

Sub-head (e)

**Detailed Engineering drawings for all
Electrical, Mechanical, ICT & External
Services**

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1		11	2X1.5+1X1.5	140		
2	R2		7	2X1.5+1X1.5	140		
3	R3		7	2X1.5+1X1.5	140		
4	R4		10	2X1.5+1X1.5	150		
5	R5		11	2X1.5+1X1.5	140		
6	R6		10	2X1.5+1X1.5	150		
7	R7		7	2X1.5+1X1.5	70		
8	R8		6	2X1.5+1X1.5	60		
9	R9		8	2X1.5+1X1.5	80		
10	R10	SPARE					
11	R11	SPARE					
12	R12	SPARE					
13	Y1		11	2X1.5+1X1.5	150		
14	Y2		9	2X1.5+1X1.5	90		
15	Y3		13	2X1.5+1X1.5	200		
16	Y4		10	2X1.5+1X1.5	120		
17	Y5		11	2X1.5+1X1.5	180		
18	Y6		13	2X1.5+1X1.5	210		
19	Y7		8	2X1.5+1X1.5	80		
20	Y8		12	2X1.5+1X1.5	160		
21	Y9		10	2X1.5+1X1.5	130		
22	Y10	SPARE					
23	Y11	SPARE					
24	Y12	SPARE					
25	B1		12	2X1.5+1X1.5		180	
26	B2		8	2X1.5+1X1.5		80	
27	B3		12	2X1.5+1X1.5		150	
28	B4		15	2X1.5+1X1.5		190	
29	B5		8	2X1.5+1X1.5		100	
30	B6		7	2X1.5+1X1.5		90	
31	B7		8	2X1.5+1X1.5		100	
32	B8		7	2X1.5+1X1.5		70	
33	B9		7	2X1.5+1X1.5		70	
34	B10	SPARE					
35	B11	SPARE					
36	B12	SPARE					
TOTAL					1070	1320	990

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1		8	2X1.5+1X1.5	160		
2	R2		7	2X1.5+1X1.5	140		
3	R3		9	2X1.5+1X1.5	90		
4	R4		9	2X1.5+1X1.5	90		
5	R5						
6	R6	SPARE					
7	Y1		12	2X1.5+1X1.5	240		
8	Y2		12	2X1.5+1X1.5	240		
9	Y3	SPARE					
10	Y4	SPARE					
11	Y5	SPARE					
12	Y6	SPARE					
13	B1		9	2X1.5+1X1.5		90	
14	B2		10	2X1.5+1X1.5		100	
15	B3		7	2X1.5+1X1.5		70	
16	B4		7	2X1.5+1X1.5		70	
17	B5	SPARE					
18	B6	SPARE					
TOTAL					480	480	330

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1		11	2X1.5+1X1.5	160		
2	R2		8	2X1.5+1X1.5	100		
3	R3		8	2X1.5+1X1.5	110		
4	R4		6	2X1.5+1X1.5	60		
5	R5		5	2X1.5+1X1.5	50		
6	R6		3	2X1.5+1X1.5	150		
7	R7		3	2X4+1X4	800		
8	R8		3	2X4+1X4	800		
9	R9		3	2X4+1X4	800		
10	R10						
11	R11						
12	R12						
TOTAL					3030		

NOTES

1. All dimensions are in millimeters unless otherwise specified.
2. All work shall be in accordance with the Indian Standards (IS) and other applicable codes.
3. The contractor shall be responsible for obtaining all necessary permits and approvals for the execution of the work.
4. The contractor shall ensure that the work is completed within the stipulated time frame.
5. The contractor shall maintain a record of all materials used and provide a bill of materials (BOM) to the client.
6. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
7. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
8. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
9. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
10. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
11. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
12. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
13. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
14. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
15. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
16. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
17. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
18. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
19. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.
20. The contractor shall ensure that the work is completed in accordance with the approved drawings and specifications.

HATCH LEGEND

[Pattern]	EXPOSED CONCRETE
[Pattern]	NON EXPOSED CONCRETE
[Pattern]	CONCRETE BLOCK WORK
[Pattern]	AAC BLOCK WORK
[Pattern]	TERRACOTTA BRICK WALL
[Pattern]	100 MM SLUNK
[Pattern]	600 MM SLUNK
[Pattern]	750 MM SLUNK
[Pattern]	900 MM SLUNK
[Pattern]	350 MM SLUNK
[Pattern]	1500 MM FILLING

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1	MASTER BEDROOM	3	2X4.0+1X4.0	1200		
2	R2	MASTER BEDROOM	6	2X4.0+1X4.0	1200		
3	R3	M.DRESS,BATHROOM,PL-01	3	2X4.0+1X4.0	800		
4	R4	PATH,BATHROOM 01,PL-02	2	2X4.0+1X4.0	1000		
5	R5	DRESS & BEDROOM 01	6	2X4.0+1X4.0	1200		
6	R6	BEDROOM 01	4	2X4.0+1X4.0	1000		
7	R7	PL-03 & LIFT	2	2X4.0+1X4.0	1000		
8	R8	LIVING ROOM	6	2X4.0+1X4.0	800		
9	R9	LIVING ROOM	2	2X4.0+1X4.0	700		
10	R10	SPARE					
11	R11	SPARE					
12	R12	SPARE					
13	Y1	STAIR POWDER & PATH	5	2X4.0+1X4.0	800		
14	Y2	DINNING ROOM	5	2X4.0+1X4.0	1200		
15	Y3	STORE & DINING ROOM	3	2X4.0+1X4.0	800		
16	Y4	DINING ROOM & COURT	4	2X4.0+1X4.0	400		
17	Y5	UTILITY	3	2X4.0+1X4.0	1200		
18	Y6	KITCHEN	3	2X4.0+1X4.0	1100		
19	Y7	KITCHEN	2	2X4.0+1X4.0	1000		
20	Y8	KITCHEN	2	2X4.0+1X4.0	1000		
21	Y9	KITCHEN	2	2X4.0+1X4.0	1000		
22	Y10	KITCHEN	2	2X4.0+1X4.0	1000		
23	Y11	SPARE					
24	Y12	SPARE					
25	B1	LIVING,FOYER,PRAY ROOM	4	2X4.0+1X4.0		1000	
26	B2	PL-05 POWDER,SH. POOL	4	2X4.0+1X4.0		800	
27	B3	OFFICE	5	2X4.0+1X4.0		900	
28	B4	OFFICE FOYER & OFFICE	5	2X4.0+1X4.0		900	
29	B5	ELE. ROOM & PL-06	3	2X4.0+1X4.0		1100	
30	B6	PANTRY	3	2X4.0+1X4.0		1100	
31	B7	PANTRY & STAFF ROOM	3	2X4.0+1X4.0		800	
32	B8	STAFF ROOM	3	2X4.0+1X4.0		600	
33	B9	STAFF ROOM	4	2X4.0+1X4.0		700	
34	B10	SPARE					
35	B11	SPARE					
36	B12	SPARE					
TOTAL					8900	8500	7900

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1	OFFICE	2	2X4.0+1X4.0	700		
2	R2	OFFICE	2	2X4.0+1X4.0	700		
3	R3	STAFF ROOM	2	2X4.0+1X4.0	400		
4	R4	STAFF ROOM	1	2X4.0+1X4.0	1000		
5	R5	ELE./IT ROOM	1	2X4.0+1X4.0	1000		
6	R6	OFFICE FOYER & DINING	2	2X4.0+1X4.0	400		
7	R7	SPARE					
8	R8	SPARE					
TOTAL					4200		

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1	OFFICE	2	2X4.0+1X4.0	700		
2	R2	OFFICE	2	2X4.0+1X4.0	700		
3	R3	STAFF ROOM	2	2X4.0+1X4.0	400		
4	R4	STAFF ROOM	1	2X4.0+1X4.0	1000		
5	R5	ELE./IT ROOM	1	2X4.0+1X4.0	1000		
6	R6	OFFICE FOYER & DINING	2	2X4.0+1X4.0	400		
7	R7	SPARE					
8	R8	SPARE					
TOTAL					4200		

GROUND FLOOR UPS DISTRIBUTION BOARD 1

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1	OFFICE	2	2X4.0+1X4.0	700		
2	R2	OFFICE	2	2X4.0+1X4.0	700		
3	R3	STAFF ROOM	2	2X4.0+1X4.0	400		
4	R4	STAFF ROOM	1	2X4.0+1X4.0	1000		
5	R5	ELE./IT ROOM	1	2X4.0+1X4.0	1000		
6	R6	OFFICE FOYER & DINING	2	2X4.0+1X4.0	400		
7	R7	SPARE					
8	R8	SPARE					
TOTAL					4200		

GROUND FLOOR POWER DISTRIBUTION BOARD 1

SR.NO.	CKT. NO.	DESCRIPTION	NO. OF POINT	CKT. WIRE SIZE	LOAD R	LOAD Y	LOAD B
1	R1	MASTER BEDROOM	3	2X4.0+1X4.0	1200		
2	R2	MASTER BEDROOM	6	2X4.0+1X4.0	1200		
3	R3	M.DRESS,BATHROOM,PL-01	3	2X4.0+1X4.0	800		
4	R4	PATH,BATHROOM 01,PL-02	2	2X4.0+1X4.0	1000		
5	R5	DRESS & BEDROOM 01	6	2X4.0+1X4.0	1200		
6	R6	BEDROOM 01	4	2X4.0+1X4.0	1000		
7	R7	PL-03 & LIFT	2	2X4.0+1X4.0	1000		
8	R8	LIVING ROOM	6	2X4.0+1X4.0	800		
9	R9	LIVING ROOM	2	2X4.0+1X4.0	700		
10	R10	SPARE					
11	R11	SPARE					
12	R12	SPARE					
13	Y1	STAIR POWDER & PATH	5	2X4.0+1X4.0	800		
14	Y2	DINNING ROOM	5	2X4.0+1X4.0	1200		
15	Y3	STORE & DINING ROOM	3	2X4.0+1X4.0	800		
16	Y4	DINING ROOM & COURT	4	2X4.0+1X4.0	400		
17	Y5	UTILITY	3	2X4.0+1X4.0	1200		
18	Y6	KITCHEN	3	2X4.0+1X4.0	1100		
19	Y7	KITCHEN	2	2X4.0+1X4.0	1000		
20	Y8	KITCHEN	2	2X4.0+1X4.0	1000		
21	Y9	KITCHEN	2	2X4.0+1X4.0	1000		
22	Y10	KITCHEN	2	2X4.0+1X4.0	1000		
23	Y11	SPARE					
24	Y12	SPARE					
25	B1	LIVING,FOYER,PRAY ROOM	4	2X4.0+1X4.0		1000	
26	B2	PL-05 POWDER,SH. POOL	4	2X4.0+1X4.0		800	
27	B3	OFFICE	5	2X4.0+1X4.0		900	
28	B4	OFFICE FOYER & OFFICE	5	2X4.0+1X4.0		900	
29	B5	ELE. ROOM & PL-06	3	2X4.0+1X4.0		1100	
30	B6	PANTRY	3	2X4.0+1X4.0		1100	
31	B7	PANTRY & STAFF ROOM	3	2X4.0+1X4.0		800	
32	B8	STAFF ROOM	3	2X4.0+1X4.0		600	
33	B9	STAFF ROOM	4	2X4.0+1X4.0		700	
34	B10	SPARE					
35	B11	SPARE					
36	B12	SPARE					
TOTAL					8900	8500	7900

CLIENTS:
 M/s. [Client Name]
 Plot No. [Plot No.], [Address]
 [City], [State], [Pin Code]

DESIGNER:
 M/s. [Design Firm]
 Plot No. [Plot No.], [Address]
 [City], [State], [Pin Code]

DATE: 25 MAY 2025

SCALE: 1/25

PROJECT: [Project Name]

REVISIONS:

NO.	DESCRIPTION	DATE

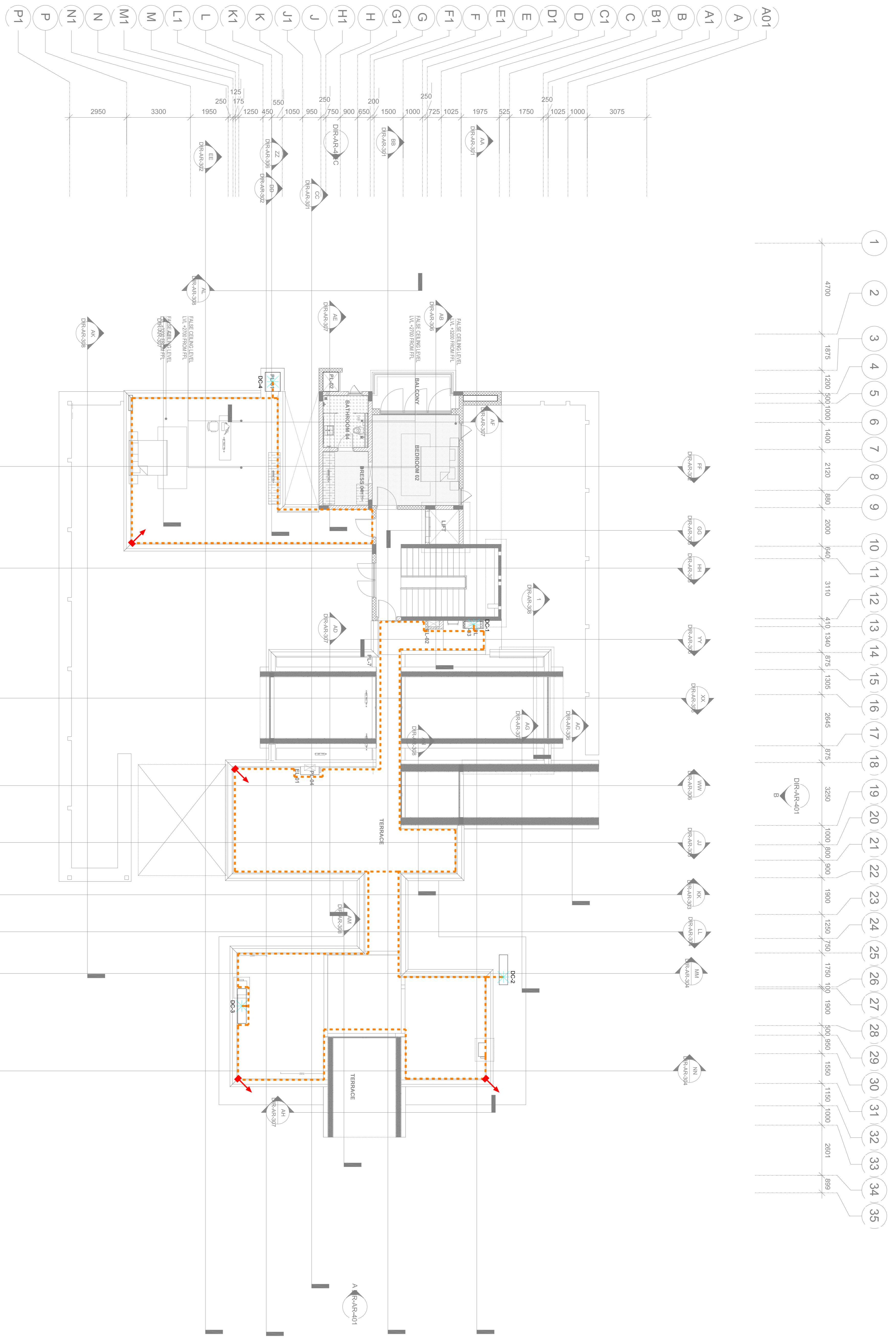
APPROVED:

PROJECT INFORMATION:

Document Release Type	FOR CONSTRUCTION
Job No.	202505
Scale	1/25
Date	25 MAY 2025
Drawn By	ASHWINI
Checked By	S.R.
Operator	Operator

ATTACHMENTS:

01_GROUND FLOOR
1 : 100



NOTES

1. All dimensions are in millimeters unless stated otherwise.
2. All work shall be in accordance with the Indian Standards (IS) and the conditions of contract.
3. All materials shall be of the best quality and shall be approved by the Engineer-in-Charge before use.
4. All work shall be done in accordance with the approved drawings and specifications.
5. The Contractor shall be responsible for the coordination with the other services.
6. The Contractor shall be responsible for the provision of all necessary services.
7. The Contractor shall be responsible for the provision of all necessary services.
8. The Contractor shall be responsible for the provision of all necessary services.
9. The Contractor shall be responsible for the provision of all necessary services.
10. The Contractor shall be responsible for the provision of all necessary services.

HATCH LEGEND

[Pattern]	EXPOSED CONCRETE
[Pattern]	NON EXPOSED CONCRETE
[Pattern]	CONCRETE BLOCK WORK
[Pattern]	AAC BLOCK WORK
[Pattern]	TERRACOTTA BRICK WALL
[Pattern]	100 MM SLUNK
[Pattern]	600 MM SLUNK
[Pattern]	750 MM SLUNK
[Pattern]	900 MM SLUNK
[Pattern]	350 MM SLUNK
[Pattern]	1500 MM FILLING

LA LEGENDS

[Symbol]	DESCRIPTION
[Symbol]	AIR TERMINAL
[Symbol]	DOWN CONDUCTOR
[Symbol]	GROUNDING CONDUCTOR
[Symbol]	BRASS ALUMINIUM CONDUCTOR
[Symbol]	G.I STRIP 30X3MM

REVISION

NO.	DESCRIPTION	DATE

ISSUES

NO.	DESCRIPTION	DATE

STAMP

Project Name: **INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD INTEGRATED DIRECTOR RESIDENCE AND OFFICE COMPLEX**

Client: **INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD**

Project Location: **INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD**

Project No: **DR-AR-01**

Scale: **1:100**

Date: **25 MAY 2025**

Drawn By: **AS/AM**

Checked By: **AS/AM**

Revision No: **01**

CLIENTS:

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD
INTEGRATED DIRECTOR RESIDENCE AND OFFICE COMPLEX

CONCRETE ENGINEERING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD
CONCRETE ENGINEERING CONSULTANT

MEP CONSULTANTS:

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD
MEP CONSULTANTS

ARCHITECT'S SIGNATURE

Client's Signature

PROJECT INFORMATION

Project Name: **INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD INTEGRATED DIRECTOR RESIDENCE AND OFFICE COMPLEX**

Client: **INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD**

Project Location: **INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD**

Project No: **DR-AR-01**

Scale: **1:100**

Date: **25 MAY 2025**

Drawn By: **AS/AM**

Checked By: **AS/AM**

Revision No: **01**

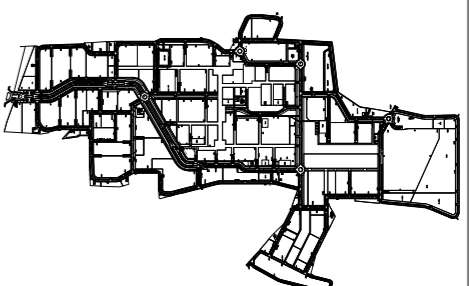
ATTACHED:

S.R.

Operator/Division

NOTES

- 1- All dimensions are in millimeters unless stated otherwise.
- 2- All work shall be in accordance with the Indian Standards (IS) and the conditions of contract.
- 3- All materials shall be of the best quality and shall be tested for quality before use.
- 4- All work shall be done in accordance with the Indian Standards (IS) and the conditions of contract.
- 5- All work shall be done in accordance with the Indian Standards (IS) and the conditions of contract.
- 6- All work shall be done in accordance with the Indian Standards (IS) and the conditions of contract.
- 7- All work shall be done in accordance with the Indian Standards (IS) and the conditions of contract.
- 8- All work shall be done in accordance with the Indian Standards (IS) and the conditions of contract.
- 9- All work shall be done in accordance with the Indian Standards (IS) and the conditions of contract.
- 10- All work shall be done in accordance with the Indian Standards (IS) and the conditions of contract.

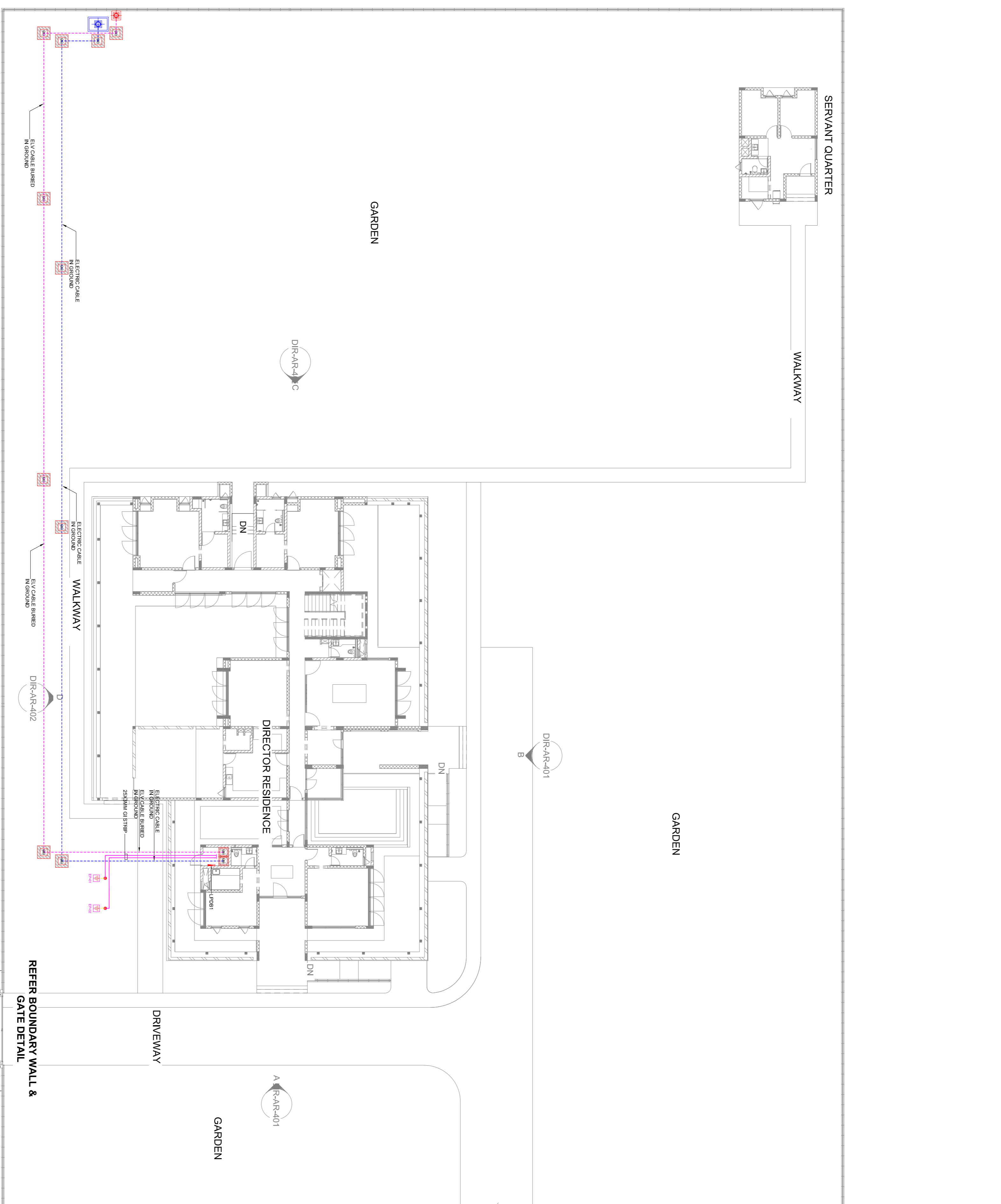


KEY PLAN

NOTE:
 - REFER MASTER PLAN AND SITE PLAN FOR THE ABSOLUTE LEVEL OF THE BUILDING AND THE STREET LEVEL.
 - REFER ALL SERVICES AND STRUCTURAL DRAWINGS FOR COORDINATION OF THE SERVICES AND THE STRUCTURAL REQUIREMENTS.
 - REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FINISHES AND THE MATERIALS TO BE USED.
 - REFER TO THE ELECTRICAL DRAWINGS FOR THE ELECTRICAL REQUIREMENTS AND THE ELECTRICAL INSTALLATIONS.

HATCH LEGEND

	EXPOSED CONCRETE
	NON EXPOSED CONCRETE
	CONCRETE BLOCK WORK
	AAC BLOCK WORK
	TERRACOTTA BRICK WALL
	100 MM SUNK
	600 MM SUNK
	750 MM SUNK
	900 MM SUNK
	350 MM SUNK
	1850 MM FILLING



REFER BOUNDARY WALL & GATE DETAIL
 HEIGHT: 700mm
 300MM CONC. TIE WALL

REFER BOUNDARY WALL & GATE DETAIL
 WICKET GATE



ABSOLUTE LEVEL :- NOTE: REFER ABSOLUTE LEVEL AS PER MASTER PLAN

Document Release Type		RENDER / GOOD FOR CONSTRUCTION	
Job No.	202585	Client's Signature	
Scale	1 : 200	Architect's Signature	
Date	26 MAY 2025	Client's Signature	
Drawn By	ASHWAN	Checked By	S.R.
Checked By	S.R.	Revision No.	00

CLIENTS:
 INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD
 INTEGRATED DIRECTOR RESIDENCE AND OFFICE COMPLEX

STRUCTURE CONSULTANT:
 MPT CONSULTANTS

CONCRETE ENGINEERING CONSULTANT:
 MPT CONSULTANTS

ELECTRICAL CONSULTANT:
 MPT CONSULTANTS