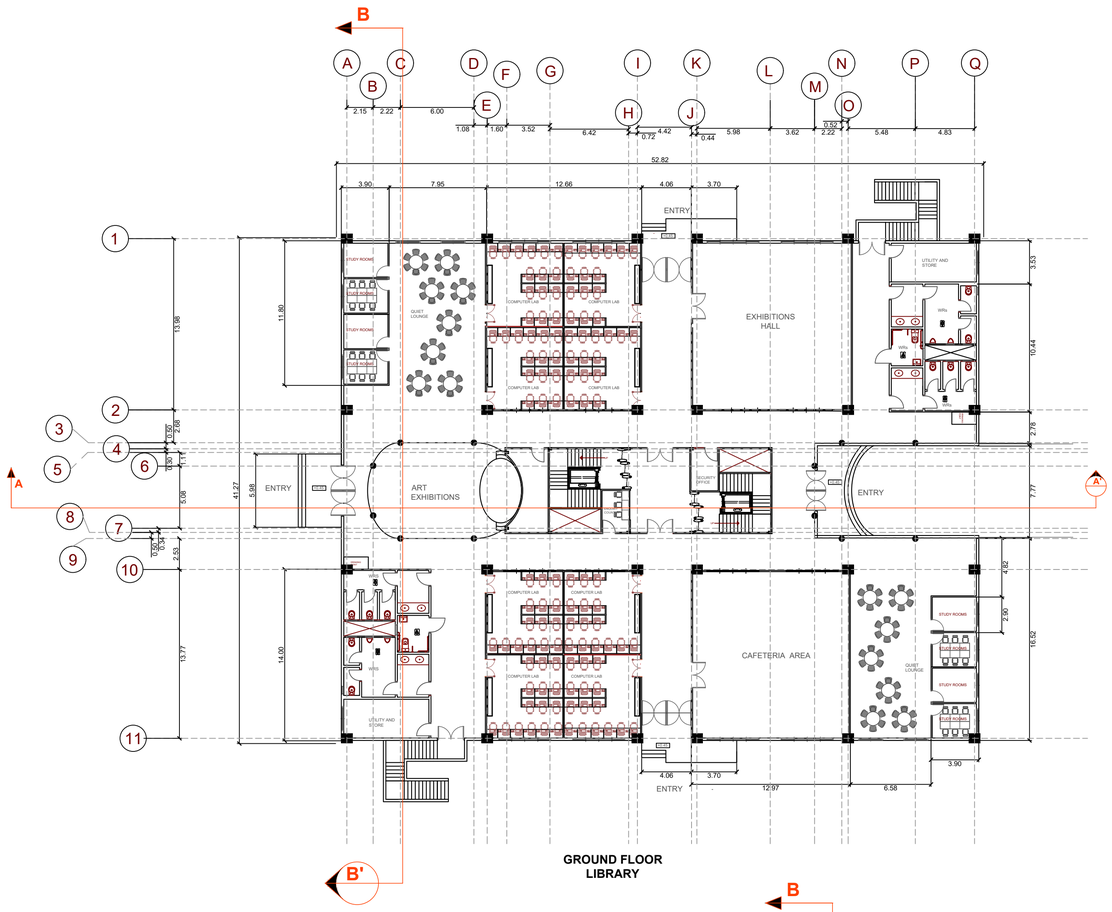
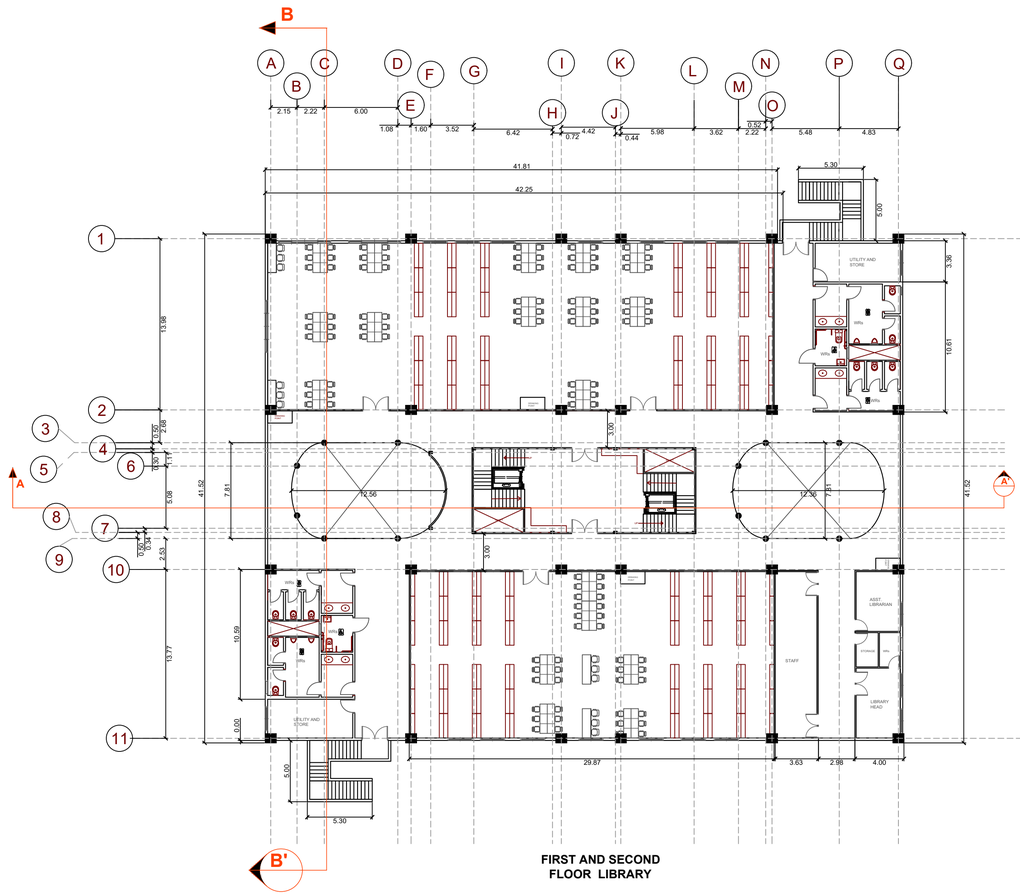
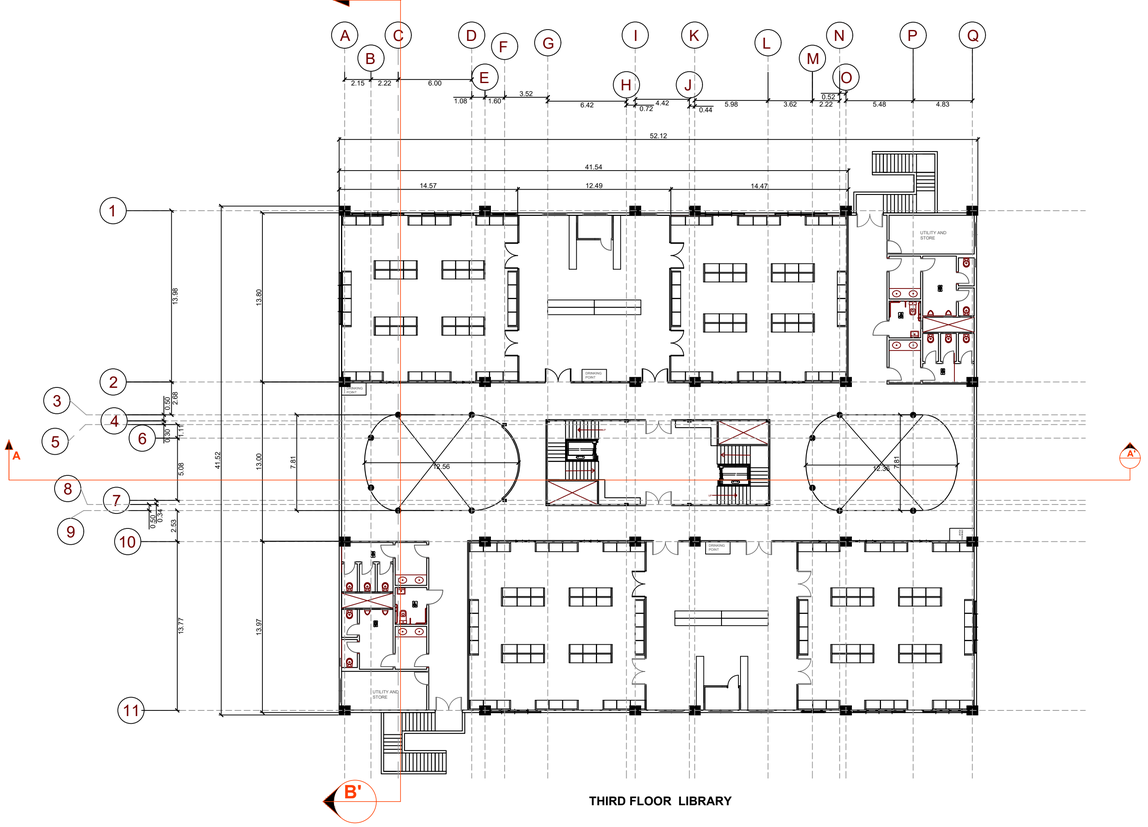


GROUND FLOOR
LIBRARY



FIRST AND SECOND
FLOOR LIBRARY



THIRD FLOOR LIBRARY

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SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:
LIBRARY AND IT COMPUTER LABS FLOOR PLAN

SCALE
1 : 250

DRAWING NO.
08

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
2/12/2025

JOB NO.

DEALT BY:
YASHRAJ

SEAL & SIGNED BY:Thesis Guide
Dr. Vinay Mohan Das Sir

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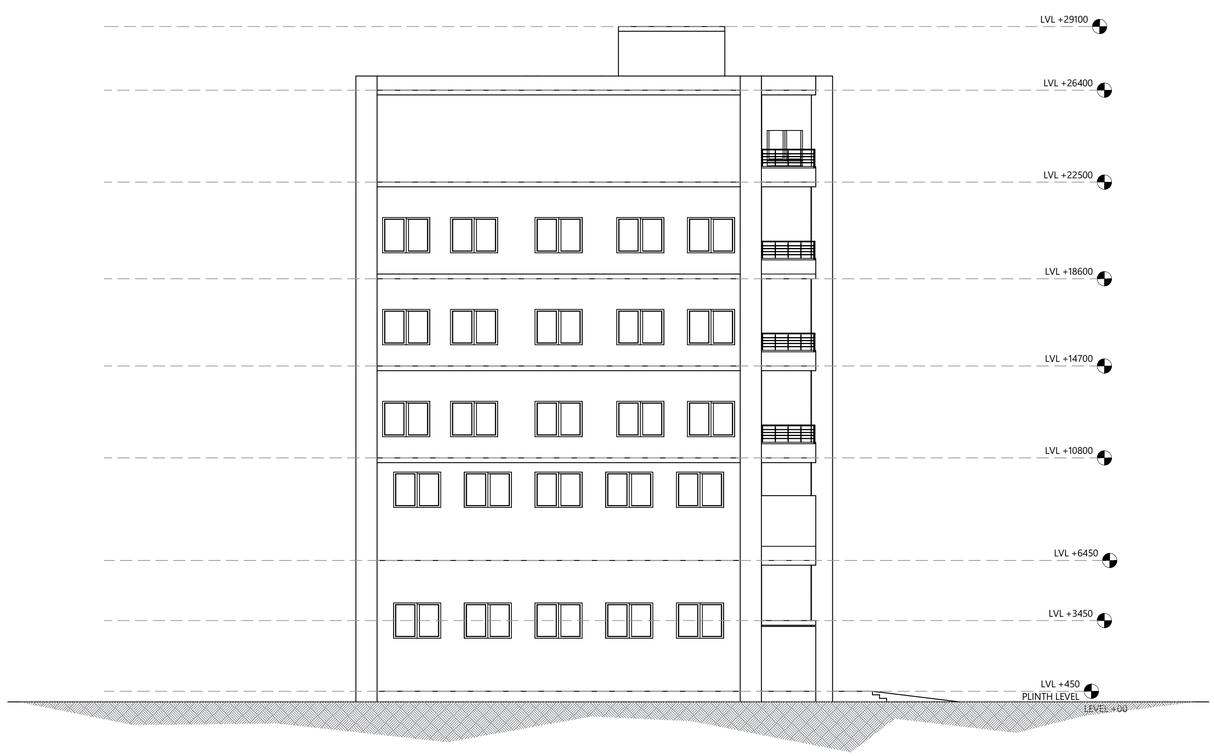
ELEVATION D



ELEVATION C



YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
CLUSTER 1 - ELEVATION

SCALE
1 : 130

DRAWING NO.
11

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

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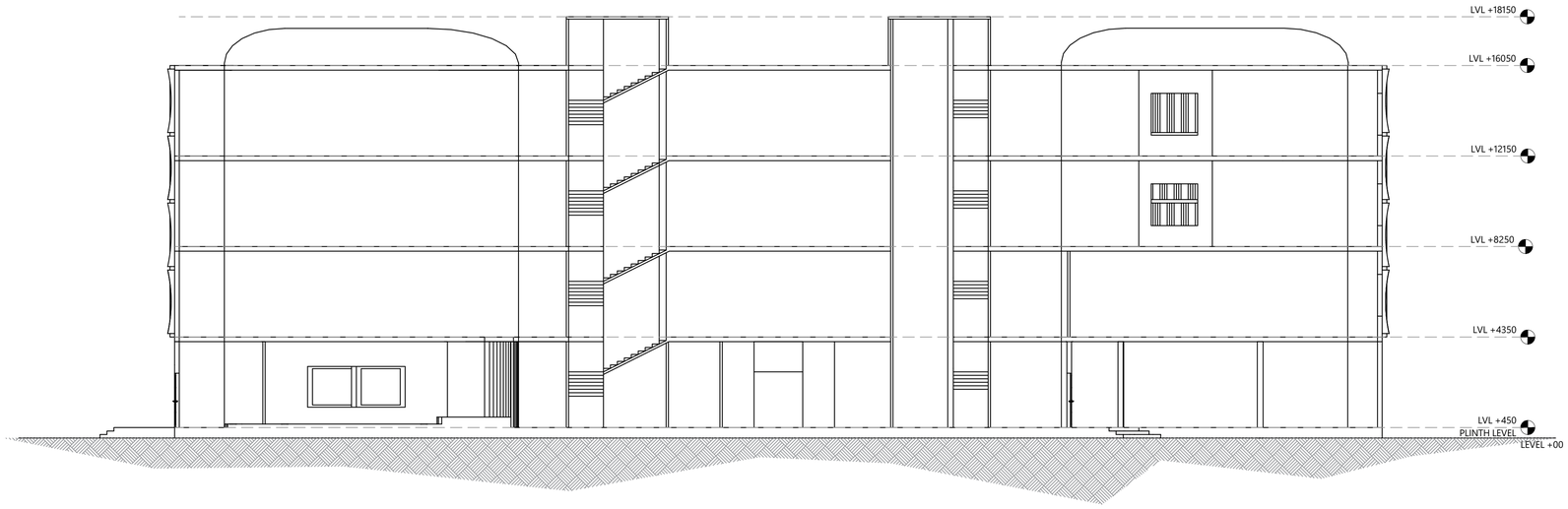
SECTION AA'



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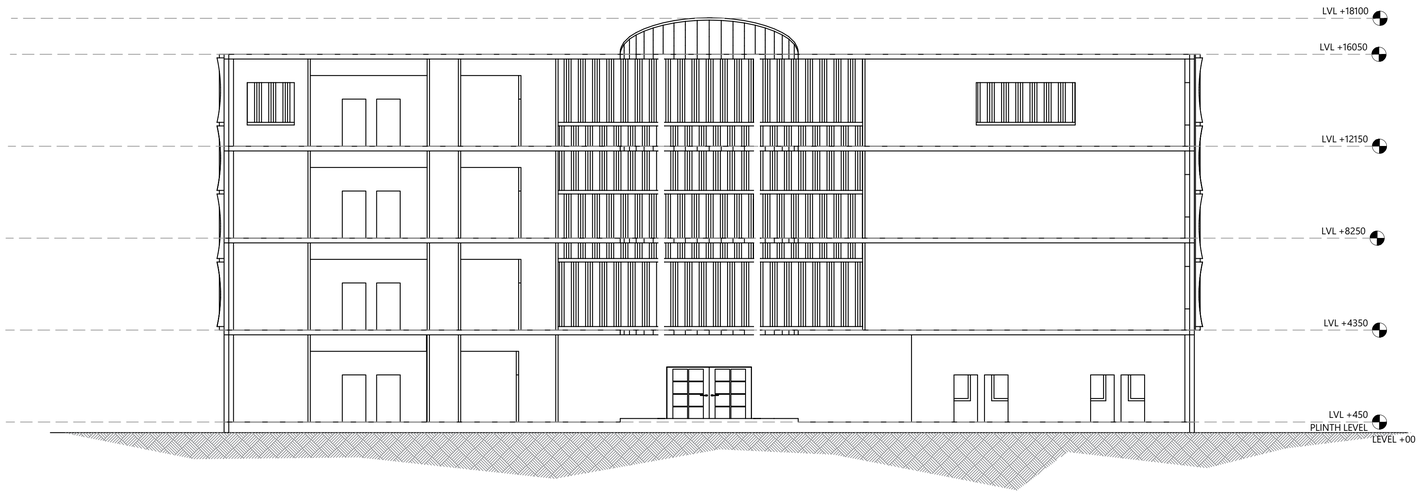

YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
LIBRARY SECTION

SCALE
1 : 130

DRAWING NO.
12

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

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CLUSTER 1 - SECTION AA'





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SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
CLUSTER 1 - SECTION

SCALE
1 : 130

DRAWING NO.
13

NORTH

DISCIPLINE: DRAWINGS

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CLUSTER 1 - SECTION CC'



CLUSTER 1 - SECTION BB'



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SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
CLUSTER 1 - SECTION

SCALE
1 : 130

DRAWING NO.
14

NORTH

DISCIPLINE: DRAWINGS

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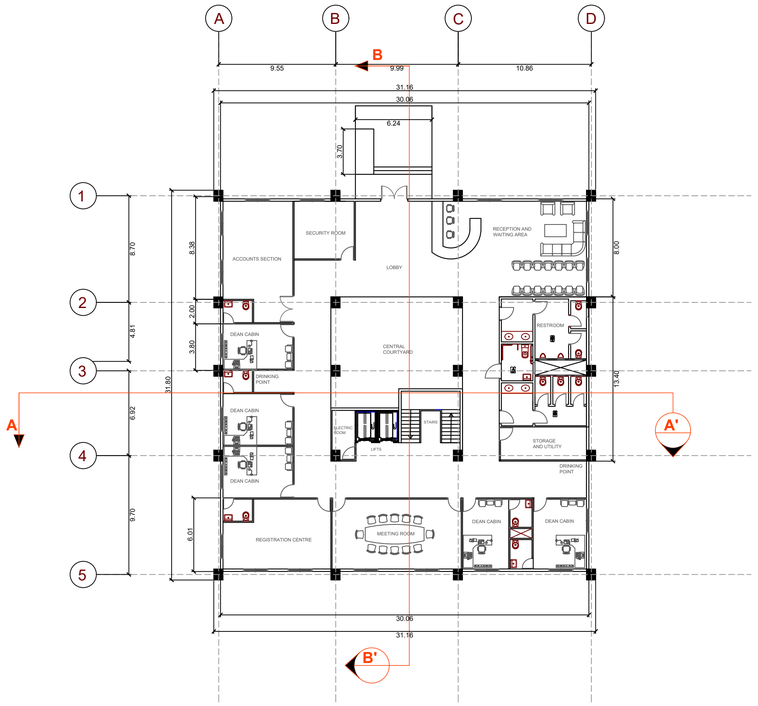
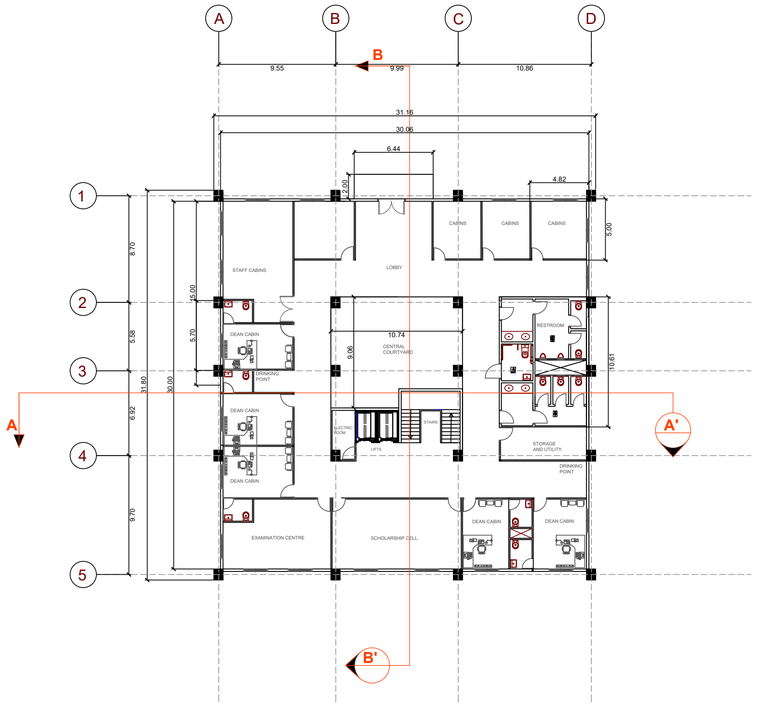
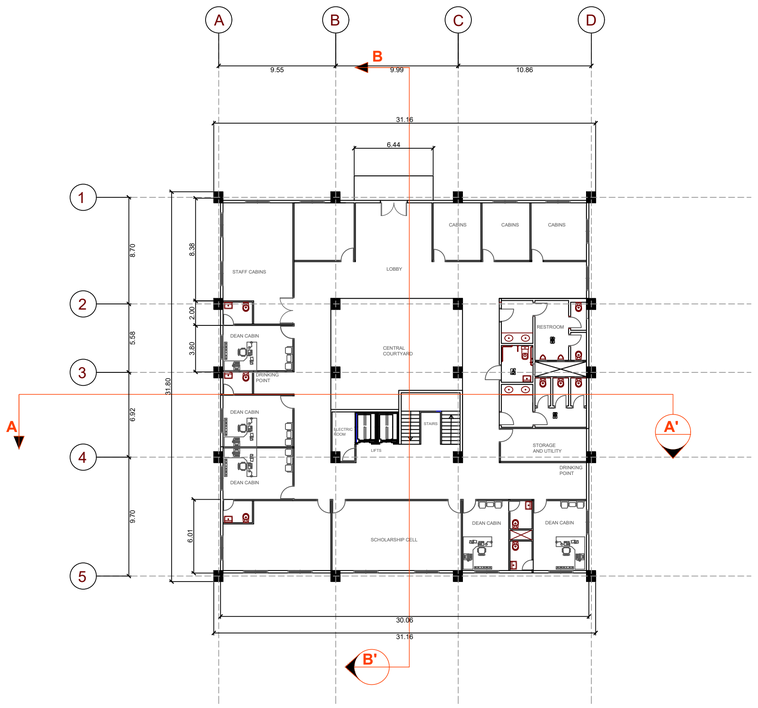


GROUND FLOOR



FIRST FLOOR



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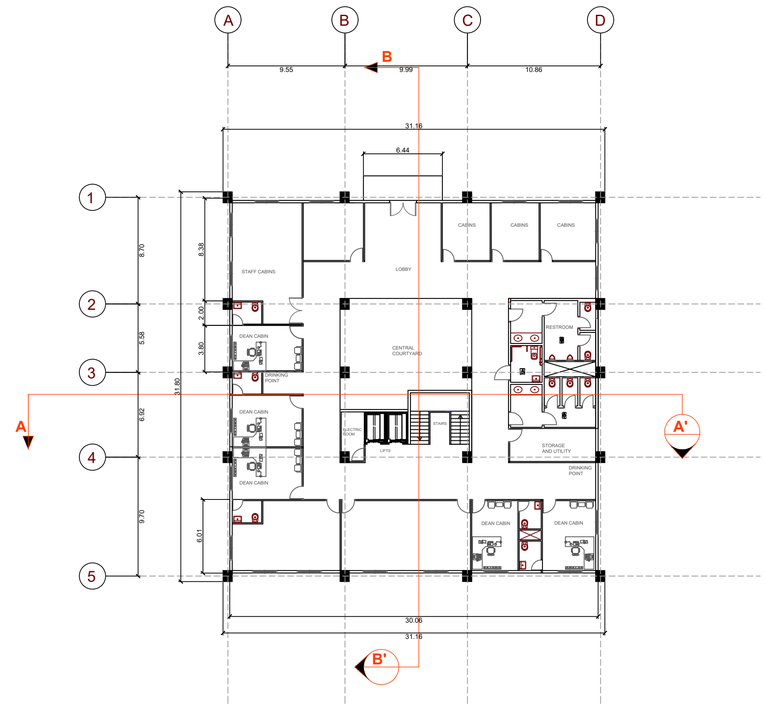

THIRD FLOOR

YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:
ADMINISTRATION
FLOOR PLAN

SCALE
1 : 250

DRAWING NO.
15

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
2/12/2025

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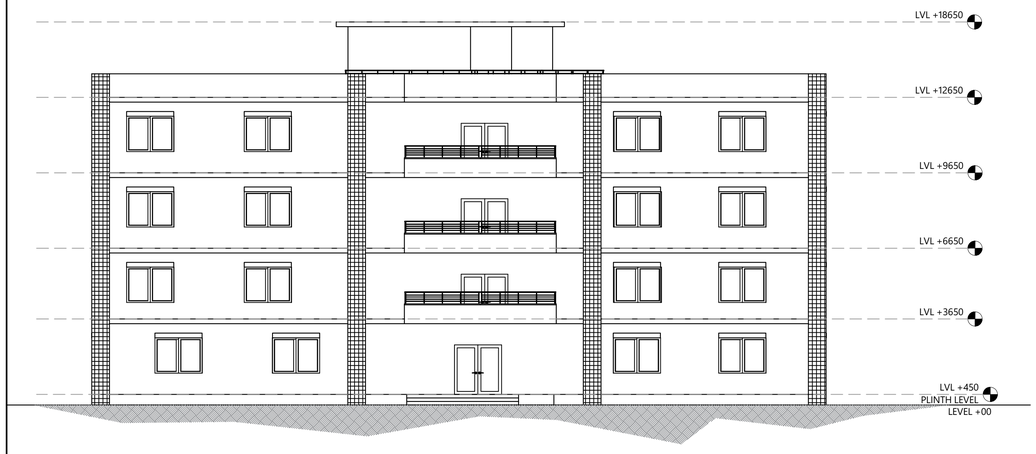
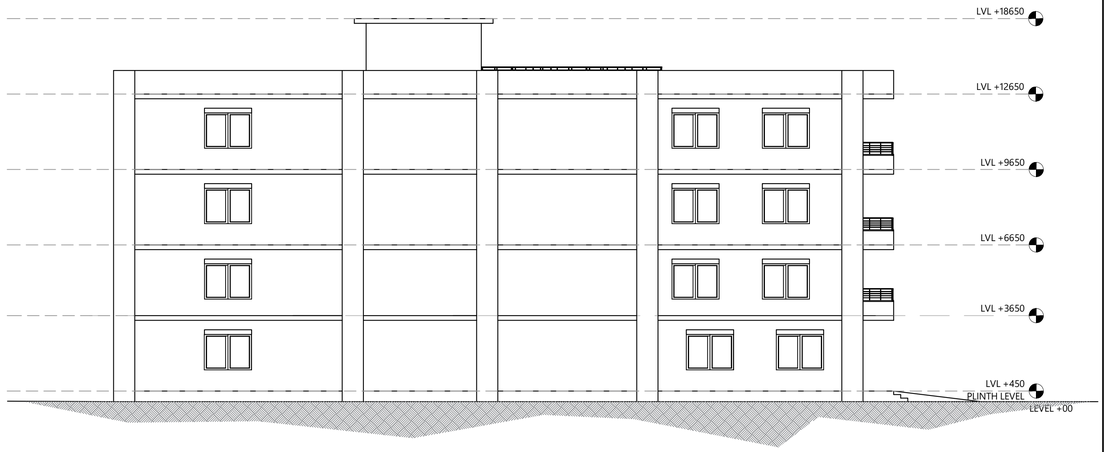
ELEVATIONS

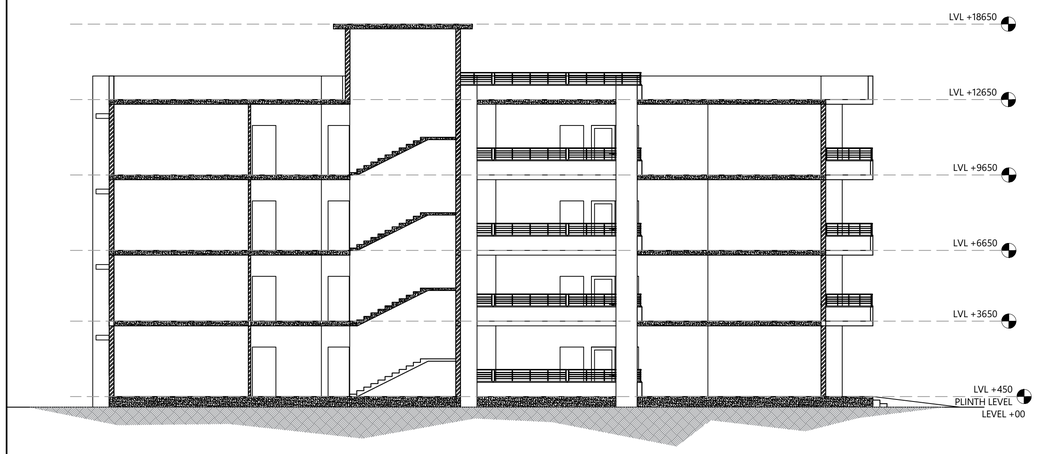


FRONT ELEVATION

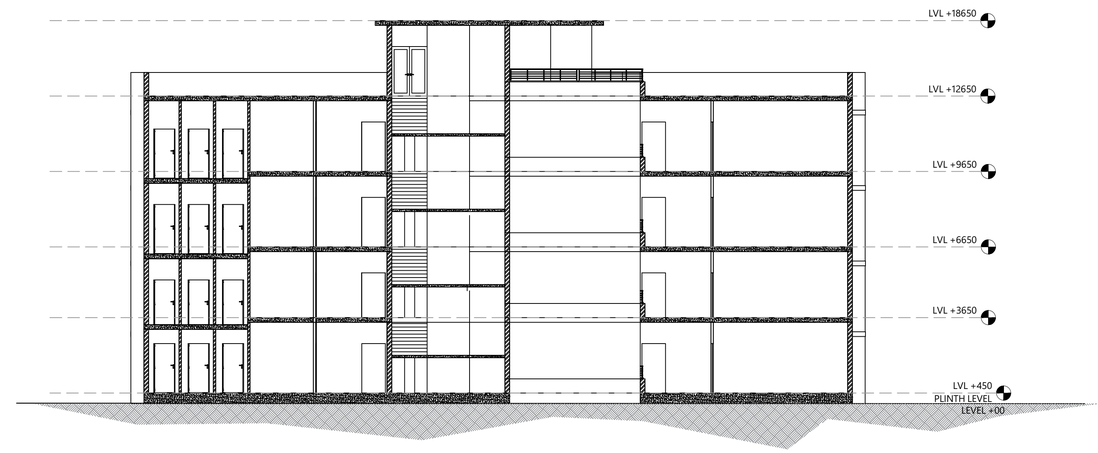


SIDE ELEVATION

SECTIONS



SECTION BB'



SECTION AA'

YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
ADMIN - ELEVATION AND SECTIONS

SCALE
1 : 130

DRAWING NO.
16

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
2/12/2025

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DEALT BY:
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SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
FACULTY HOUSING

SCALE
1 : 130

DRAWING NO.
17

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
2/12/2025

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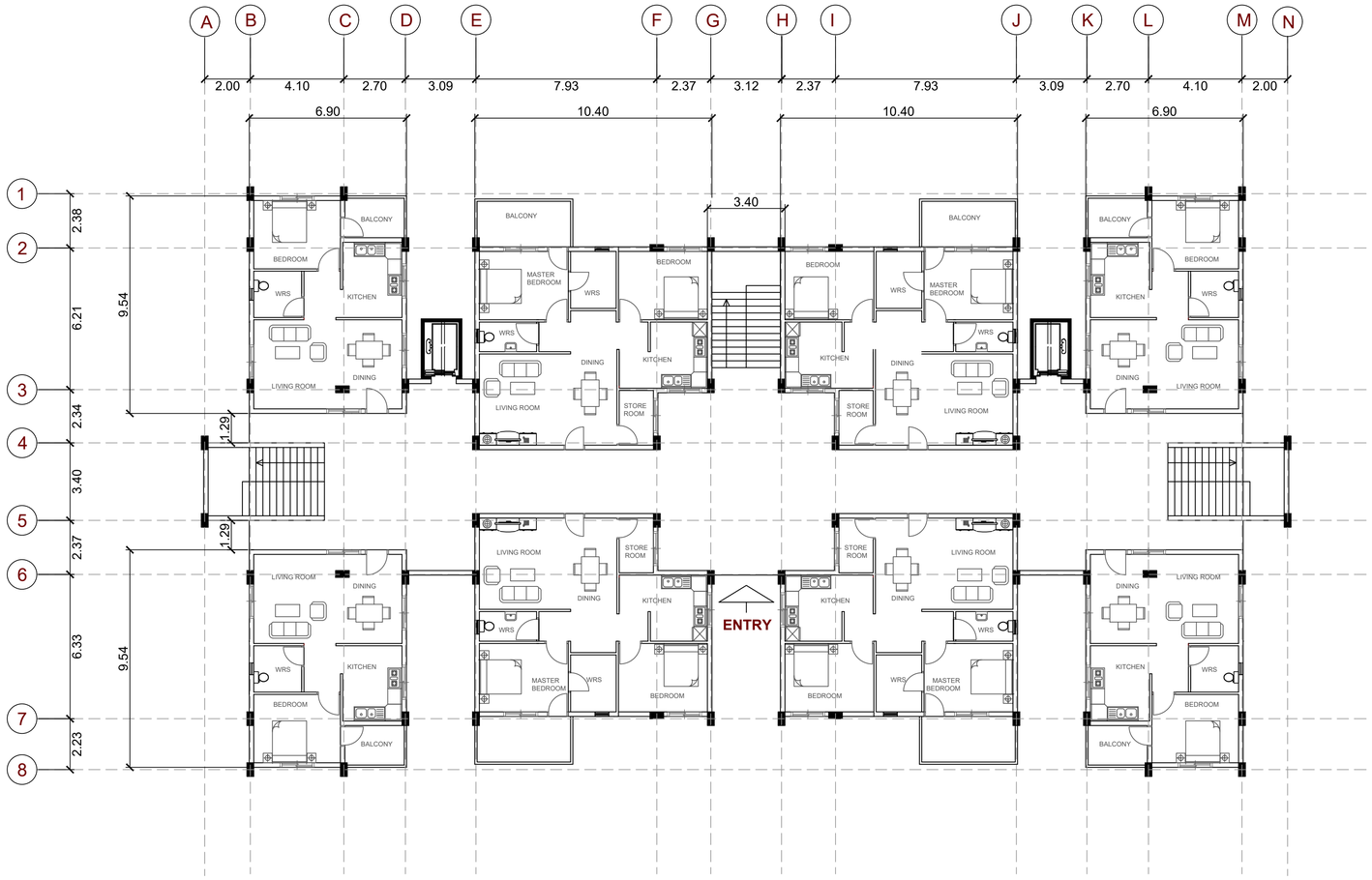
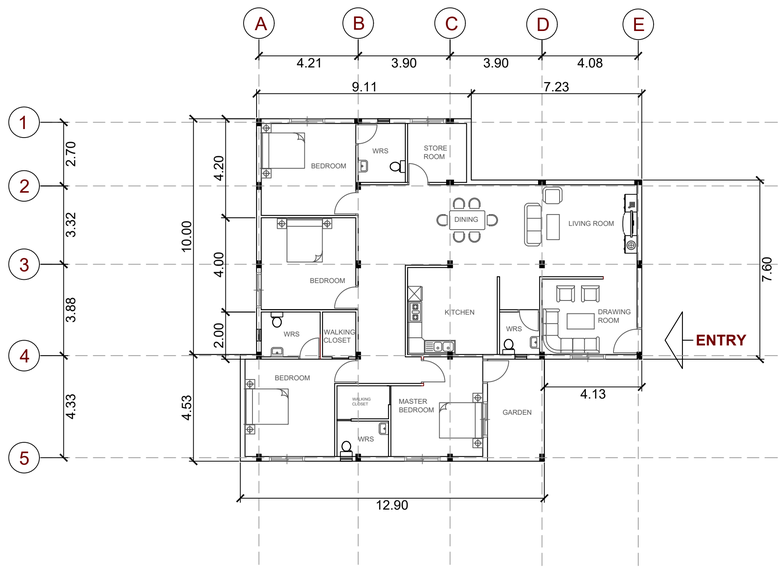
FACULTY HOUSING
TYPE 02 AND TYPE 03





FACULTY HOUSING
TYPE 06

YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
FACULTY HOUSING

SCALE
1 : 130

DRAWING NO.
18

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
10/11/2026

JOB NO.

DEALT BY:
YASHRAJ

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YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:

HOSTEL
GROUND FLOOR PLAN

SCALE
1 : 100

DRAWING NO.
19

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
2/12/2025

JOB NO.

DEALT BY:
YASHRAJ

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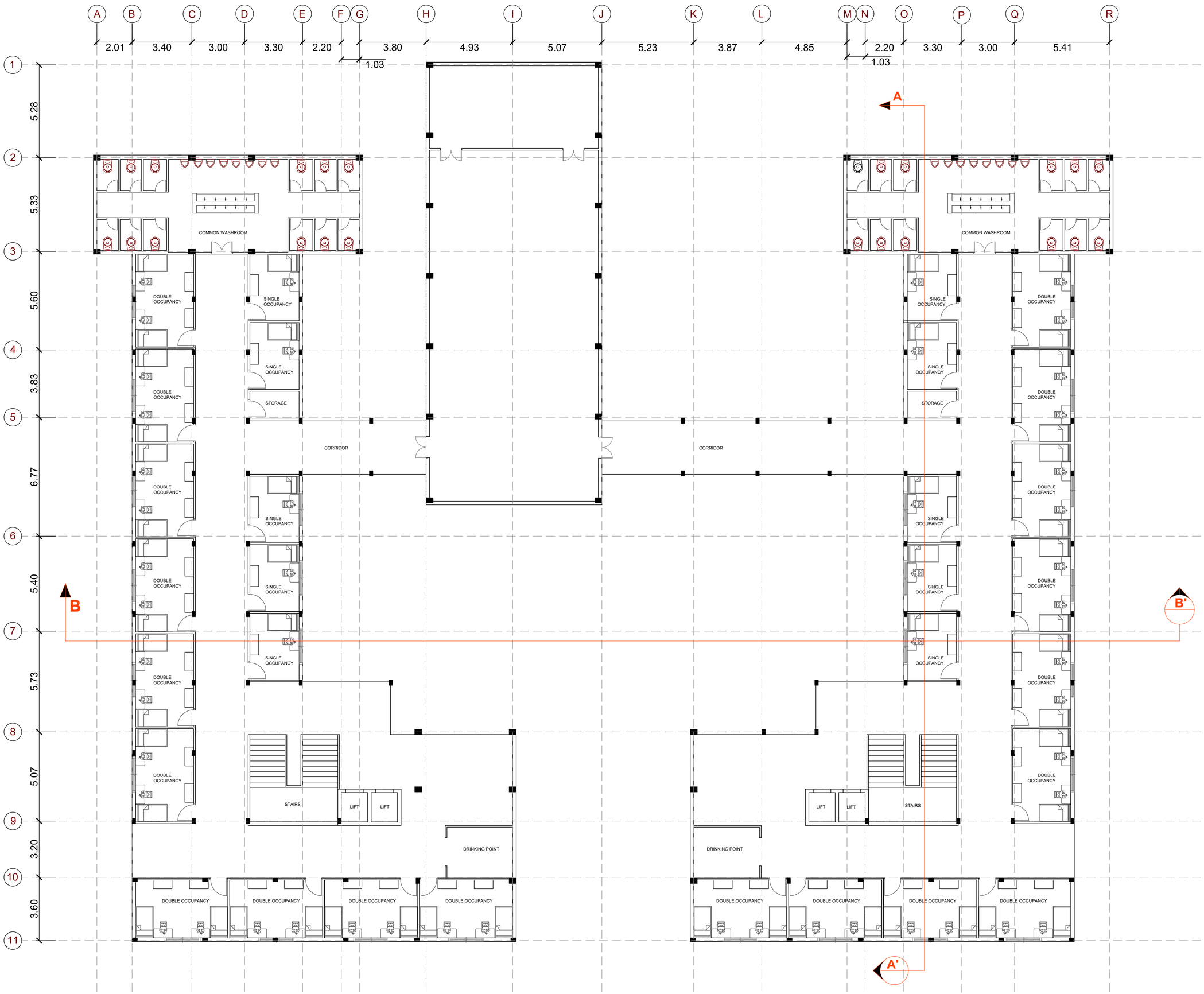

YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:

HOSTEL
FIRST FLOOR PLAN

SCALE
1 : 100

DRAWING NO.
20

NORTH

DISCIPLINE: DRAWINGS

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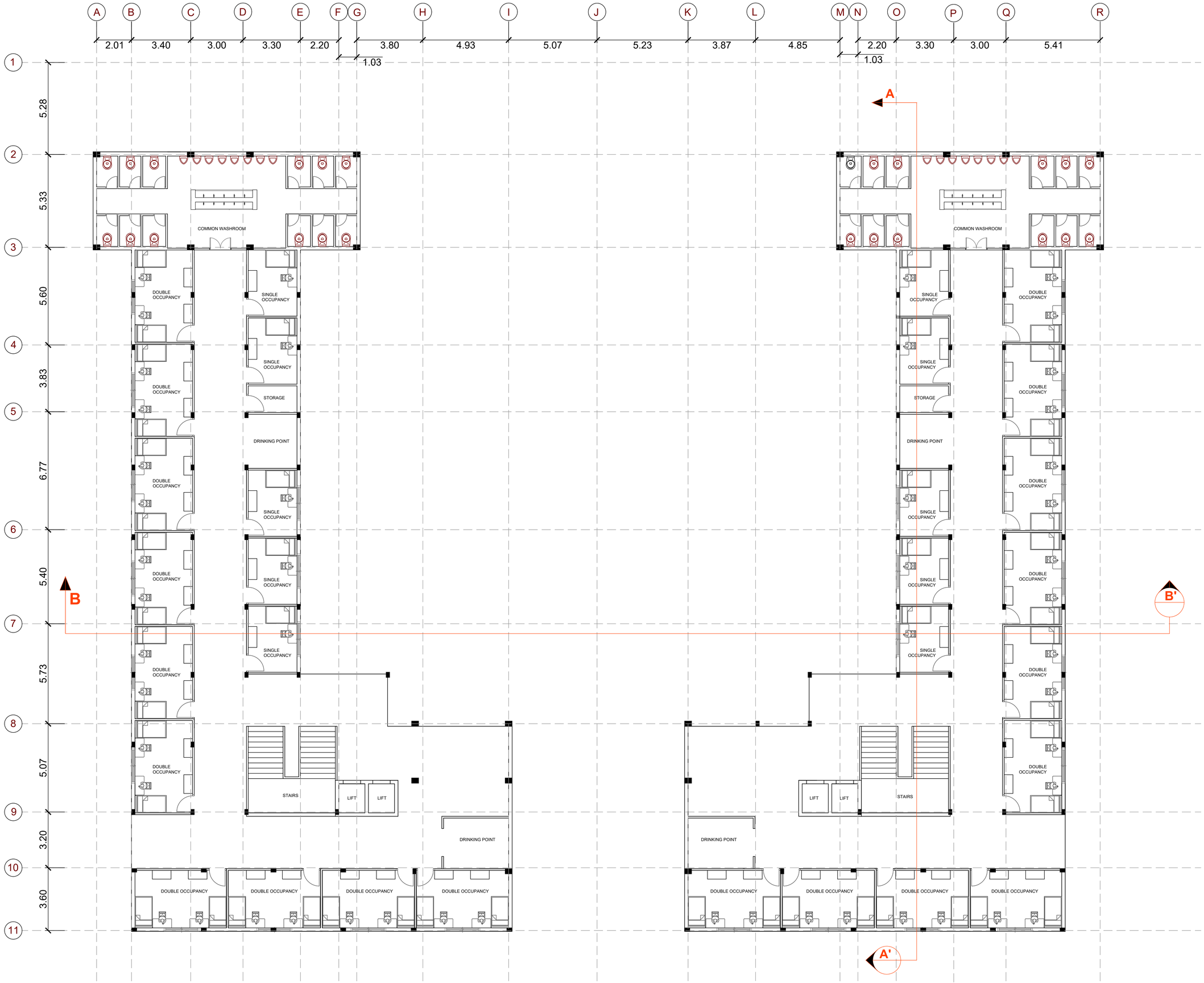

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BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:
HOSTEL
SECOND AND ABOVE ALL FLOOR PLAN ARE SAME

SCALE
1 : 100

DRAWING NO.
21

NORTH

DISCIPLINE: DRAWINGS

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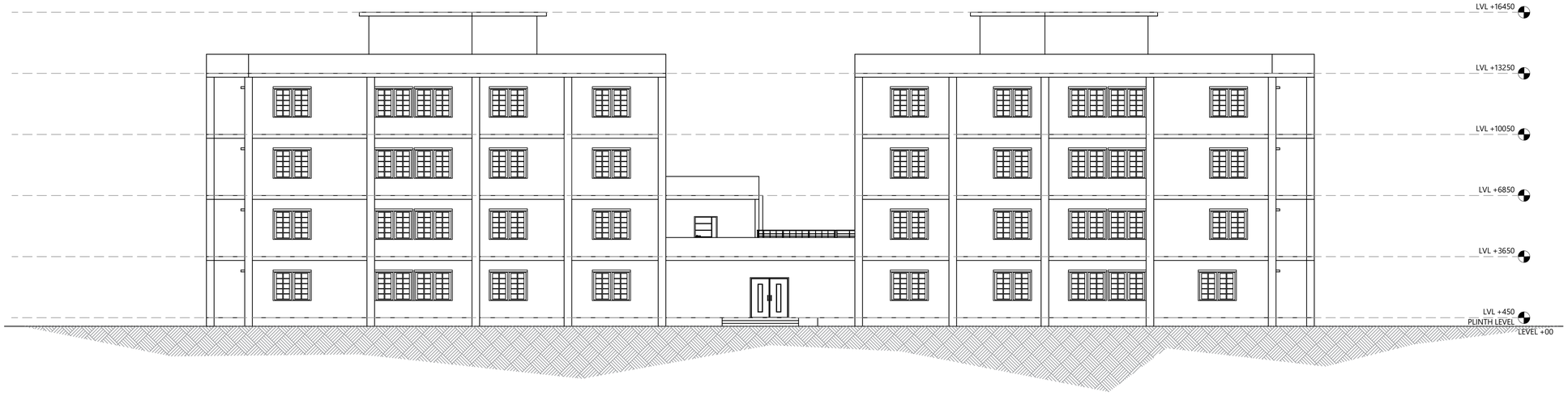
GIRLS HOSTEL FRONT ELEVATION



BOYS HOSTEL FRONT ELEVATION



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BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
HOSTELS

SCALE
1 : 130

DRAWING NO.
22



DISCIPLINE: DRAWINGS

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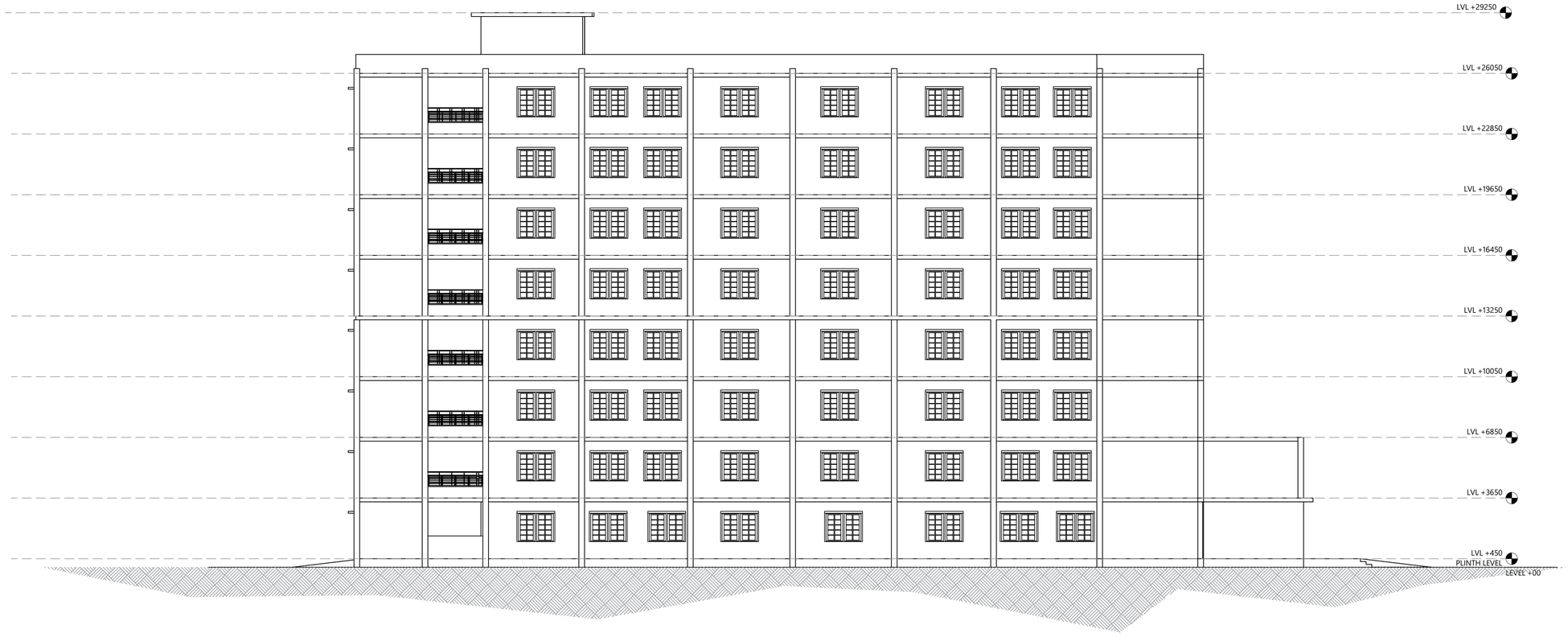
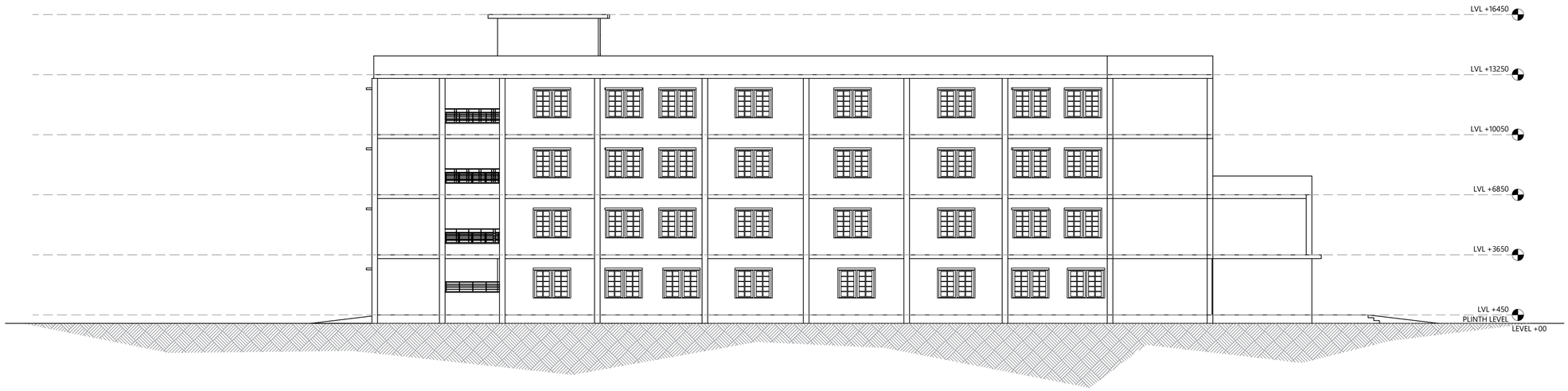
GIRLS HOSTEL SIDE ELEVATION



BOYS HOSTEL SIDE ELEVATION



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BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
HOSTELS

SCALE
1 : 130

DRAWING NO.
23



DISCIPLINE: DRAWINGS

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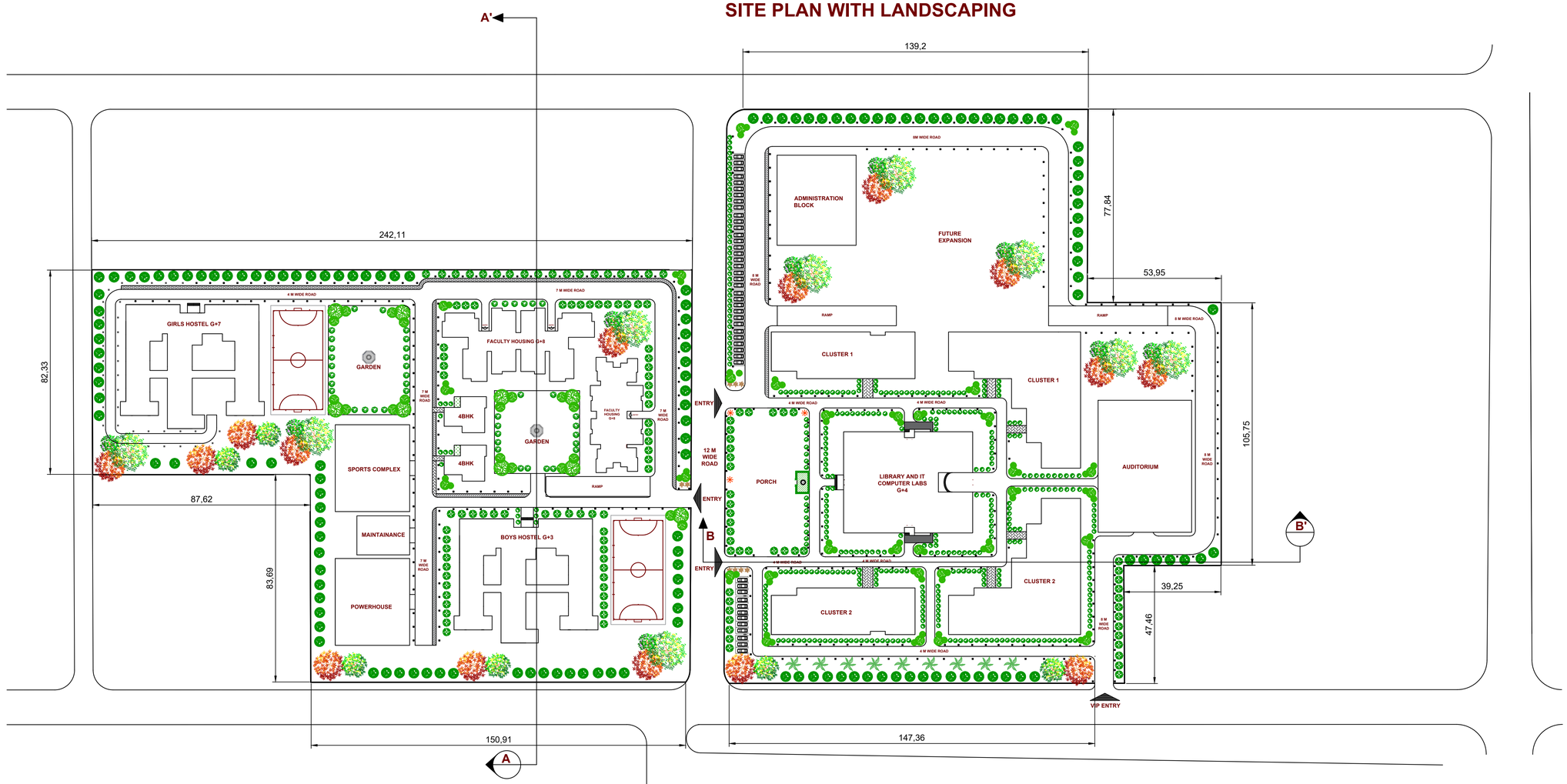
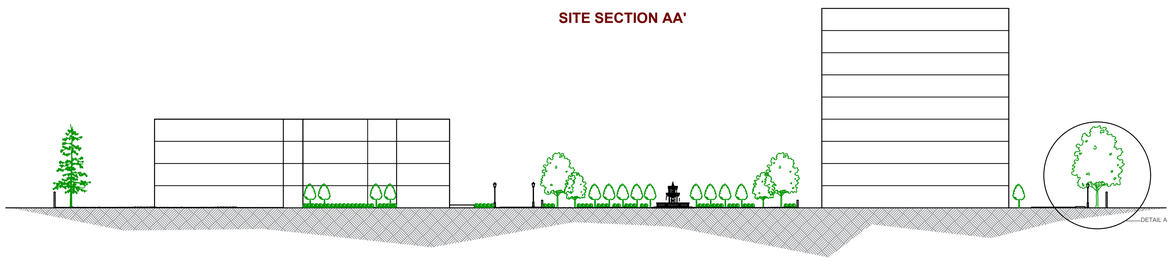
SITE PLAN WITH LANDSCAPING



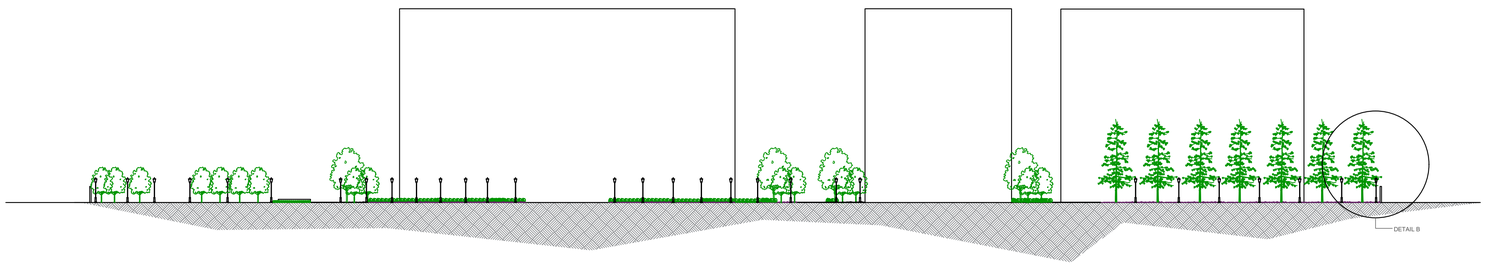
LEGEND

	Flame of Forest
	Indian Lamburnum
	Ashoka
	Palm tree
	Bushes
	Trees
	Indian Beech
	Pavement
	Grass
	Pathway
	Street light
	Lights

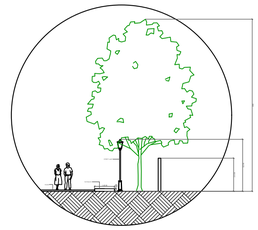
SITE SECTION AA'



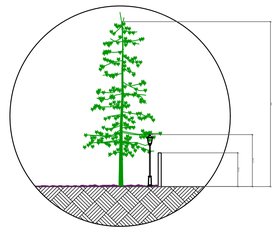
SITE SECTION BB'



DETAIL A



DETAIL B



YASHRAJ MANOJ BORWAL
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SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:

LANDSCAPE OF SITE PLAN

SCALE
1 : 950

DRAWING NO.
24

NORTH

DISCIPLINE: DRAWING

CHKD BY

DATE
2/12/2025

JOB NO.

DEALT BY:
YASHRAJ

SEAL & SIGNED BY:Thesis Guide
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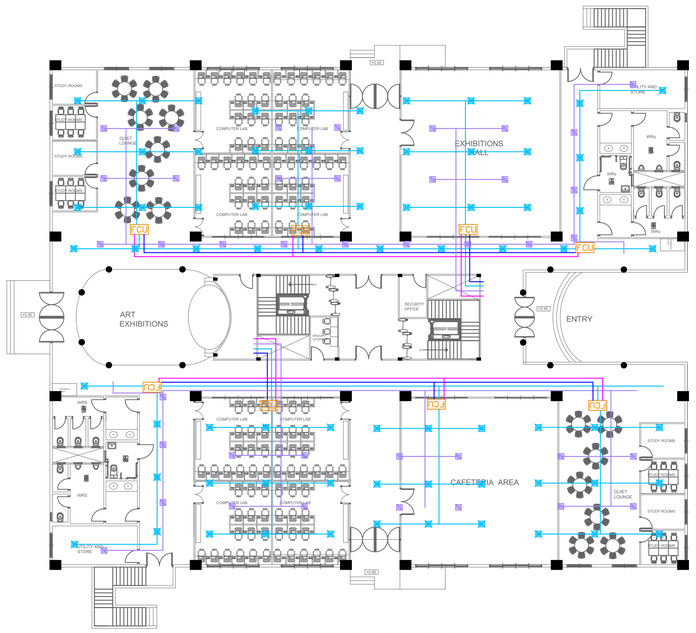
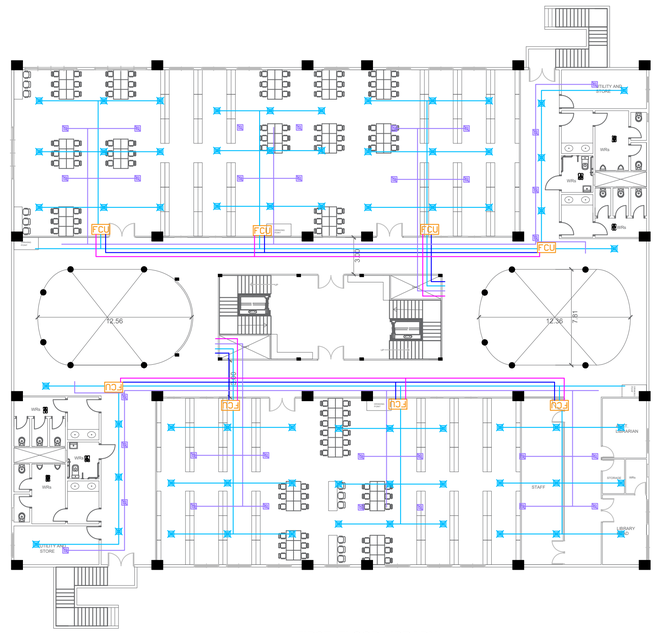
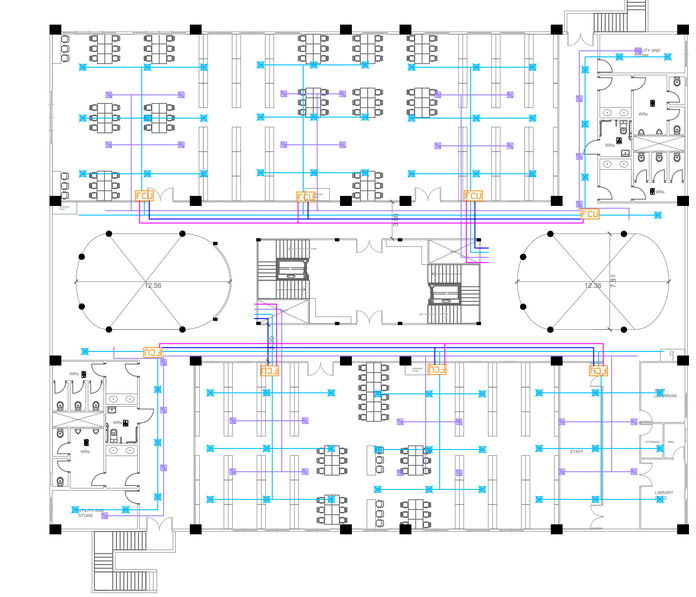


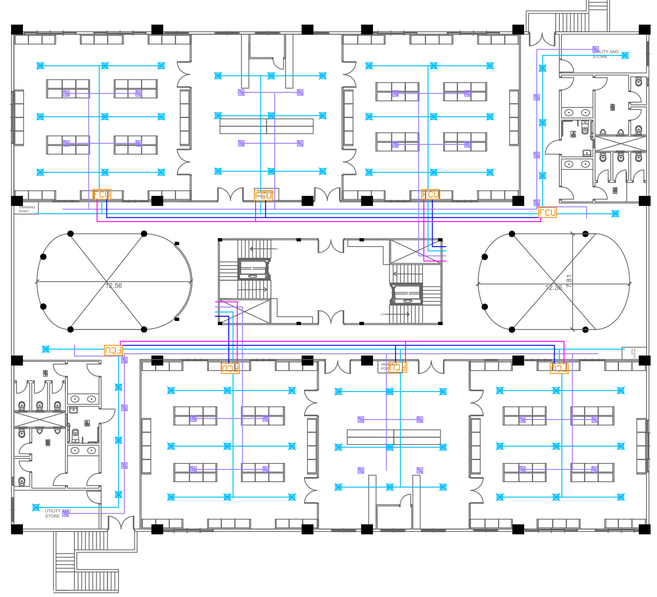
GROUND FLOOR LIBRARY



FIRST FLOOR LIBRARY



SECOND FLOOR LIBRARY



THIRD FLOOR LIBRARY

YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:
HVAC - LIBRARY

SCALE
1 : 250

DRAWING NO.
25

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
2/12/2025

JOB NO.

DEALT BY:
YASHRAJ

SEAL & SIGNED BY:Thesis Guide
Dr. Vinay Mohan Das Sir

NOTES

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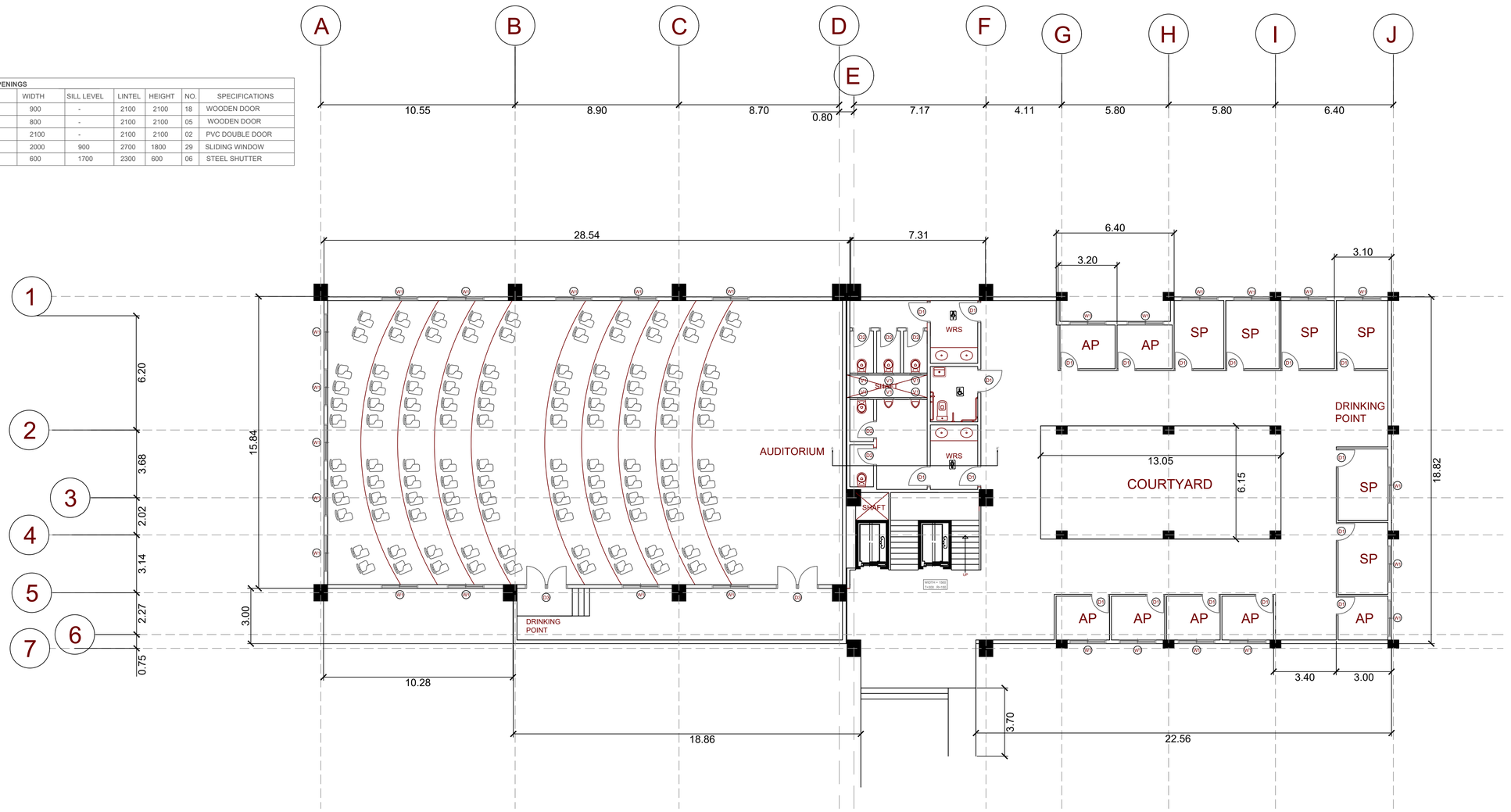
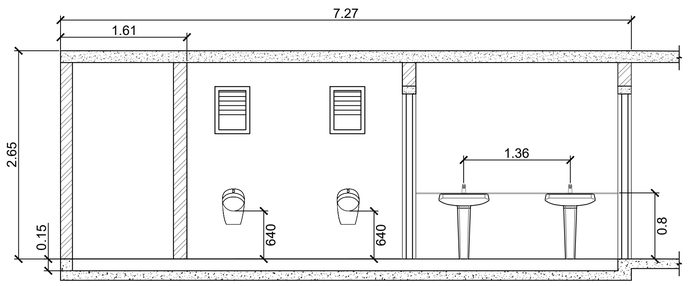
2.DO NOT SCALE THE DRAWING.

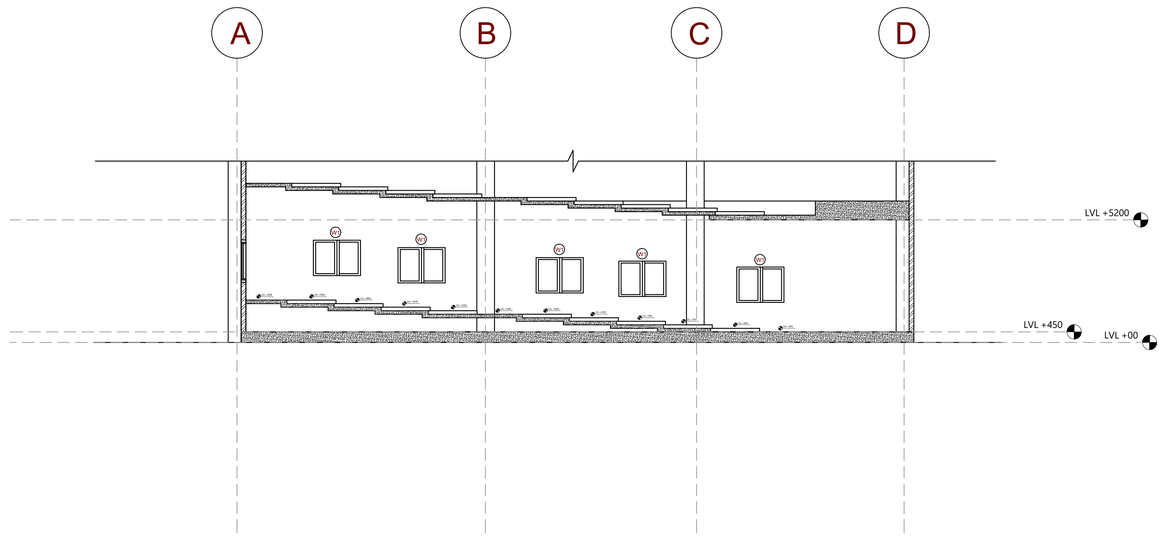
3.ONLY WRITTEN DIMENSIONS AND LEVELS MARKED SHALL BE FOLLOWED

SCHEDULE OF OPENINGS							
Sr .No:	NAME	WIDTH	SILL LEVEL	LINTEL	HEIGHT	NO.	SPECIFICATIONS
1	D1	900	-	2100	2100	18	WOODEN DOOR
2	D2	800	-	2100	2100	05	WOODEN DOOR
3	D3	2100	-	2100	2100	02	PVC DOUBLE DOOR
4	W1	2000	900	2700	1800	29	SLIDING WINDOW
5	V1	600	1700	2300	600	06	STEEL SHUTTER



TOILET DETAIL - SECTION AA' **SCALE 1:300**





YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE :
WORKING DRAWING

SCALE
1 : 130

DRAWING NO.
26

NORTH

DISCIPLINE: DRAWINGS

CHKD BY

DATE
2/12/2025

JOB NO.

DEALT BY:
YASHRAJ

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YASHRAJ MANOJ BORWAL
SCH. NO. 211110038
SEMESTER : 9TH
COURSE: BACHELORS OF ARCHITECTURE
BATCH : 2021-2026

GUIDED BY : DR. VINAY MOHAN DAS SIR .

PROJECT: DR. BABASAHEB AMBEDKAR INSTITUTE CAMPUS DESIGN , ROHINI , DELHI

TITLE:
RENDER VIEWS

DRAWING NO. 26

NORTH

DISCIPLINE : DRAWINGS

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DATE 2/12/2025

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