



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with "A" grade by NAAC | 12B Status by UGC | Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119

www.sathyabama.ac.in

SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

VIVA-VOCE EXAMINATION

This is to certify that the practical training SAR 4063 is the work of **MATHIVANAN.P** who had undergone training in **LARSEN & TOUBRO** and has been monitored by the continuous assessment during JUNE 2022 to NOVEMBER 2022.

Dr. Devyani Gangopadhyay
DEAN

Submitted for Viva voce Examination held on 13.12.2022

Internal Examiner
External Examiner

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DECLARATION

I, **MATHIVANAN.P**, hereby declaring that the Training Report **JUNE 2022 to OCTOBER 2022** done by me under the guidance of **Ar.NAGALINGAM.R** is submitted in partial fulfillment of the requirements for the completion of a practical training session.

DATE : 13.12.2022

PLACE : CHENNAI



SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to the Board of **Management of SATHYABAMA** for their kind encouragement in doing this practical training and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. Devyani Gangopadhyay**, Dean, School of Building and Environment and **Ar.Sarath Chandra Kanth**, Design Chair, Department of Architecture for having been a constant source of support and encouragement.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department who were helpful in many ways for the completion of the project.

I also wish to thank **AR.NAGALINGAM.R**, for the experience of interning at their firm.

PORTFOLIO



Larsen & Toubro Limited,
Construction
Buildings & Factories
P. B. No. 979, Mount Poonamallee Road,
Manapakkam,
Chennai - 600 089, INDIA
Tel : +91-44-2252 6000, 2252 8000
Fax : +91-44-2259 7288
www.Lntecc.com

B&F IC/EDRC-HR/Training/576-2022

31 May 2022

Head of the Department
Sathyabama Univeristy
Kamaraj Nagar, Semmancheri,
Chennai, Tamil Nadu 600119

Dear Sir/Madam,

Sub: Project Training

This has reference to your letter dated **30-May-2022** regarding Project Training for your student, **Mathivanan**. As a special case, we agree to admit him for Project Training from **30-May-2022 to 9-September 2022**.

Please advise «him» to carry 3 Passport size photographs, copy of «His» College ID card and Adhaar card copy while reporting for the project training.

Please note that:

- He has to undergo the training without any financial commitment to our Company and fully at «His» own risk and responsibility.
- He must strictly comply with safety & other rules applicable at the project site/Office.
- He will be awarded His Project Training completion certificate on submission of the Project Report.

Thanking You,

Yours faithfully,
For LARSEN & TOUBRO LIMITED

SUNEET KUMAR
DGM - HUMAN RESOURCES

Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA
Licence No.: CIN - L99999MH1946PLC004768

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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : LARSEN & TOUBRO CONSTRUCTION
2. Address & Contact Number : MANAPAKKAM, CHENNAI
3. Name of the student : MATHIVANAN P
4. Duration : From 01-06-2022 To 01-07-2022
5. Total No. of days :

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings		✓			
Presentation Techniques		✓			
Model making works		✓			
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule		✓			
Other computer skills		✓			
File and Office Maintenance		✓			
Coordination with other consultants		✓			
Overall Grading*	F				

(A-9.0, B-8.0, C-7.0, D-6.0, E-5.0)



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7. Any other Remarks :

8. Signature of the:
Head of the Office
/ Organization
(With Seal)

(Handwritten Signature)



L&T Construction
Buildings & Factories

MONTHLY REPORT



SATHYABAMA
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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

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1. Name of the office / organization : LARSEN & TOUBRO CONSTRUCTION
2. Address & Contact Number : MANAPAKKAM, CHENNAI
3. Name of the student : MATHIVANAN.P
4. Duration : From 01.07.2022 To 01.08.2022
5. Total No. of days :

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings		✓			
Presentation Techniques		✓			
Model making works					
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients					
Adherence to Time schedule	✓				
Other computer skills		✓			
File and Office Maintenance	✓				
Coordination with other consultants					
Overall Grading*	8				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



SATHYABAMA

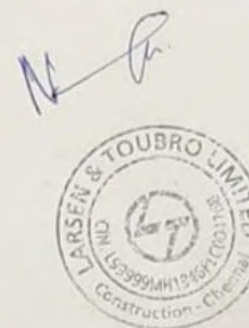
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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : L & T CONSTRUCTION.
2. Address & Contact Number : MANAPAKKAM, CHENNAI.
3. Name of the student : MATHIVANAN. P.
4. Duration : From 01.08.2022 To 01.09.2022.
5. Total No. of days : 31

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings	✓				
Presentation Techniques		✓			
Model making works		✓			
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients					
Adherence to Time schedule	✓				
Other computer skills	✓				
File and Office Maintenance	✓				
Coordination with other consultants		✓			
Overall Grading*	9				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : L & T CONSTRUCTION.
2. Address & Contact Number : MANAPAKKAM, CHENNAI.
3. Name of the student : MATHIVANAN.
4. Duration : From 01.09.2022 To 01.10.2022
5. Total No. of days : 30

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings	✓				
Presentation Techniques	✓				
Model making works		✓			
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients					
Adherence to Time schedule	✓				
Other computer skills	✓				
File and Office Maintenance	✓				
Coordination with other consultants		✓			
Overall Grading*	9				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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[Handwritten Signature]





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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : *Larsen & Toubro*
2. Address & Contact Number : *Mount poonamallee Road, Manapakkam, Chennai - 600 089*
3. Name of the student : *Mathivanan*
4. Duration : From *1.10.22* To *20.10.22*
5. Total No. of days : *17 days.*

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings		✓			
Presentation Techniques	✓				
Model making works		✓			
Understanding of construction details	✓				
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients					
Adherence to Time schedule	✓				
Other computer skills	✓				
File and Office Maintenance	✓				
Coordination with other consultants	✓				
Overall Grading*	<i>9 - A</i>				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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7. Any other Remarks : _____

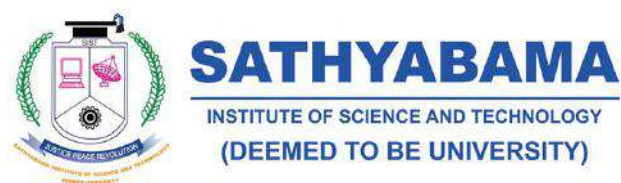
8. Signature of the:
Head of the Office
/ Organization
(With Seal)

[Signature]



Larsen & Toubro is an Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing and Services. It operates in over 50 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for over eight decades.

L&T Construction is a division of Larsen & Toubro (L&T) a major Indian technology, engineering, construction, manufacturing and financial services conglomerate, with global operations. L&T addresses critical needs in key sectors - Hydrocarbon, Infrastructure, Power, Process Industries and Defence - for customers in over 30 countries around the world. L&T is engaged in core high impact sectors of the economy and our integrated capabilities span the entire spectrum of 'design to deliver'. With over 8 decades of a strong, customer focused approach and a continuous quest for world-class quality, we have unmatched expertise across Technology, Engineering, Construction, Infrastructure Projects and Manufacturing.



ACKNOWLEDGEMENT

Firstly, I would like to express my deep gratitude to the chief Architect AR.NAGALINGAM for providing me with this opportunity to work as a trainee architect in the firm LARSEN & TOUBRO. Their continuous guidance and support has helped me draw a better line than yesterday. Ideas were exchanged and experience of the firm has provided me gain confidence to work in the professional fields. During the period of practicum the major opportunity were to work in big and small projects in a systematic manner. This has helped me develop a potential architect and student. Their regular guidance in architectural, civil and structural fields are praiseworthy. The comfortable circle and calmness in the working table has helped me work more patience and diligently. I would also like to extend my gratitude to our practicum supervisor for their guidance and supervision during the practicum period as well as for the report writing, and my teachers for making me capable to grow enough to handle the mistakes and stand with head high.

Name	Mathivanan.P
Reg no.	39210046
Year	2022
E-mail	mathivanan849@gmail.com

WEEKS	PROJECT NAME	WORK DONE
WEEK 1 (31.05.2022 -04.06.2022)	DATA CENTER-MUMBAI	DETAIL DRAWING SECURITY CABIN A,SECURITY CABIN B,PUMPROOM
WEEK 2 (06.06.2022 - 11.06.2022)	DATA CENTER-MUMBAI	SITE PLAN,SITE SETTING OUT
WEEK 3 (13.06.2022 -18.06.2022)	DATA CENTER-MUMBAI	WEST GATE ENTRY DETAILS,COMPOUND WALL DETAILS
WEEK 4 (20.06.2022 -25.06.2022)	DATA CENTER-MUMBAI	SITE PLAN-ARTICULATED VEHICLE SWEPT PATH,DETAILS OF LOADING DOCK
WEEK 5 (27.06.2022 -02.07.2022)	DATA CENTER-MUMBAI	ACOUSTIC PLAN DETAILS,ACOUSTIC SECTION
WEEK 6 (04.07.2022 -09.07.2022)	DATA CENTER-MUMBAI	REDESIGN -GROUND FLOOR LOBBY,FIRST FLOOR OFFICE AREA
WEEK 7 (11.07.2022 -16.07.2022)	DATA CENTER-MUMBAI	INTERIOR DETAILS-GROUND FLOOR LOBBY,FIRST FLOOR OFFICE AREA
WEEK 8 (18.07.2022 -23.07.2022)	DATA CENTER-CHENNAI DATA CENTER-PUNE	AREA STATEMENT
WEEK 9 (25.07.2022 -30.07.2022)	DATA CENTER-CHENNAI	BOQ-SITE AND ANCILLARY BUILDING
WEEK 10 (01.08.2022 -06.08.2022)	DATA CENTER-MUMBAI	BOQ -SITE AND ANCILLARY BUILDING-MAIN BUILDING
WEEK 11 (08.08.2022 -13.08.2022)	DATA CENTER-MUMBAI	BOQ -SITE AND ANCILLARY BUILDING,MAIN BUILDING -AREA STATEMENT
WEEK 12 (15.08.2022 -20.08.2022)	DATA CENTER-MUMBAI	REFELECTED CEILING PLAN-FIRST FLOOR PLAN
WEEK 13 (22.08.2022 -27.08.2022)	DATA CENTER-KANCHI MAIN OFFICE-CHENNAI	CANTEEN RENDERS SUBSTATION RENDERS
WEEK 14 (29.08.2022 -03.09.2022)	DATA CENTER-NAVI MUMBAI	INTERIOR RENDERS
WEEK 15 (05.09.2022 -10.09.2022)	DATA CENTER-MUMBAI SITE VISIT	DETAIL DRAWING-COMMENTS CORRECTION SECURITY CABIN A,SECURITY CABIN B,PUMPROOM,DEATAILS OF LOADING DOCK.
WEEK 16 (12.09.2022 -17.09.2022)	DATA CENTER-MUMBAI	COMMENTS CORRECTION-SITE PLAN,ARTICULATED VEHICLE SWEPT PATH,DETAILS,SITE SETTING OUT.
WEEK 17 (19.09.2022 -24.09.2022)	DATA CENTER-MUMBAI	CORRECTION IN GROUND,FIRST,MEZANINE FLOOR PLAN
WEEK 18 (26.09.2022 -01.10.2022)	DATA CENTER-MUMBAI	CORRECTION IN SECTION,RCP FIRST FLOOR PLAN
WEEK 19 (03.10.2022 -08.10.2022)	DATA CENTER-MUMBAI	COMMENTS CORRECTION-WEST GATE ENTRY DETAILS,COMPOUND WALL DETAILS
WEEK 20 (10.10.2022 -15.10.2022)	DATA CENTER-MUMBAI	COMMENTS CORRECTION-ACOUSTIC PLAN AND SECTION,UPDATES IN CENTERED MODEL
WEEK 21 (17.10.2022 -18.10.2022)	DATA CENTER-MUMBAI	STANDARD DRAWINGS



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Fax : +91-44-2259 7288
www.Lntec.com

LTC-HQ/B&F/EDRC-HR/Training/576-2022

03 December 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Mathivanan Pandian (39210046)** from **Sathyabama Institute of Science & Technology, Chennai**, has undergone his project internship at our Engineering Design & Research Centre (EDRC) – Headquarters from **30 May 2022 to 18 October 2022**.

We wish him all the best for his future endeavors.

Yours faithfully,

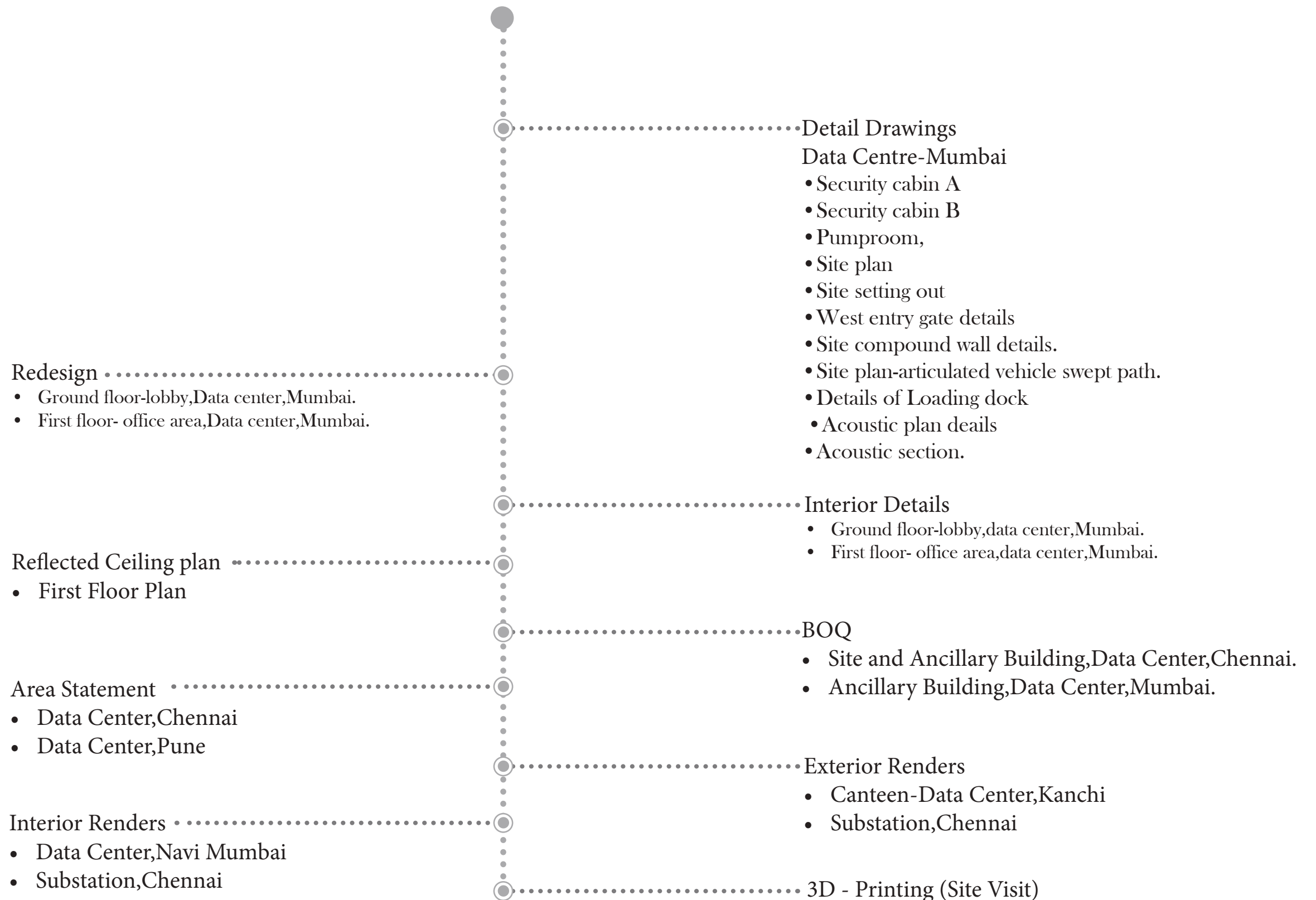
for **LARSEN & TOUBRO LIMITED**

SUNEET KUMAR
DGM - HUMAN RESOURCES

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Data Centre-Mumbai

Our approach is of making a interior as per the finishing schedule given by the team in which all interior or exterior elements are placed in the model and an output will be produced , after that optimal renders were made by new finishing schedule which will be literally lower in cost by compared with the given input.

In landscape trees counts were placed as per the standards and the same time it was cross checked and rearranged if it gets clashed with the MEP layout given by the team.

Requirements

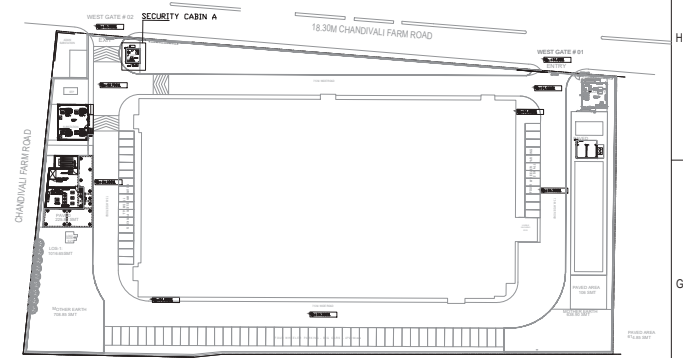
- Security cabin a
- Security cabin b
- Pumproom,
- Site plan
- Site setting out
- West entry gate details
- Site compound wall details.
- Site plan-articulated vehicle swept path.
- Details of Loading dock
- Acoustic plan deails
- Acoustic section.
- Ground floor-lobby
- First floor- office area.
- Interior details-ground floor waiting lobby
- Interior details-foh-silo.
- Reflected ceiling plan-foh
- Section
- Boq for site and ancillary buildings
- Area statement

EXTERIOR VIEW



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KEY PLAN
(NOT TO SCALE)



GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. STAIRCASE RISER = 150mm AND TREAD = 300mm MAX. 12 RISERS IN ONE FLIGHT. MINIMUM CLEAR WIDTH OF STAIRCASE BETWEEN HAND RAILING AND MID LANDING IS 1500mm. UNLESS NOTED OTHERWISE.
3. RAINWATER DOWN TAKE PIPES SHALL EXTEND UP TO FGL.
4. ALL FLOOR AND WALL CUTOUTS SHALL BE CLOSED WITH 2 HOURS FIRE RATED SEALANT AS PER MANUFACTURE SPECIFICATION.
5. ALL INTERNAL PLASTER SHALL BE 10mm THK AND EXTERNAL PLASTER SHALL BE 20mm THK.
6. REFER ALL CUTOUTS IN CONJUNCTION WITH RELATED HVAC, FIRE SYSTEM AND ELECTRICAL MODEL.
7. ANY DISCREPANCY IN MODEL/DRAWING AND DETAILS SHALL BE BRING TO THE NOTICE OF CONSULTANT BEFORE EXECUTION AT SITE.
8. GLAZING SHALL BE AS PER SPECIFICATION.
9. ALL OPENINGS DIMENSIONS ARE WITHOUT PLASTER.
10. ALL FLOOR CUTOUTS SHALL HAVE 150mm RCC UPSTAND ALONG PERIPHERY.

KEY NOTES

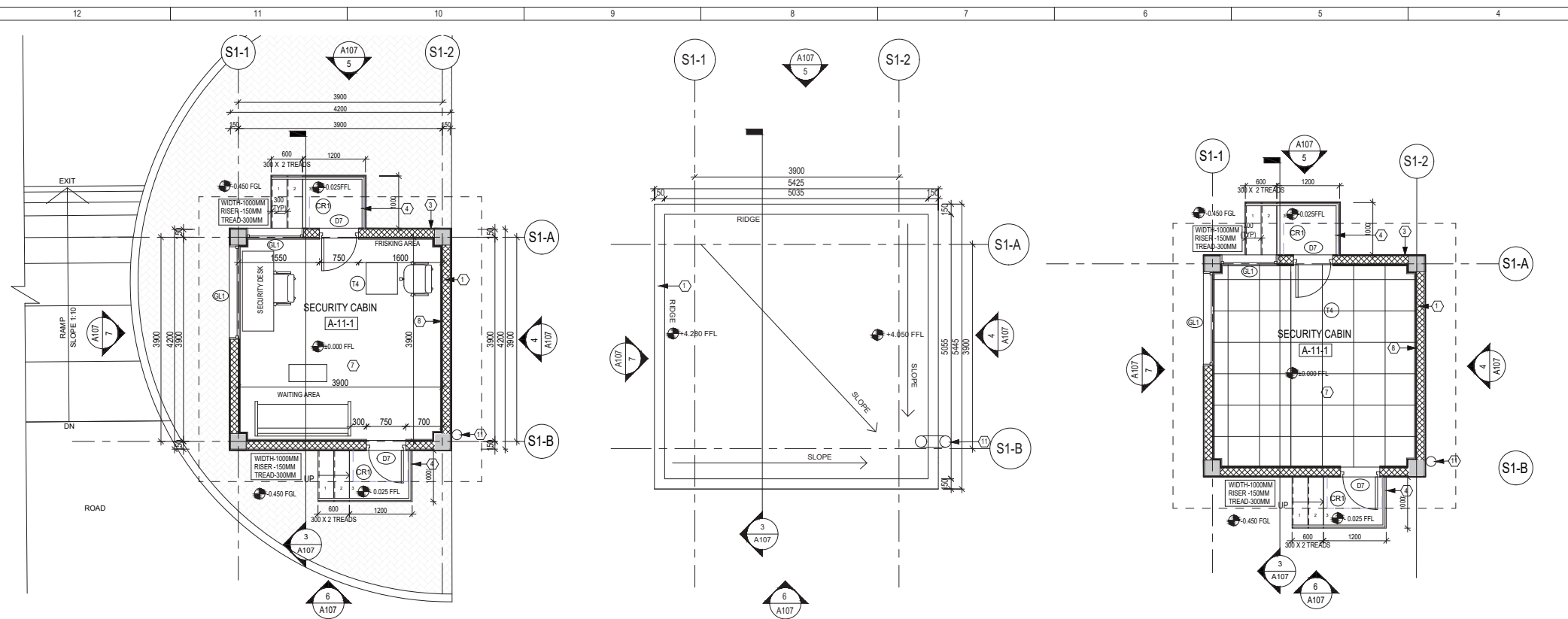
1. EXTERIOR-150 THK WALL
2. EXTERIOR PLASTER WITH EXTERIOR ACRYLIC EMULSION PAINT
3. 6 MM GROOVE TO DETAIL
4. 600MM WIDE SUN SHADE
5. ACOUSTIC CEILING TILE SIZE-600MMX600MM
6. 900 MM MS RAILING
7. PORCELAIN TILE SIZE-300MM X 600MM, THICK-10MM, SHADE-GREY, FINISH-MATTE
8. INTERIOR ACRYLIC PAINT
9. CUTOUT IN GLASS
10. WATERPROOFING REFER STRUCTURAL DRAWING
11. RAIN WATER DOWN TAKE PIPE
12. 8MM THICK CLEAR GLASS
13. 100MM HIGH PORCELAIN SKIRTING

LEGEND

- TYP - TYPICAL
FFL - FINISHED FLOOR LEVEL
THK - THICK
DN - DOWN
FGL-FINISHED FLOOR LEVEL
CR1-DENSIFYING SEALER
EL- ELEVATION
FGL-FINISHED GROUND LEVEL
T4 - PORCELAIN TILE

WAL LEGEND

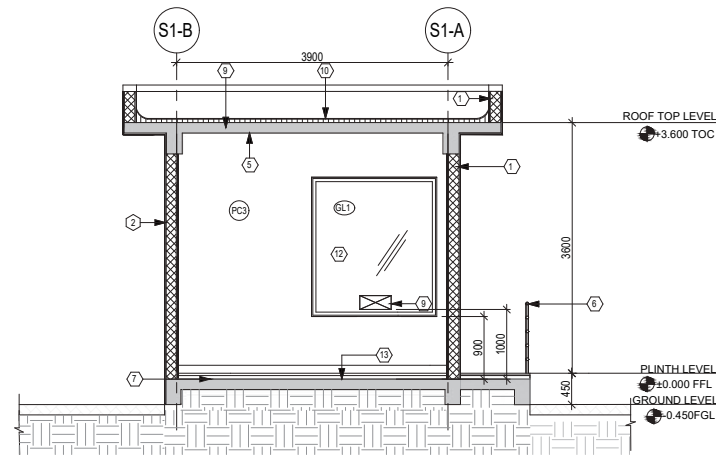
- 200MM AAC BLOCK WORK
150MM AAC BLOCKWORK



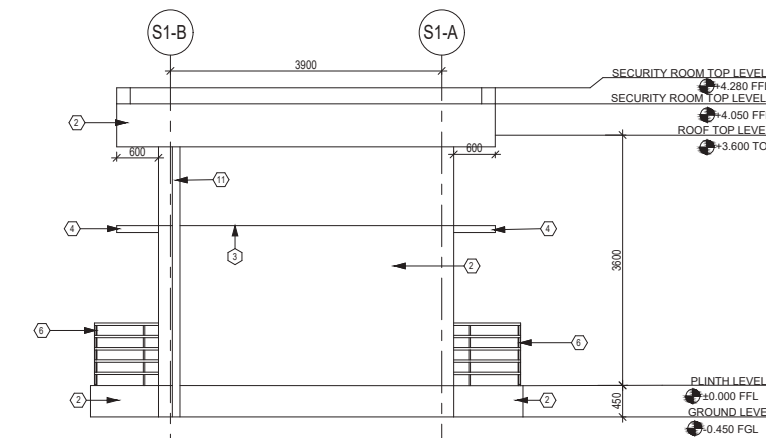
1 PLINTH LEVEL
A527 1:50

2 SECURITY ROOM TOP LEVEL
A527 1:50

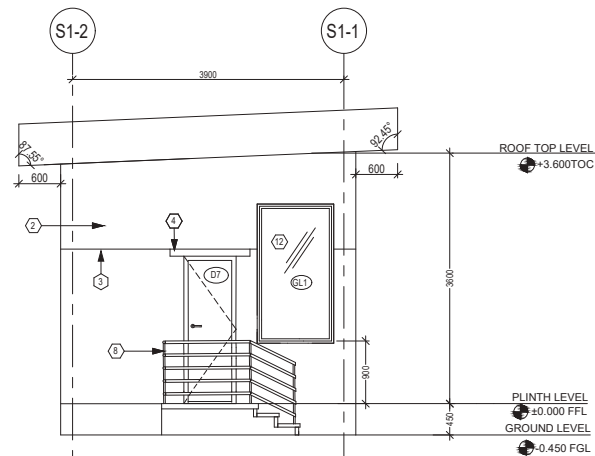
2 CEILING PLAN
A527 1:50



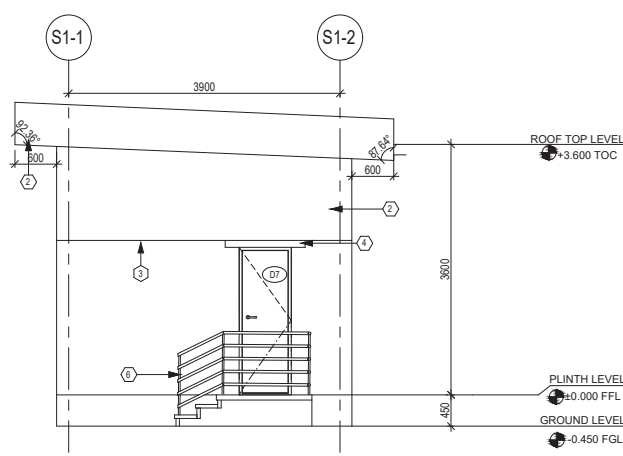
3 Section
A527 1:50



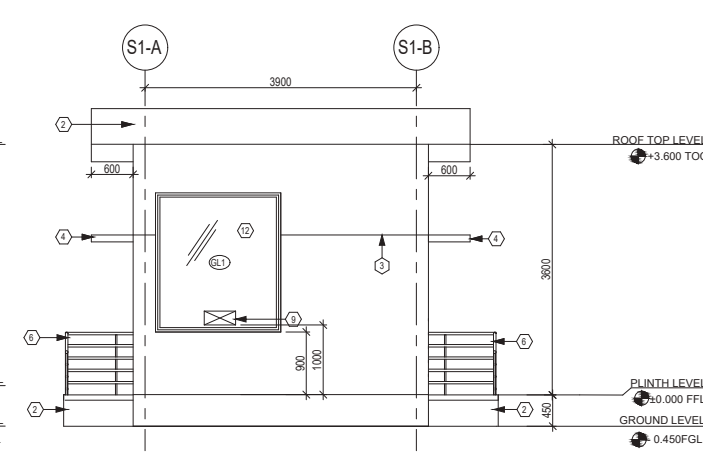
4 East Elevation
A527 1:50



5 North Elevation
A527 1:50

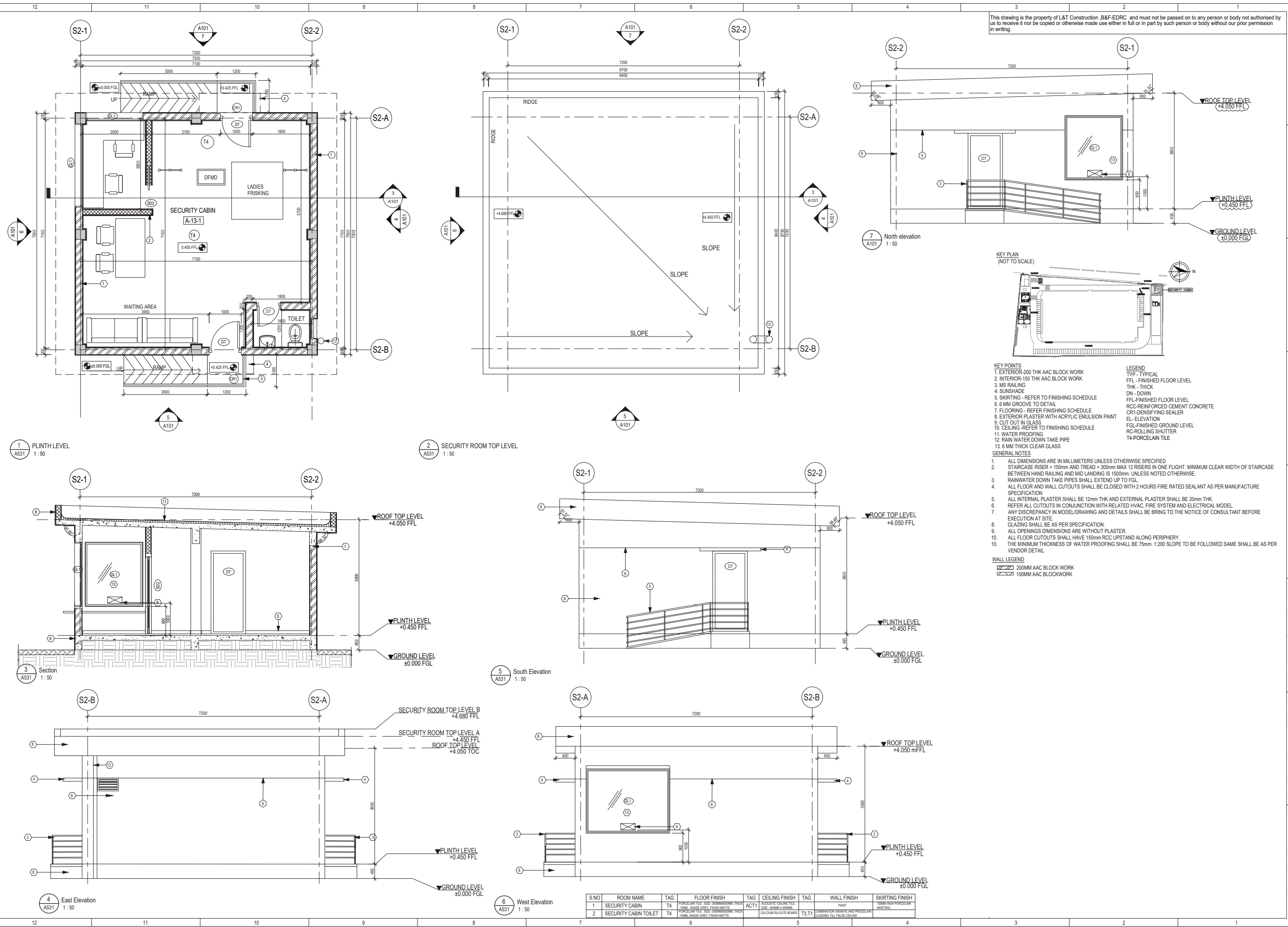


6 South Elevation
A527 1:50

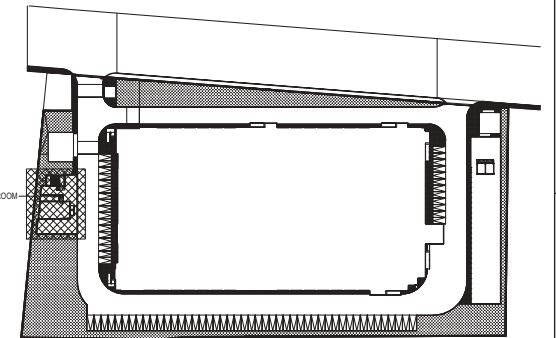


7 West Elevation
A527 1:50

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(NOT TO SCALE)

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2. STAIRCASE RISER = 150mm AND TREAD = 300mm MAX 12 RISERS IN ONE FLIGHT. MINIMUM CLEAR WIDTH OF STAIRCASE BETWEEN HAND RAILING AND MID LANDING IS 1500mm. UNLESS NOTED OTHERWISE.
3. RAINWATER DOWN TAKE PIPES SHALL EXTEND UP TO FGL.
4. ALL FLOOR AND WALL CUTOUTS SHALL BE CLOSED WITH 2 HOURS FIRE RATED SEALANT AS PER MANUFACTURE SPECIFICATION
5. ALL INTERNAL PLASTER SHALL BE 12mm THK AND EXTERNAL PLASTER SHALL BE 20mm THK.
6. REFER ALL CUTOUTS IN CONJUNCTION WITH RELATED HVAC, FIRE SYSTEM AND ELECTRICAL MODEL.
7. ANY DISCREPANCY IN MODEL/DRAWING AND DETAILS SHALL BE BRING TO THE NOTICE OF CONSULTANT BEFORE EXECUTION AT SITE.
8. GLAZING SHALL BE AS PER SPECIFICATION.
9. ALL OPENINGS DIMENSIONS ARE WITHOUT PLASTER.
10. ALL FLOOR CUTOUTS SHALL HAVE 150mm RCC UPSTAND ALONG PERIPHERY.
11. THE WATER PROOFING SHALL AS PER STRUCTURAL DETAILS.
12. * INDICATES LEVEL VARIES DUE TO SLOPE FOR DETAIL REFER PHE & STRUCTURAL DRAWINGS.
13. +0.000 LVL CORRESPONDS TO +33.40M FFL AT SITE

PLAN KEY NOTES

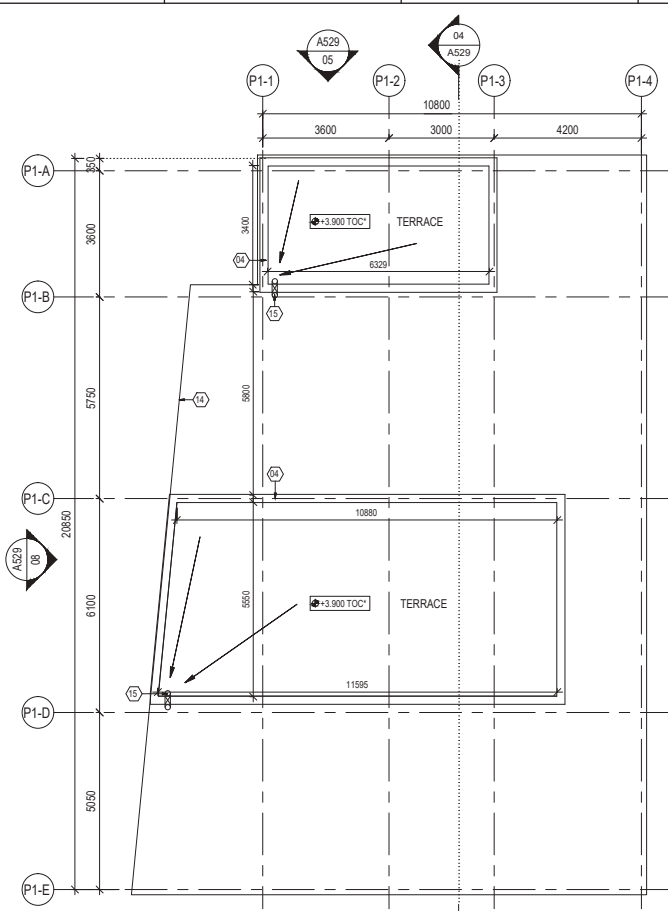
01. RC WALL FOR DETAIL REFER STRUCTURAL DRWG.
02. EXT. PLASTER+ EXT ACRYLIC PAINT - REFER FINISHES SCHEDULE.
03. INT. PLASTER+ INT ACRYLIC PAINT - REFER FINISHES SCHEDULE.
04. 200MM THK. 150MM HIGH AAC BLOCK WALL
05. SUNSHADE
06. 900MM HIGH MS RAILING.
07. POLISHED CONCRETE STEPS.
08. PRECAST BEAM FOR DETAIL REFER STRUCTURAL DRWG.
09. PAVER BLOCK.
10. WEATHERING COURSE - FOR DETAIL REFER PHE/STRUCTURAL DRWG.
11. FILLING AS PER PLINTH DETAILS - REFER STRUCTURAL DRAWING.
12. FLOOR FINISH - REFER FINISHES SCHEDULE.
13. RC LINTEL BEAM FOR DETAIL REFER STRUCTURAL DRAWING.
14. EDGE OF SLAB BELOW.
15. RAIN WATER DOWN TAKE PIPE - REFER PHE DRG FOR DETAIL.
16. 200MM WIDE DEWATERING TRENCH (SLOPE 1:200)
17. 150MM THK. 150MM HIGH AAC BLOCK WALL.
18. 6MM GROOVE
19. WATER PROOFING LAYER - REFER STRUCTURAL DRAWING
20. SLAB COVERED DETAIL - REFER STRUCTURAL DRAWING
21. KERB WALL

WALL LEGEND

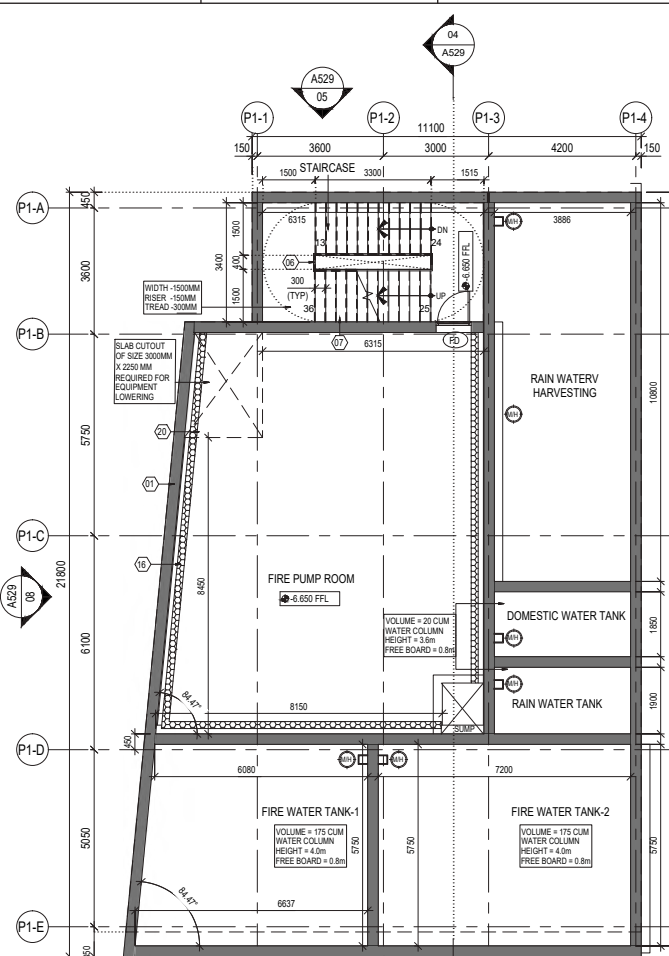
- 200MM THK AAC BLOCK WALL
- 150MM THK AAC BLOCK WALL
- RCC WALL / RC COLUMN

LEGEND

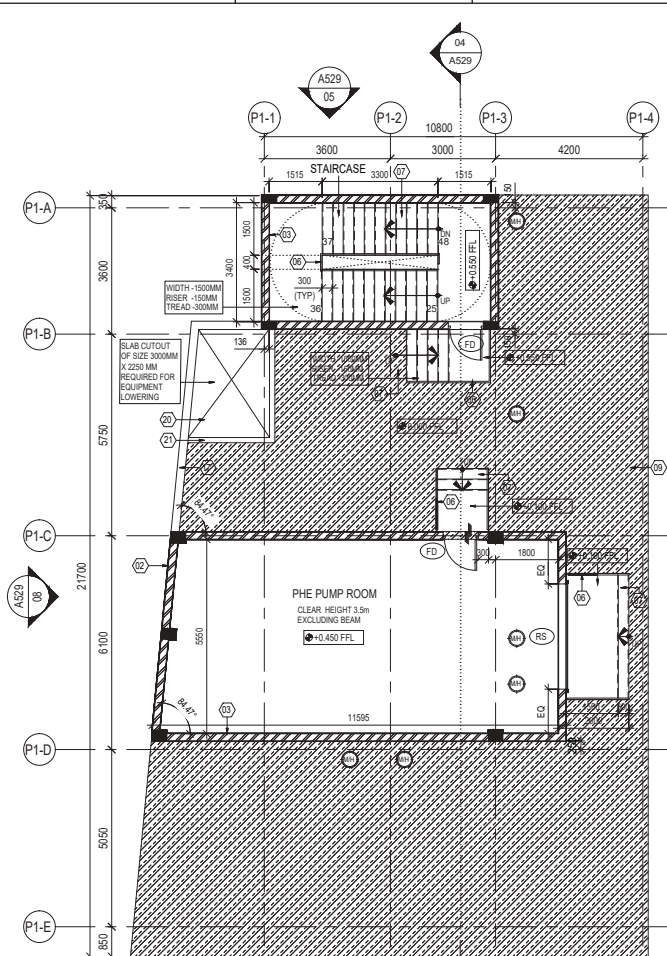
- TYP - TYPICAL
- FGL - FINISHED FLOOR LEVEL
- THK - THICK
- DN - DOWN
- FGL - FINISHED FLOOR LEVEL
- FGL - FINISHED GROUND LEVEL
- RCC - REINFORCED CONCRETE
- RS - ROLLING SHUTTER (3000mm X 3000mm)
- FD - FIRE DOOR
- PFL - FINISHED PAVEMENT LEVEL
- MH - MAN HOLE
- MAINT - MAINTENANCE LADDER
- 25MM TLE DROP



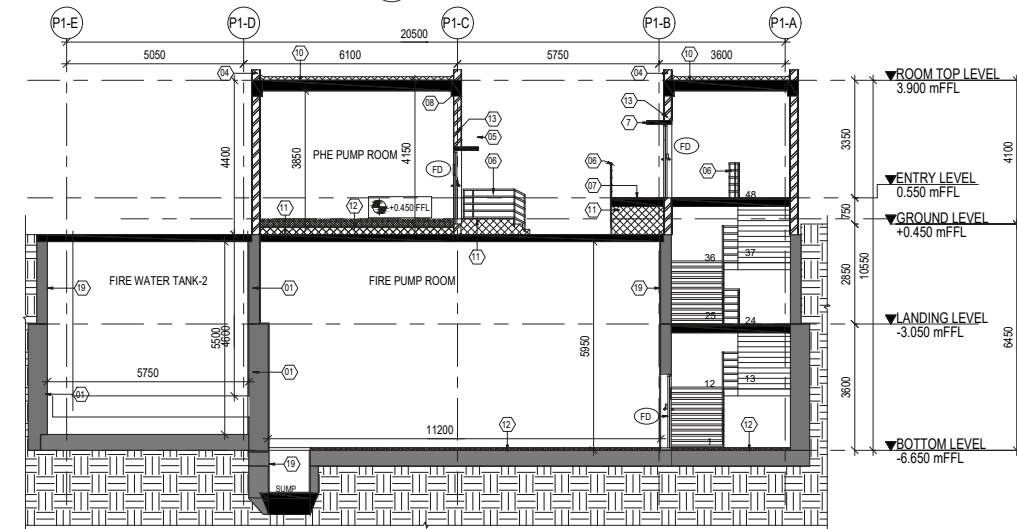
03 ROOM TOP LEVEL
1:100



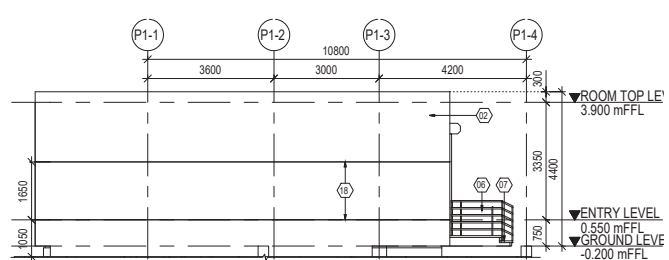
02 BOTTOM LEVEL
1:100



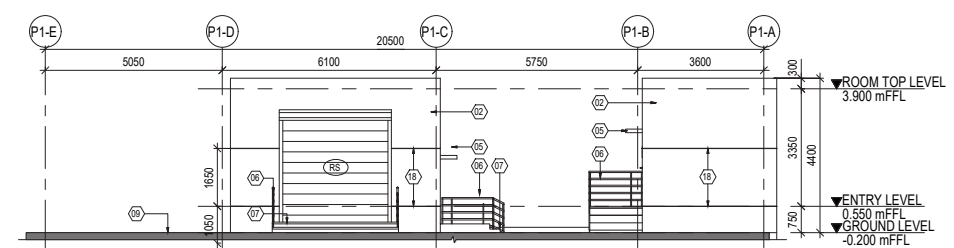
01 GROUND LEVEL
1:100



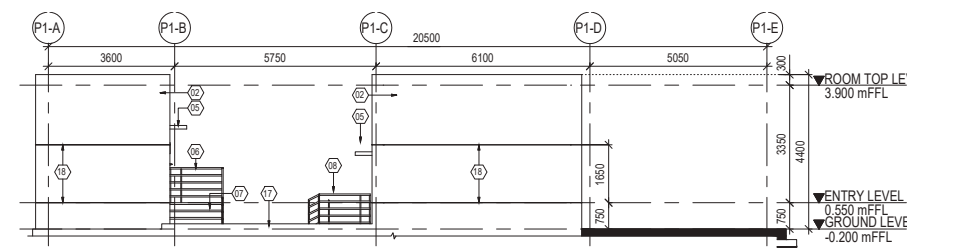
04 SECTION
1:100



06 ELEVATION - B
1:100

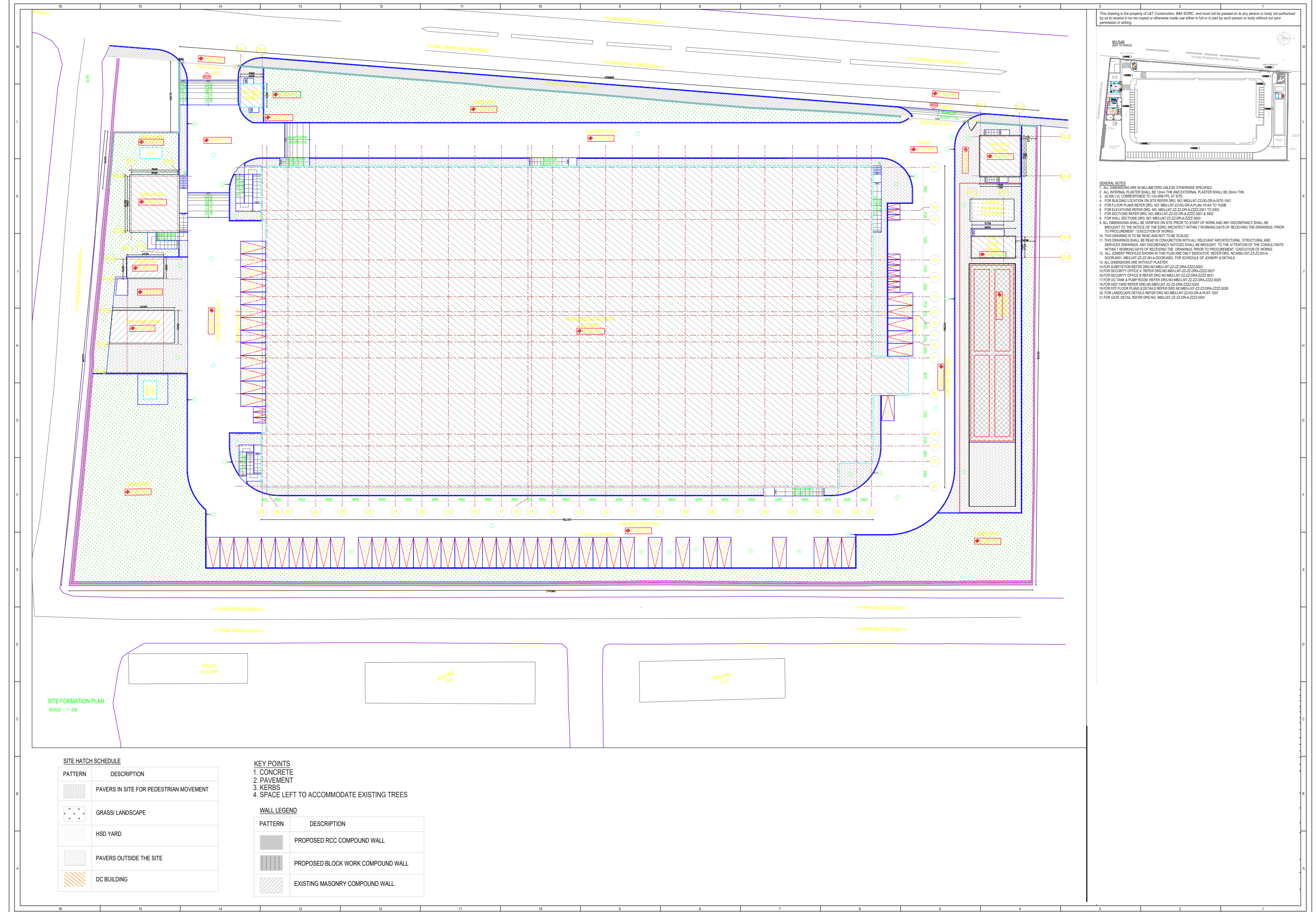


07 ELEVATION - C
1:100



08 ELEVATION - D
1:100

ROOM NAME	TAG	FLOOR FINISH	TAG	CEILING FINISH	TAG	WALL FINISH	SKIRTING FINISH
PUMP ROOM	CR1	DESIGNING DEPENDENT AS PER FORMULA, FINISH - SATIN	SB	EXPOSED TO SLAB		PAINT	



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KEY PLAN (NOT TO SCALE)

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. ALL INTERNAL PLASTER SHALL BE 12mm THK AND EXTERNAL PLASTER SHALL BE 20mm THK
3. 45000 LVL CORRESPONDS TO 45.48M FFL AT SITE
4. FOR BUILDING LOCATION ON SITE REFER DRG. NO. MBS-LNT-ZZ-05-OR-A-SITE-1001
5. FOR FLOOR PLANS REFER DRG. NO. MBS-LNT-ZZ-06-OR-A-PLAN-1004A TO 1002B
6. FOR ELEVATIONS REFER DRG. NO. MBS-LNT-ZZ-07-OR-A-ZZZZ-3001 TO 3003
7. FOR SECTIONS REFER DRG. NO. MBS-LNT-ZZ-08-OR-A-ZZZZ-3001 & 3002
8. FOR WALL SECTIONS REFER DRG. NO. MBS-LNT-ZZ-09-OR-A-ZZZZ-3003
9. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO START OF WORK AND ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE EDC ARCHITECT WITHIN 7 WORKING DAYS OF RECEIVING THE DRAWINGS, PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
10. THIS DRAWING IS TO BE READ AND NOT TO BE SCALED
11. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS. ANY DISCREPANCY NOTICED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANTS WITHIN 7 WORKING DAYS OF RECEIVING THE DRAWINGS, PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
12. ALL JOINERY PROFILES SHOWN IN THIS PLAN ARE ONLY INDICATIVE. REFER DRG. NO. MBS-LNT-ZZ-ZZ-SHA-DOOR/001, MBS-LNT-ZZ-ZZ-SHA-D00R/002, FOR SCHEDULE OF JOINERY & DETAILS.
13. ALL DIMENSIONS ARE WITHOUT PLASTER
14. FOR SUBSTATION REFER DRG. NO. MBS-LNT-ZZ-ZZ-OR-A-ZZZZ-5005
15. FOR SECURITY OFFICE A REFER DRG. NO. MBS-LNT-ZZ-ZZ-OR-A-ZZZZ-5007
16. FOR SECURITY OFFICE B REFER DRG. NO. MBS-LNT-ZZ-ZZ-OR-A-ZZZZ-5001
17. FOR US YARD & PUMP ROOM REFER DRG. NO. MBS-LNT-ZZ-ZZ-OR-A-ZZZZ-5029
18. FOR HSD YARD REFER DRG. NO. MBS-LNT-ZZ-ZZ-OR-A-ZZZZ-5030
19. FOR STP FLOOR PLANS & DETAILS REFER DRG. NO. MBS-LNT-ZZ-ZZ-OR-A-ZZZZ-5038
20. FOR LANDSCAPE DETAILS REFER DRG. NO. MBS-LNT-ZZ-06-OR-A-PLAN-1007
21. FOR GATE DETAIL REFER DRG. NO. MBS-LNT-ZZ-06-OR-A-ZZZZ-5001

SITE HATCH SCHEDULE

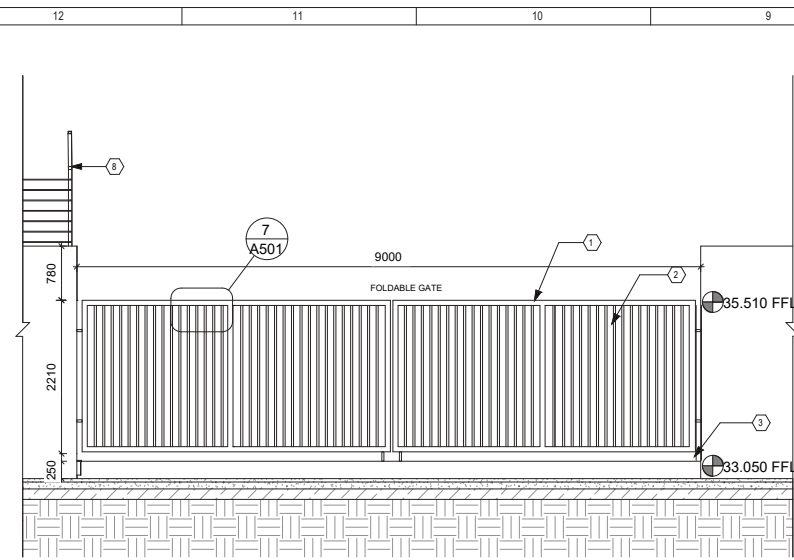
PATTERN	DESCRIPTION
	PAVERS IN SITE FOR PEDESTRIAN MOVEMENT
	GRASS/ LANDSCAPE
	HSD YARD
	PAVERS OUTSIDE THE SITE
	DC BUILDING

KEY POINTS

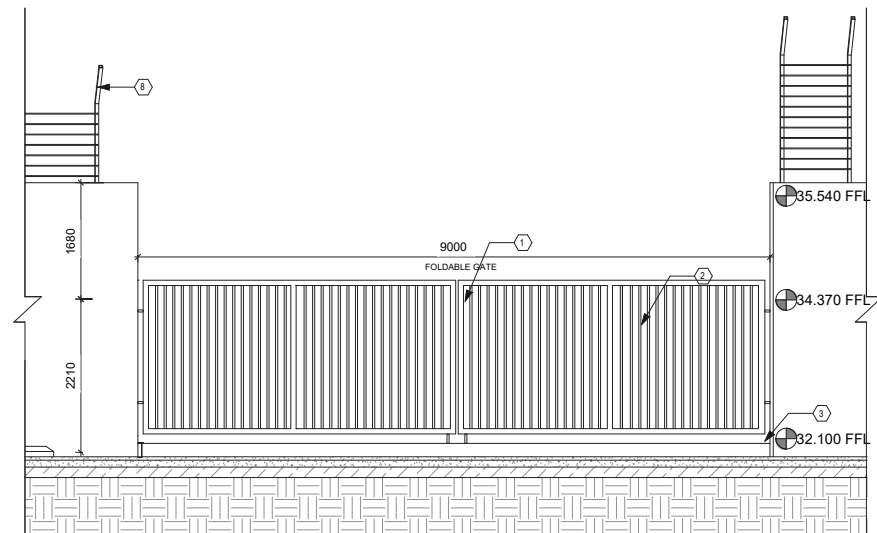
1. CONCRETE
2. PAVEMENT
3. KERBS
4. SPACE LEFT TO ACCOMMODATE EXISTING TREES

WALL LEGEND

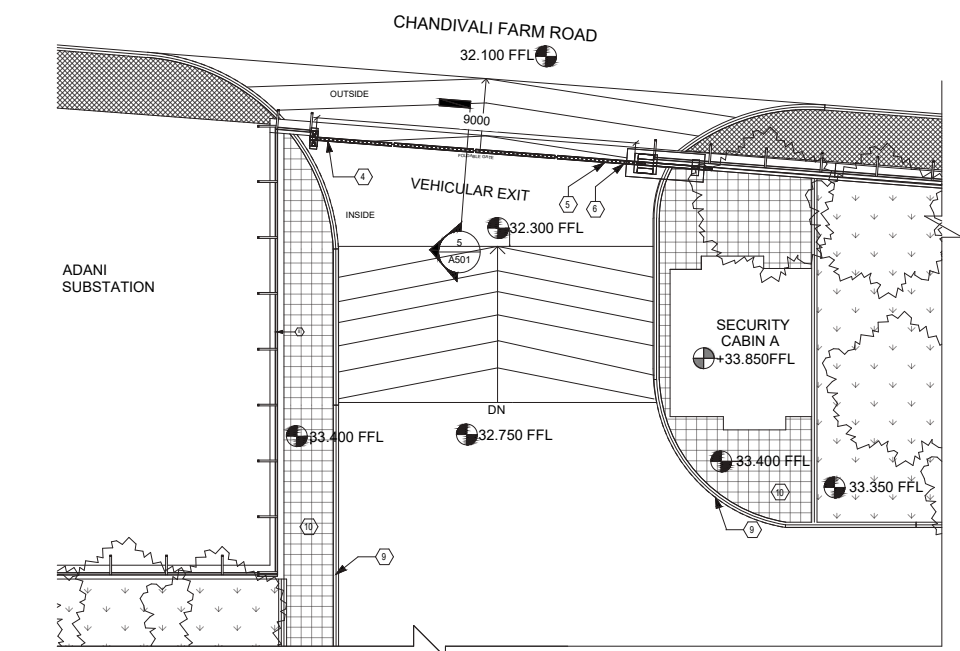
PATTERN	DESCRIPTION
	PROPOSED RCC COMPOUND WALL
	PROPOSED BLOCK WORK COMPOUND WALL
	EXISTING MASONRY COMPOUND WALL



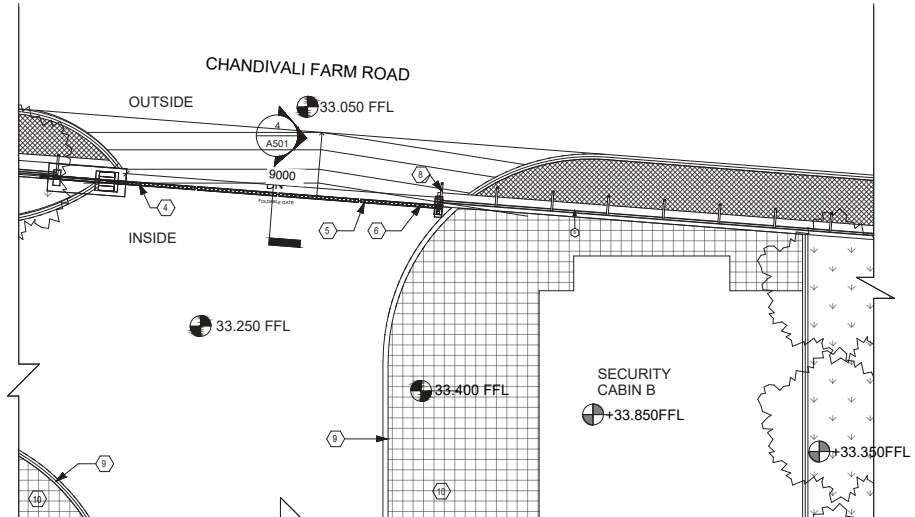
3 SLIDING GATE ELEVATION 1
A501 1:50



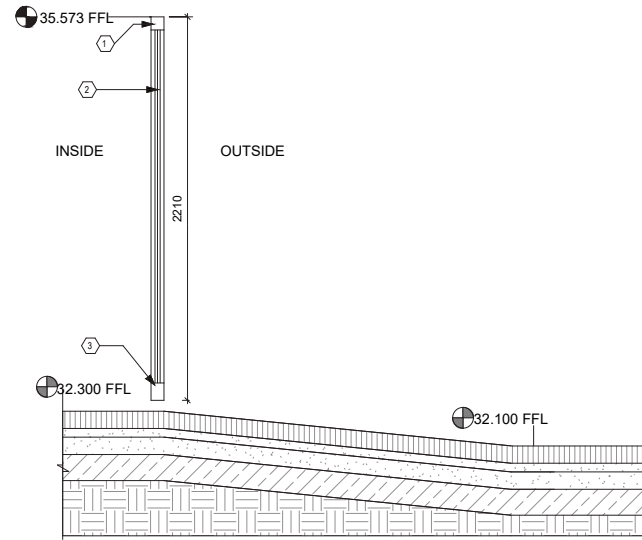
6 SLIDING GATE ELEVATION 2
A501 1:50



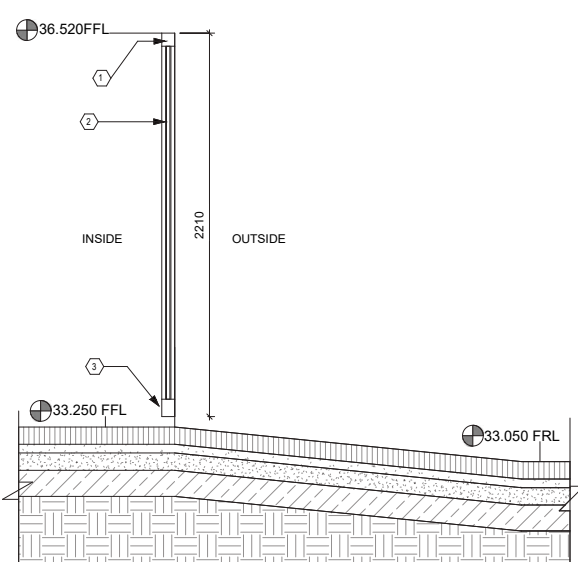
2 WEST GATE #2
A501 1:100



1 WEST GATE #1
A501 1:100



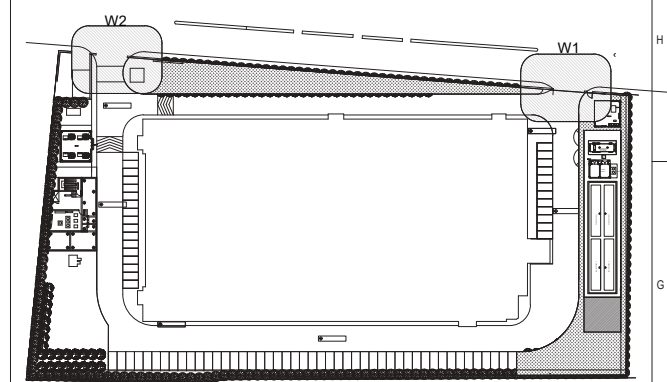
4 SECTION 1
A501 1:20



5 SECTION 2
A501 1:20

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KEY PLAN



GENERAL NOTES:

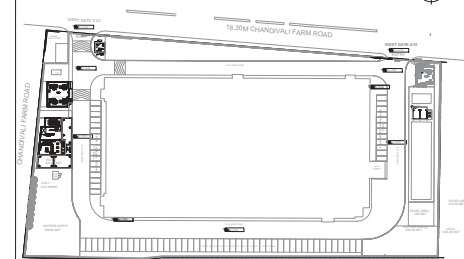
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN mm.
2. DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL AND ELECTRICAL INFORMATION.
3. EQUINIX MAJOR CAPITAL EQUIPMENT (MCE) SHALL BE USED IN ALL INSTANCES UNLESS SITE SPECIFIC CONSTRAINTS DICTATE OTHERWISE.

KEY POINTS

1. 50MM X 50MM MS TUBE FINISHED WITH PAINT OF APPROVED SHADE AND TEXTURE
2. 25MM X 25MM MS TUBE FINISHED WITH PAINT OF APPROVED SHADE AND TEXTURE
3. 50MM X 100MM MS TUBE BASE MEMBER FINISHED WITH PAINT OF APPROVED SHADE AND TEXTURE
4. 75MM WIDE TRACK FOR SLIDING GATE
5. M.S FIXED GATE FINISHED WITH PAINT AS PER APPROVED SHADE AND MAKE
6. M.S AUTOMATED SLIDING GATE FINISHED WITH PAINT AS PER APPROVED SHADE AND MAKE
7. RCC COLUMN FINISHED WITH APPROVED PAINT
8. COMPOUND WALL-REFER SEPARATE DRAWING
9. KERB WALL
10. PAVEMENT

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KEY PLAN (NOT TO SCALE)



GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. ALL INTERNAL PLASTER SHALL BE 12mm THK AND EXTERNAL PLASTER SHALL BE 20mm THK.
3. ±0.000 LVL CORRESPONDS TO +33.40M FFL AT SITE
4. FOR BUILDING LOCATION ON SITE REFER DRG. NO. MB3-LNT-ZZ-00-DR-A-SITE-1001
5. FOR FLOOR PLANS REFER DRG. NO. MB3-LNT-ZZ-00-DR-A-PLAN-1014A TO 1020B
6. FOR ELEVATIONS REFER DRG. NO. MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-2001 TO 2003
7. FOR SECTIONS REFER DRG. NO. MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-3001 & 3002
8. FOR WALL SECTIONS DRG. NO. MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-3003
9. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO START OF WORK AND ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE EDRG ARCHITECT WITHIN 7 WORKING DAYS OF RECEIVING THE DRAWINGS, PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
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12. ALL JOINTS PROFILES SHOWN IN THIS PLAN ARE ONLY INDICATIVE. REFER DRG. NO.MB3-LNT-ZZ-ZZ-SHA-DOOR-6001, MB3-LNT-ZZ-ZZ-SHA-DOOR-6002, FOR SCHEDULE OF JOINTS & DETAILS.
13. ALL DIMENSIONS ARE WITHOUT PLASTER.
14. FOR SUBSTATION REFER DRG. NO.MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-5005
15. FOR SECURITY OFFICE A REFER DRG. NO.MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-5007
16. FOR SECURITY OFFICE B REFER DRG. NO.MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-5001
17. FOR UG TANK & PUMP ROOM REFER DRG. NO.MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-5029
18. FOR HSD YARD REFER DRG. NO.MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-5030
19. FOR STP FLOOR PLANS & DETAILS REFER DRG. NO.MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-5028
20. FOR LANDSCAPE DETAILS REFER DRG. NO.MB3-LNT-ZZ-00-DR-A-PLNT-1007
21. FOR GATE DETAIL REFER DRG. NO. MB3-LNT-ZZ-ZZ-DR-A-ZZZZ-5001

SURVEY DRAWING AND STRUCTURAL INPUTS IN THE NEXT REVISION.

KEY NOTES

1. ANTI CLIMB FENCE AS PER VENDOR DETAILS
2. PROPOSED RCC COMPOUND WALLS (AS PER STRUCTURE) WITH PAINT FINISH
3. EXISTING COMPOUND WALL
4. TO BE DECIDED BASED UP ON SERVICE TRENCH REQUIREMENT

LEGEND
FFL: FINISHED FLOOR LEVEL
NGL: NATURAL GROUND LEVEL
FGL: FINISHED GROUND LEVEL
TYP: TYPICAL
THK: THICK
TOC: TOP OF CONCRETE
TOP OF COMPOUND WALL

WALL TYPES LEGEND

- 200MM THK AAC BLOCK WORK
- 150MM THK AAC BLOCK WORK
- 100MM THK AAC BLOCK WORK
- RCC WALL / RCC COLUMN

LEGEND

- LANDSCAPE
- PAVERS

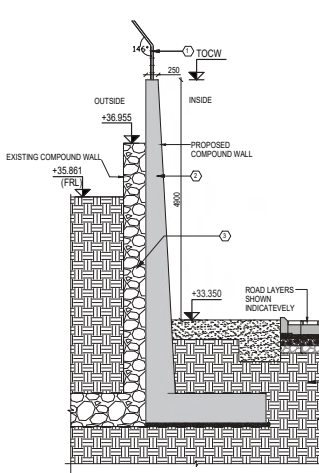
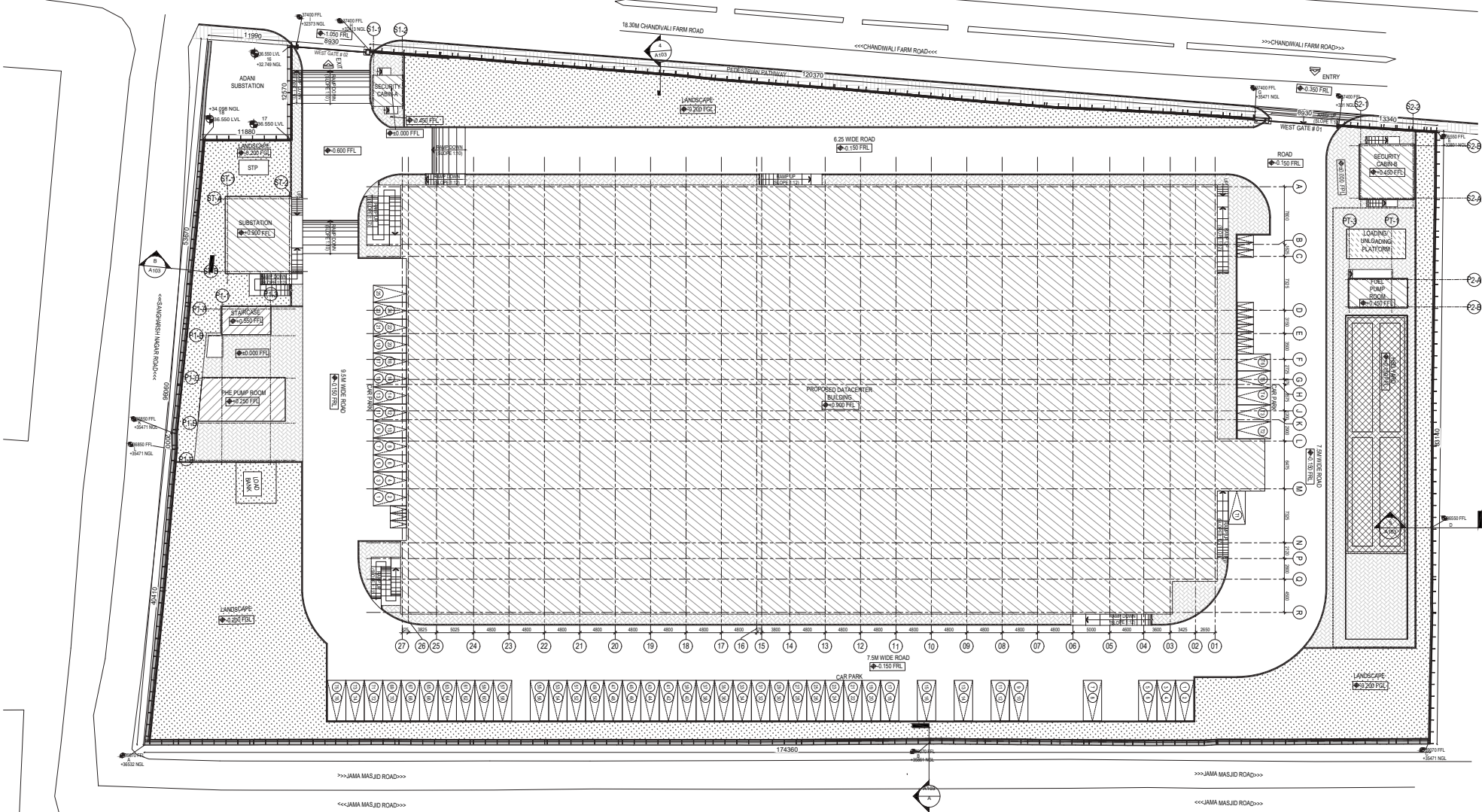
WALL LEGEND

PATTERN DESCRIPTION

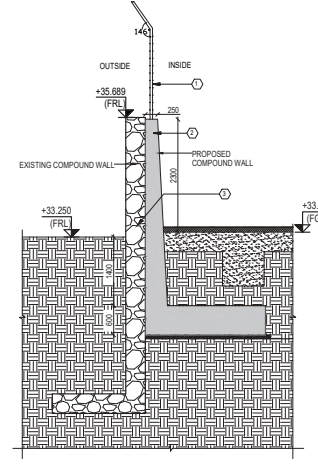
- PROPOSED RCC COMPOUND WALL

- PROPOSED BLOCK WORK COMPOUND WALL

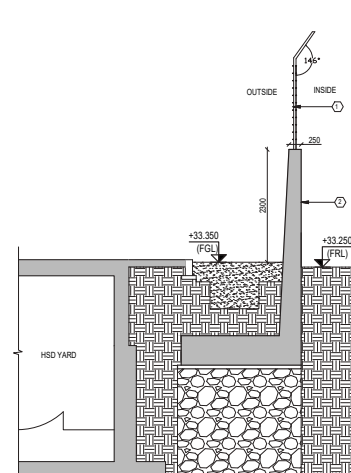
- EXISTING MASONRY COMPOUND WALL



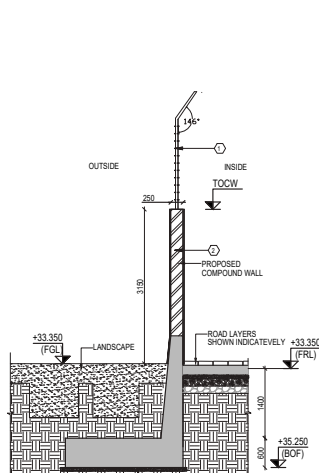
SECTION A-A
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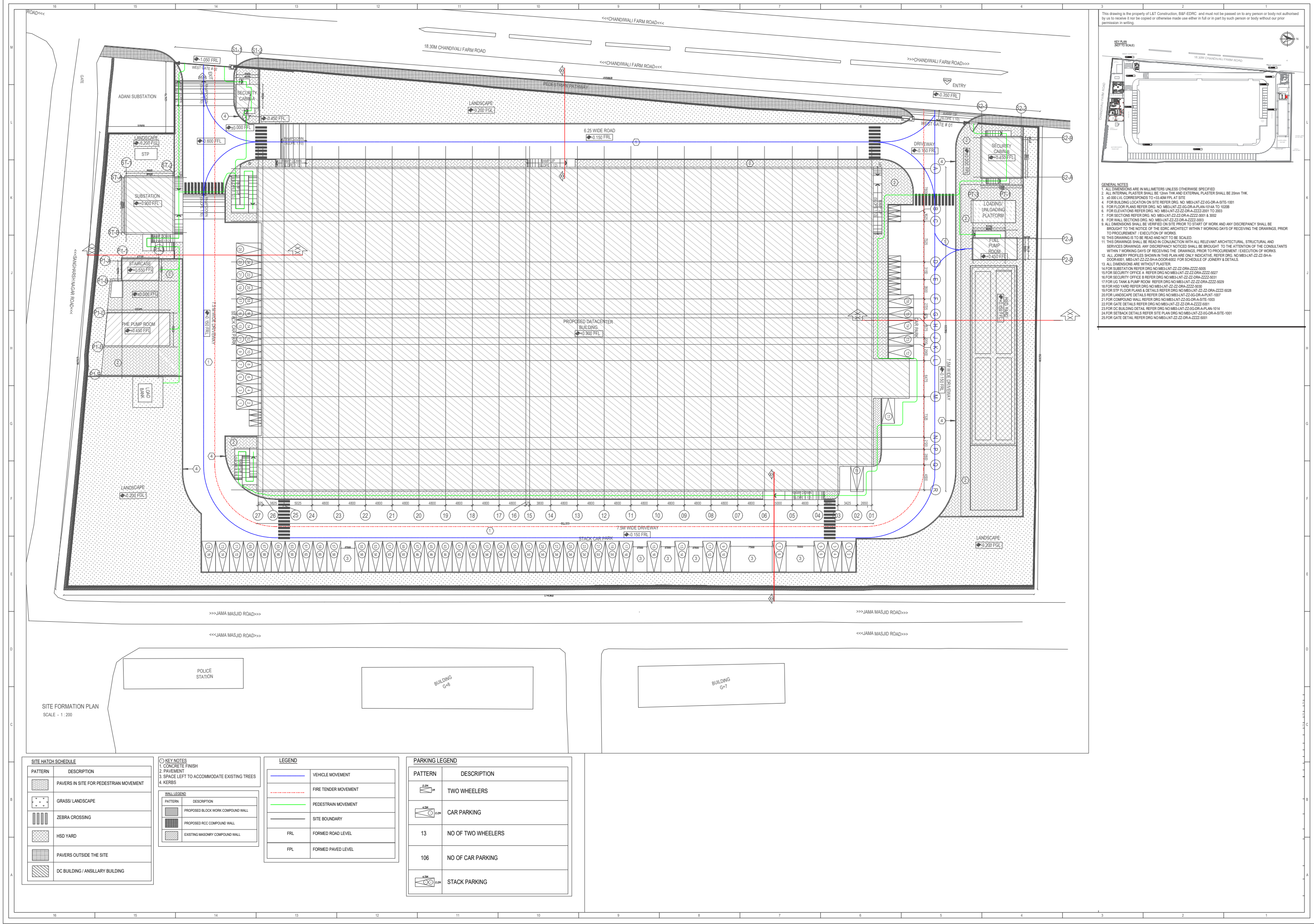
SECTION B-B
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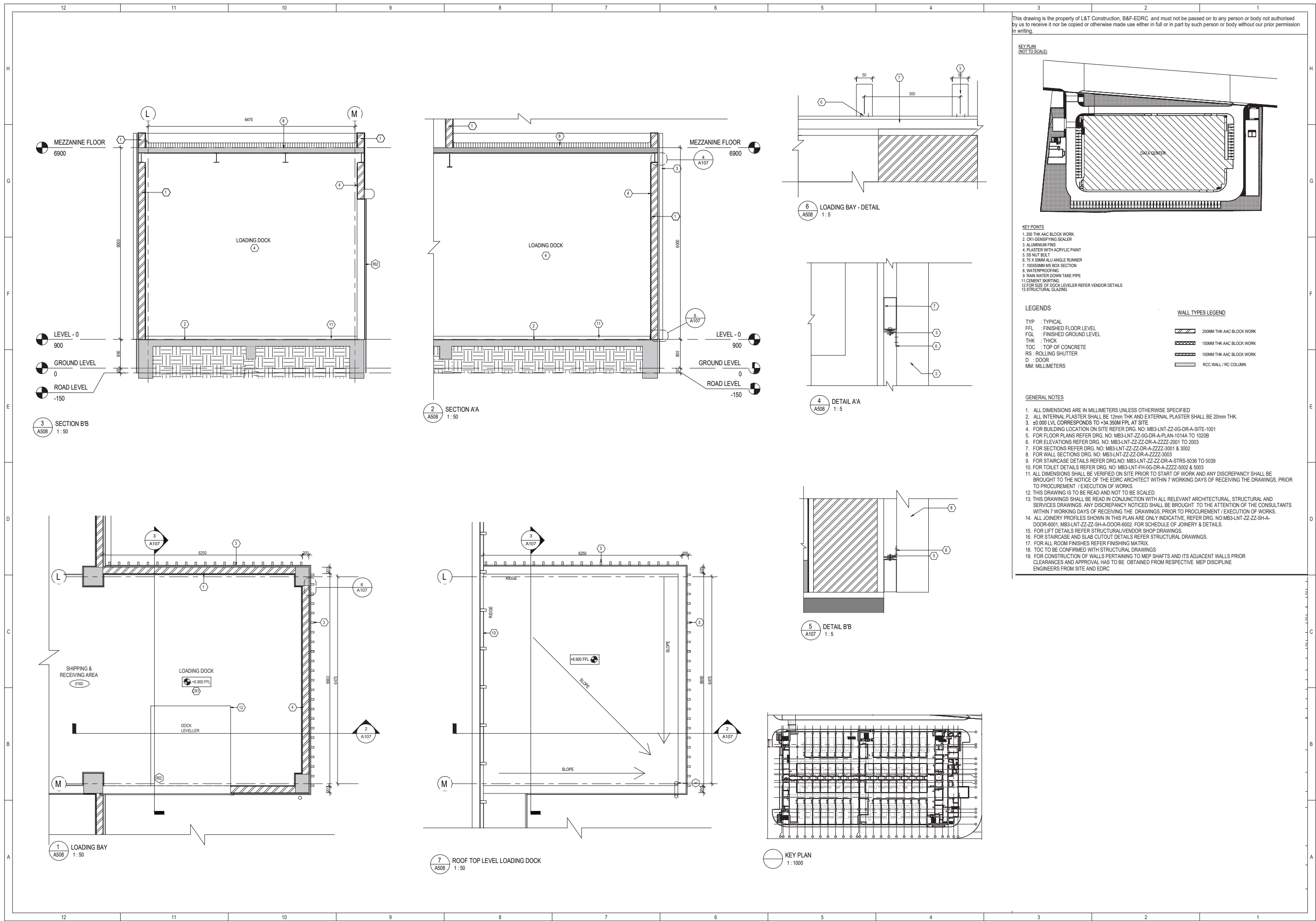


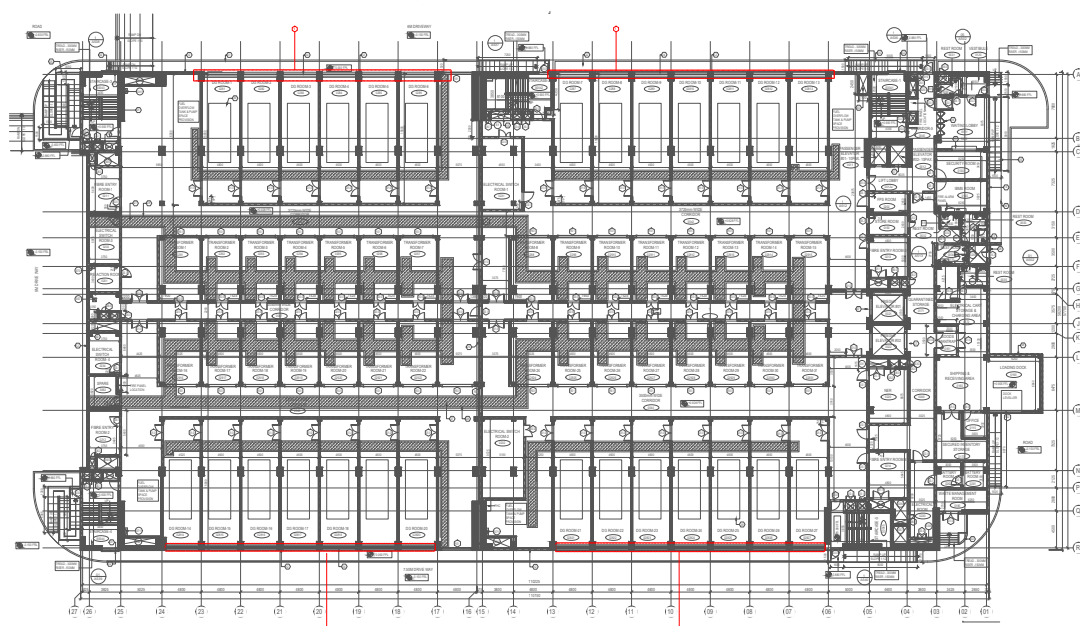
SECTION C-C
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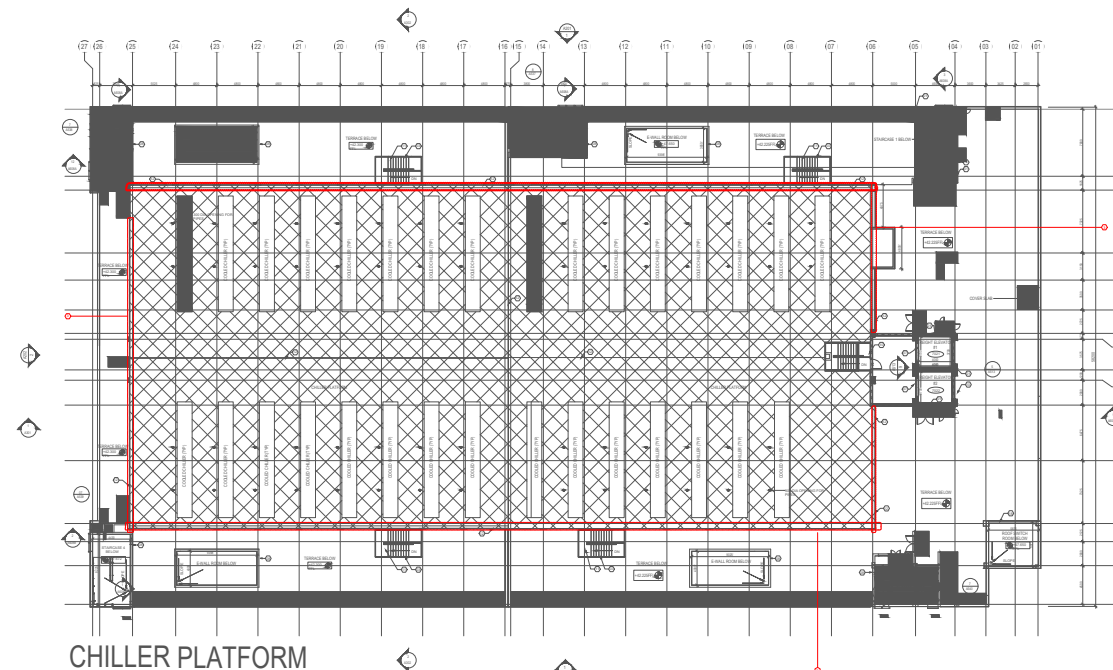
SECTION D-D
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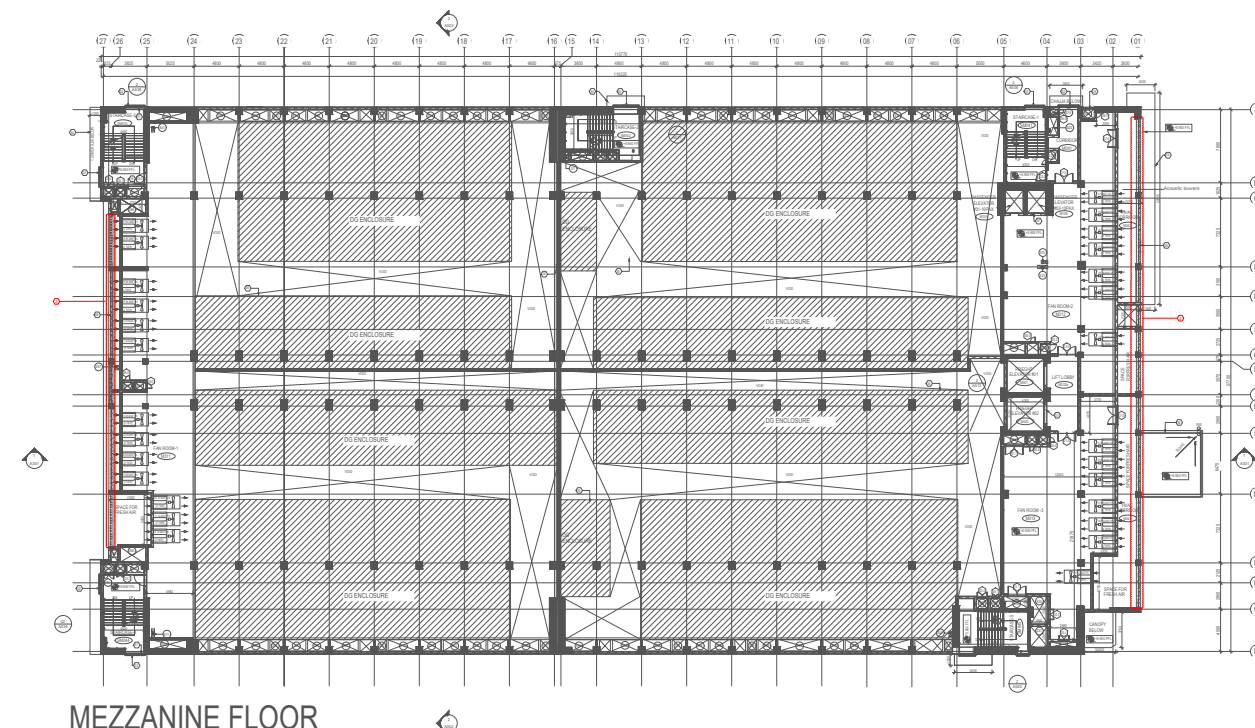




GROUND FLOOR LEVEL



CHILLER PLATFORM



MEZZANINE FLOOR

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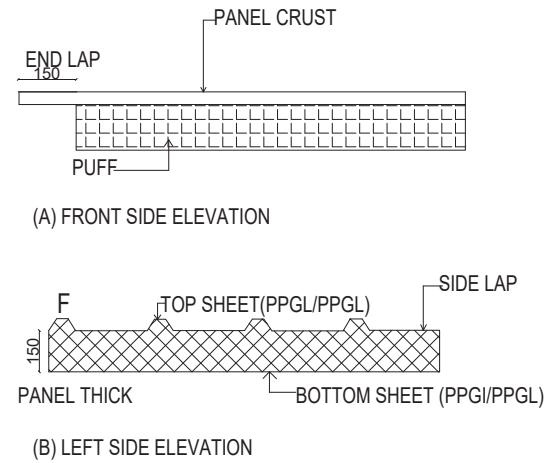
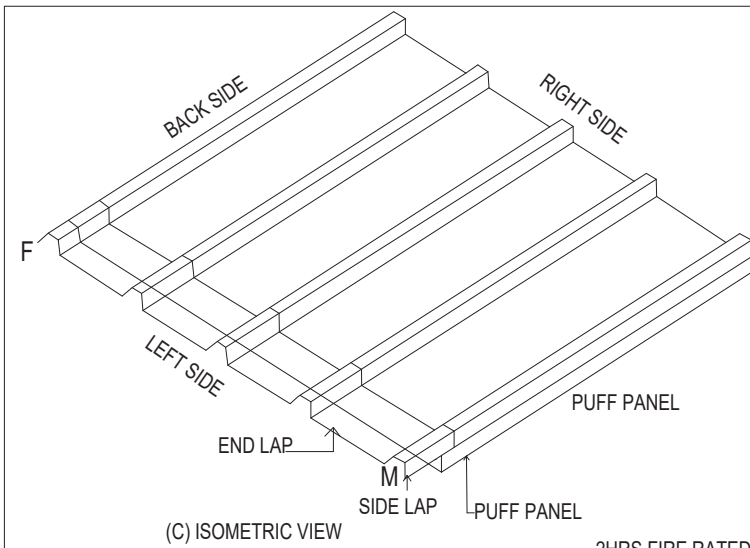


GENERAL NOTES

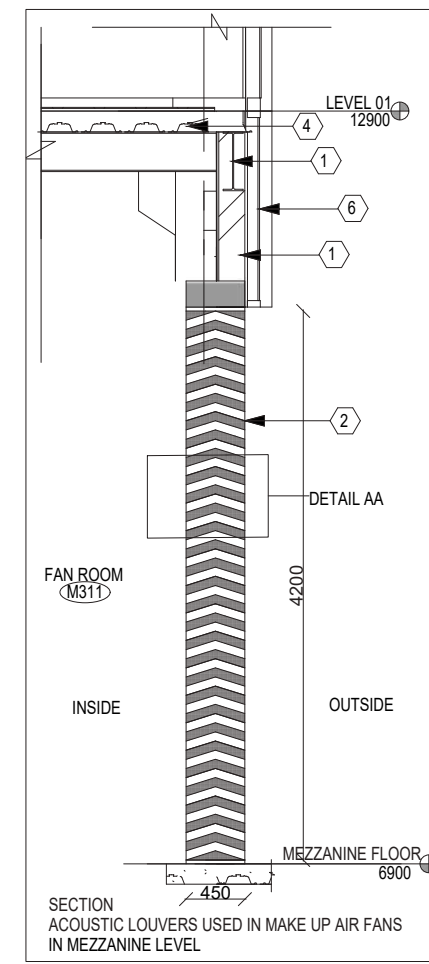
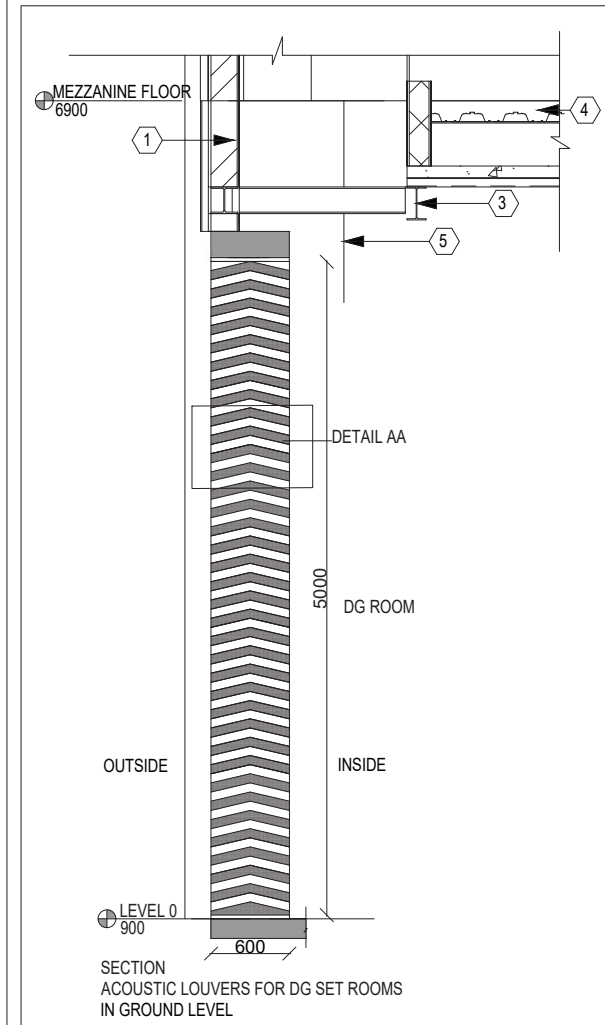
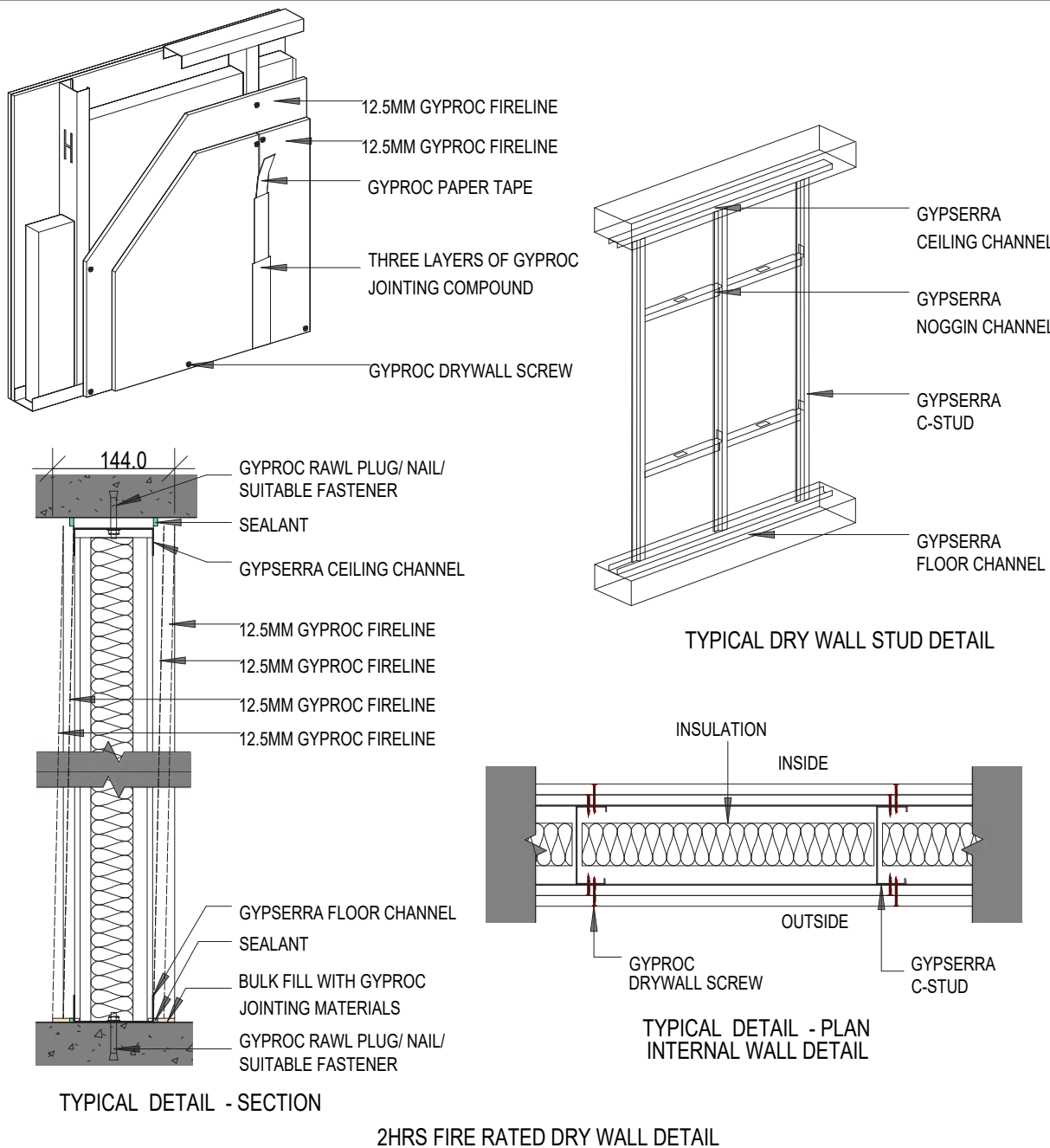
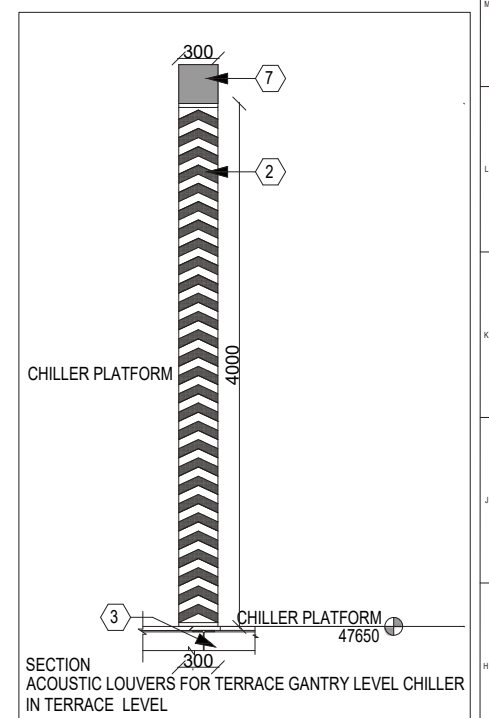
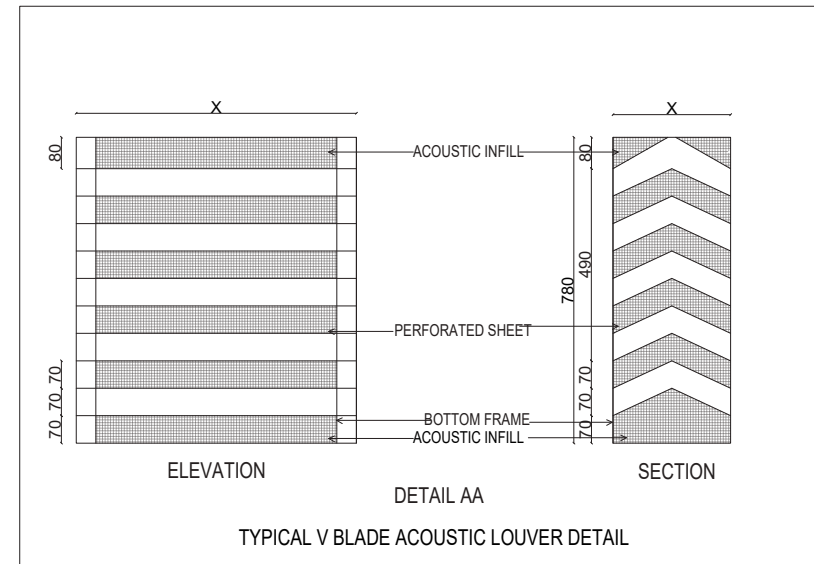
1. ALL DIMENSIONS AND LEVELS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. ALL INTERNAL PLASTER SHALL BE 12mm THK AND EXTERNAL PLASTER SHALL BE 20mm THK.
3. JAMBOLLY CORRESPONDS TO 34.350M PPA AT SITE.
4. FOR BUILDING LOCATION ON SITE REFER FILE NO. MBS-LNT-ZZ-05-DR-A-SITE-1001
5. FOR FLOOR PLANS REFER FILE NO. MBS-LNT-ZZ-05-DR-A-PLAN-1041 TO 1028
6. FOR ELEVATIONS REFER FILE NO. MBS-LNT-ZZ-05-DR-A-ZZZZ-2001 TO 2003
7. FOR SECTIONS REFER FILE NO. MBS-LNT-ZZ-05-DR-A-ZZZZ-3001 & 3002
8. FOR WALL SECTIONS REFER FILE NO. MBS-LNT-ZZ-05-DR-A-ZZZZ-3003
9. FOR STAIRCASE DETAILS REFER FILE NO. MBS-LNT-ZZ-05-DR-A-STAIRS-3008 TO 3009
10. FOR TOILET DETAILS REFER FILE NO. MBS-LNT-FIN-05-DR-A-ZZZZ-0002 & 0003
11. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO START OF WORK AND ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE EDRC ARCHITECT WITHIN 7 WORKING DAYS OF RECEIVING THE DRAWINGS, PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
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14. ALL JOINERY PROFILES SHOWN IN THIS PLAN ARE ONLY INDICATIVE. REFER FILE NO. MBS-LNT-ZZ-05-DR-A-DOOR-6001, MBS-LNT-ZZ-05-DR-A-WINDOW-6002 FOR SCHEDULE OF JOINERY & DETAILS.
15. FOR LIFT DETAILS REFER STRUCTURAL/MECHANICAL SHOP DRAWINGS.
16. FOR STAIRCASE AND SLAB OUTLET DETAILS REFER STRUCTURAL DRAWINGS.
17. FOR ALL ROOM FINISHES REFER FINISHING MATRIX.
18. TOC TO BE CONFIRMED WITH STRUCTURAL DRAWINGS.
19. FOR CONSTRUCTION OF WALLS PERTAINING TO MEP SHAFTS AND ITS ADJACENT WALLS PRIOR CLEARANCES AND APPROVAL HAS TO BE OBTAINED FROM RESPECTIVE MEP DISCIPLINE ENGINEERS FROM SITE AND EDRC.
20. GLAZING SHALL BE AS PER SPECIFICATION.
21. ALL OPENINGS DIMENSIONS ARE WITHOUT PLASTER.
22. REFUGE AREA HAS BEEN PROVIDED BASED ON RIBA'S DRAWINGS.
23. FOR LANDSCAPE, ANCILLARY BUILDING, DRIVE WAY, COMPOUND WALLS & PAVERS REFER SEPRATE DRAWINGS.

- PLAN KEY NOTES
- 60MM-V BLADE ACOUSTIC LOUVER
 - 40MM-V BLADE ACOUSTIC LOUVER
 - 30MM-V BLADE ACOUSTIC LOUVER

FOR SECTIONAL DETAILS, BLOW UP DETAILS REFER DRAWING NUMBER - AS033



2HRS FIRE RATED PANEL DETAIL FOR DG ROOF



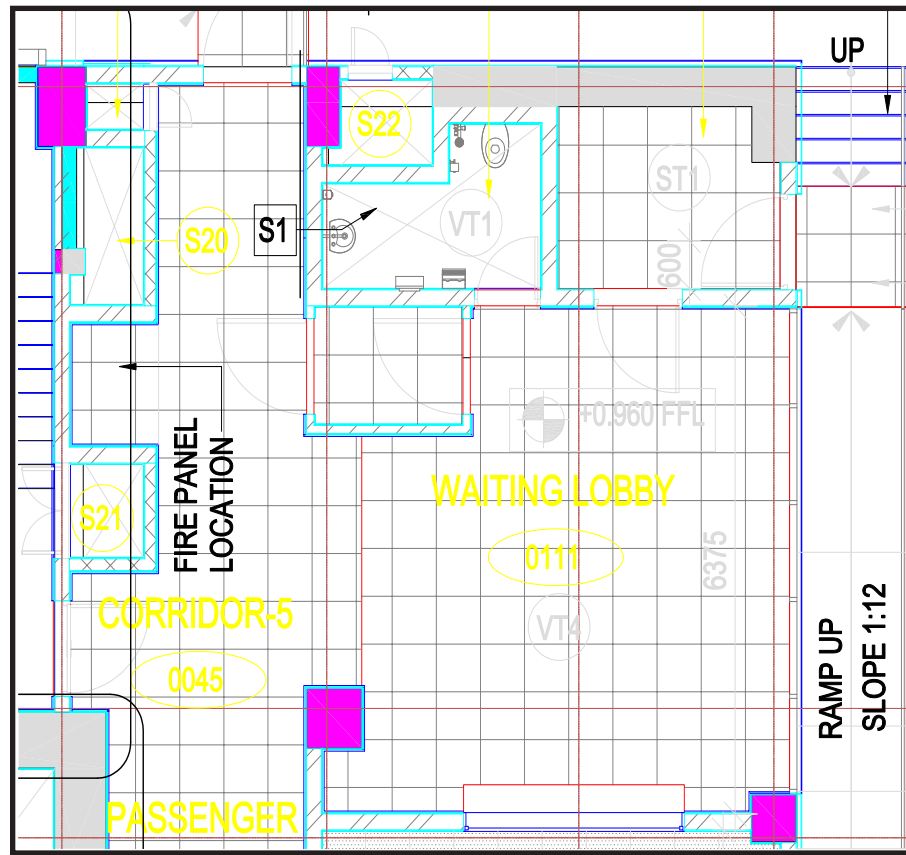
- GENERAL NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
 2. STAIRCASE RISER = 150mm AND TREAD = 300mm MAX 12 RISERS IN ONE FLIGHT. MINIMUM CLEAR WIDTH OF STAIRCASE BETWEEN HAND RAILING AND MID LANDING IS 1500mm. UNLESS NOTED OTHERWISE.
 3. RAINWATER DOWN TAKE PIPES SHALL EXTEND UP TO FGL.
 4. ALL FLOOR AND WALL CUTOUTS SHALL BE CLOSED WITH 2 HOURS FIRE RATED SEALANT AS PER MANUFACTURE SPECIFICATION.
 5. ALL INTERNAL PLASTER SHALL BE 12mm THK AND EXTERNAL PLASTER SHALL BE 20mm THK.
 6. REFER ALL CUTOUTS IN CONJUNCTION WITH RELATED HVAC, FIRE SYSTEM AND ELECTRICAL MODEL.
 7. ANY DISCREPANCY IN MODEL/DRAWING AND DETAILS SHALL BE BRING TO THE NOTICE OF CONSULTANT BEFORE EXECUTION AT SITE.
 8. GLAZING SHALL BE AS PER SPECIFICATION.
 9. ALL OPENINGS DIMENSIONS ARE WITHOUT PLASTER.
 10. ALL FLOOR CUTOUTS SHALL HAVE 150mm RCC UPSTAND ALONG PERIPHERY.

KEY POINTS

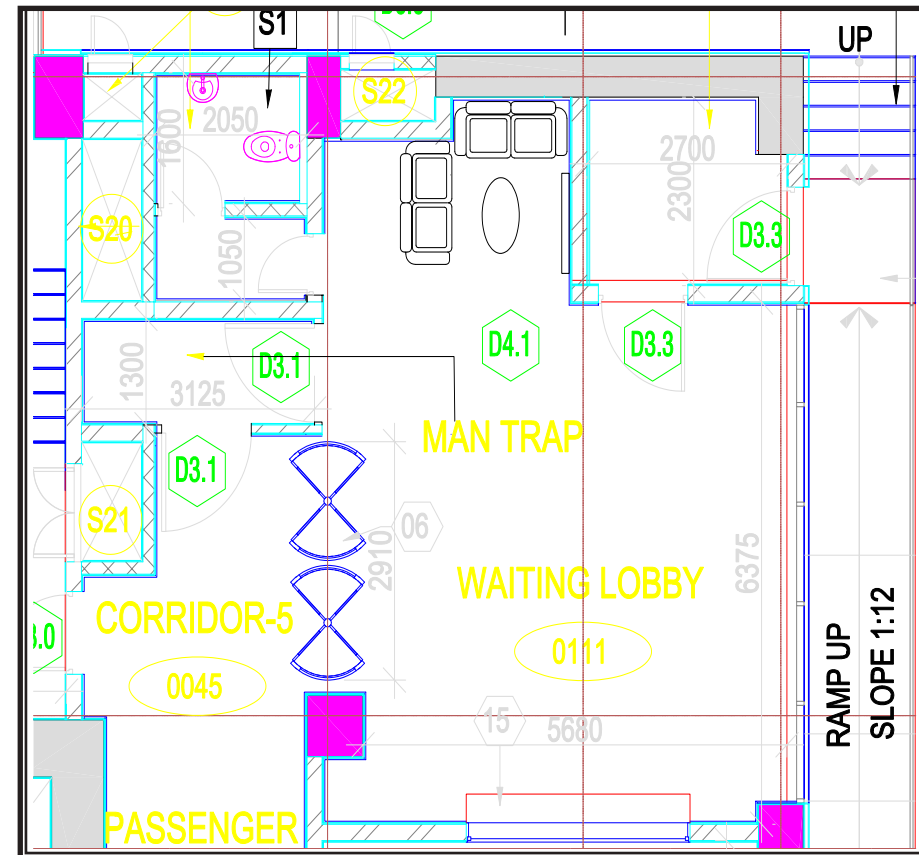
1. 200 THK AAC BLOCK WORK
2. VIBRAC ACOUSTIC LOUVER
3. US&M - REFER STRUCTURAL DRAWING
4. RC SLAB - REFER STRUCTURAL DRAWING
5. RC COLUMN - REFER STRUCTURAL DRAWING
6. STRUCTURAL GLAZING FOR DETAIL REFER SEPARATE DRAWING
7. FRAME - REFER STRUCTURAL DRAWING

WALL TYPES LEGEND

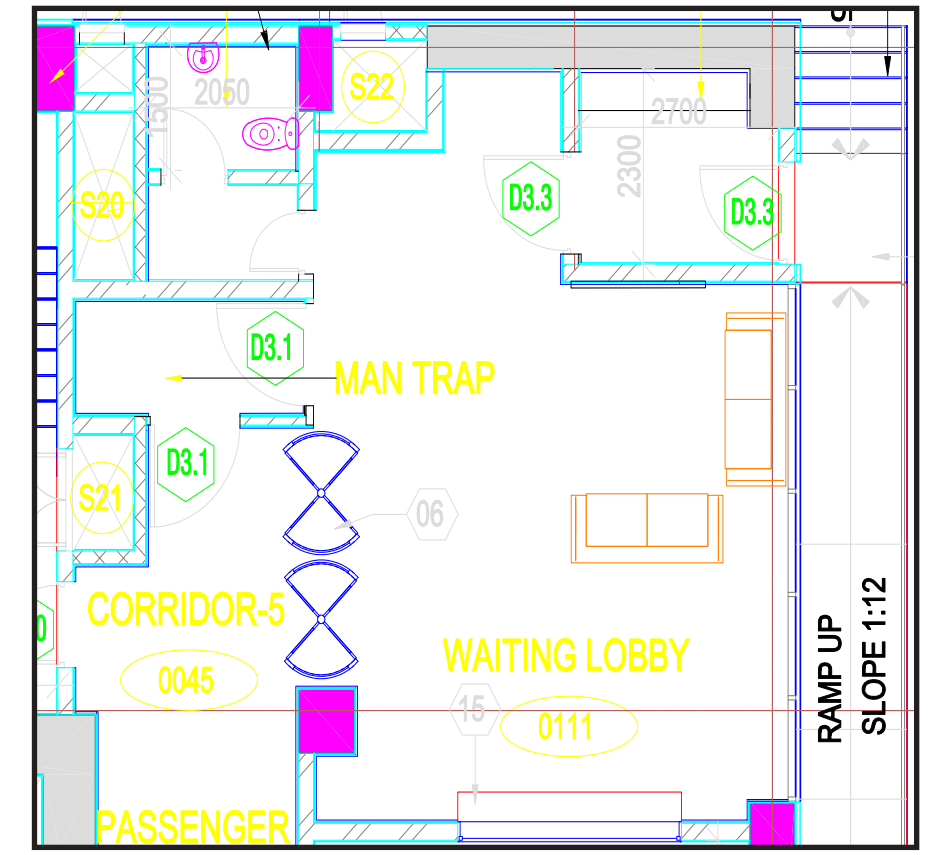
	200MM THK AAC BLOCK WORK
	150MM THK AAC BLOCK WORK
	100MM THK AAC BLOCK WORK
	RCC WALL / RC COLUMN



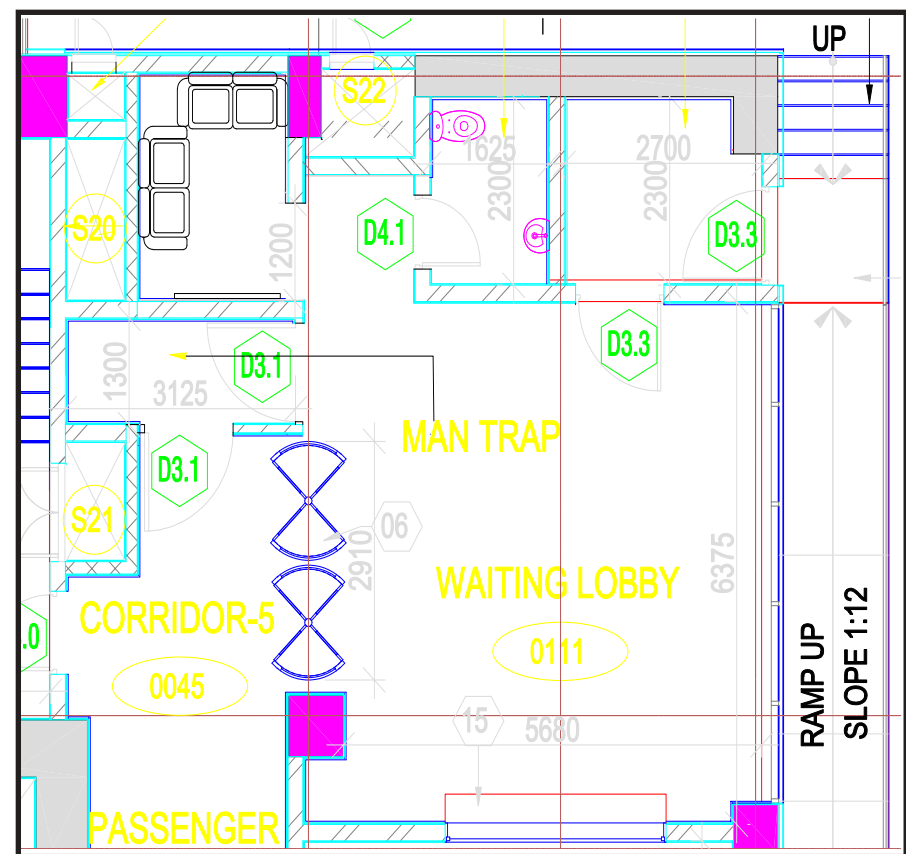
EXISTING PLAN



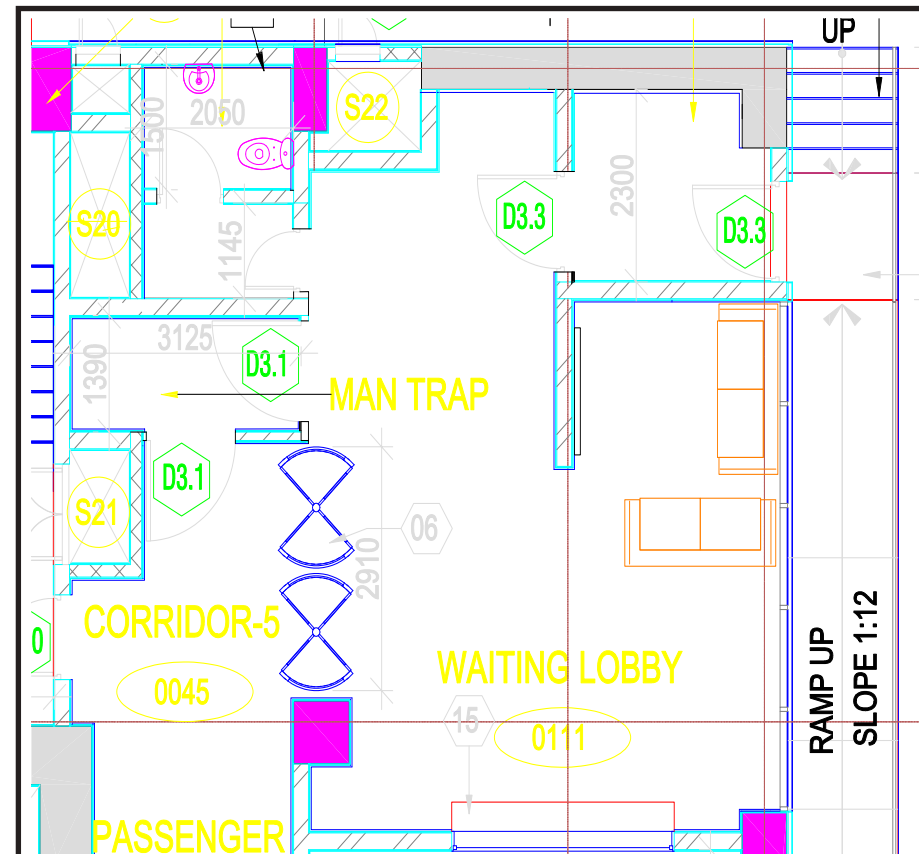
OPTION-1



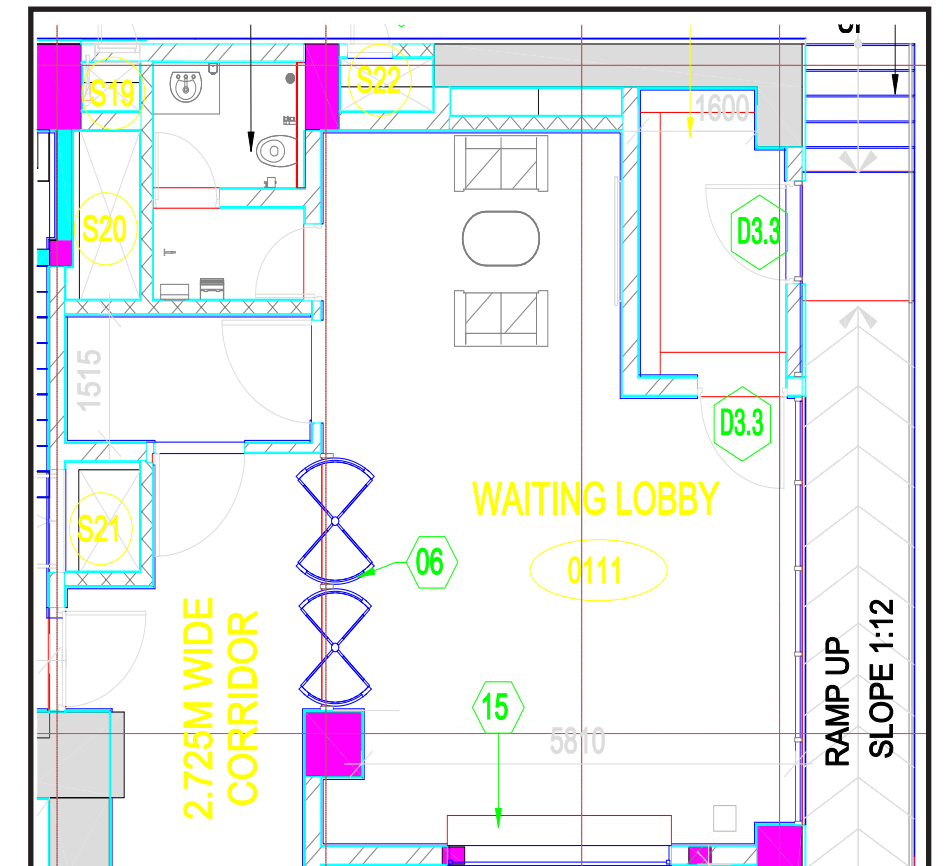
OPTION-2



OPTION-3

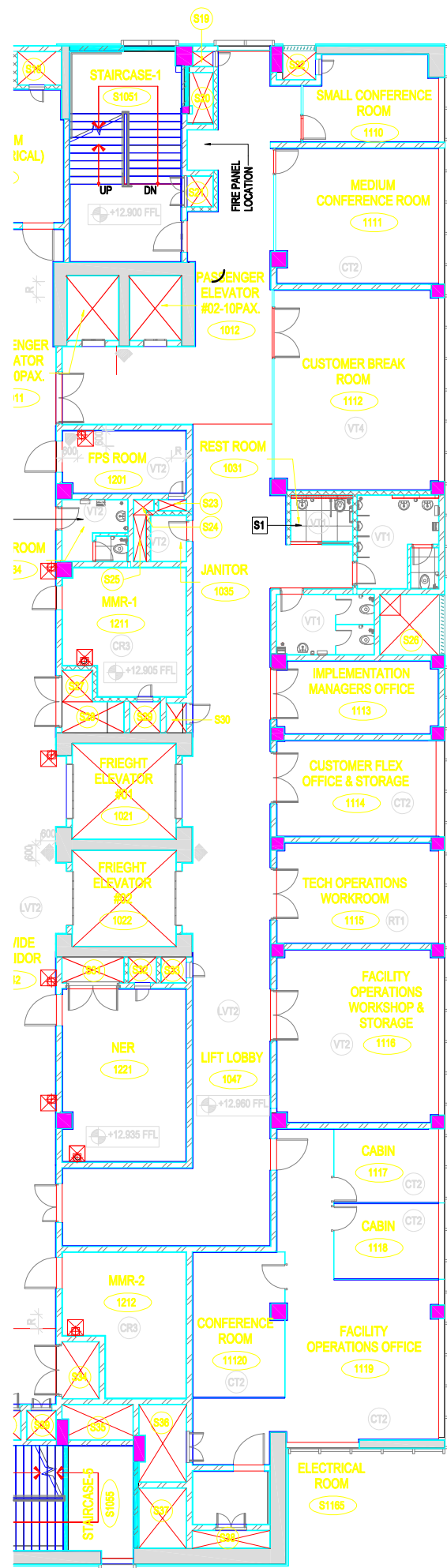


OPTION 4

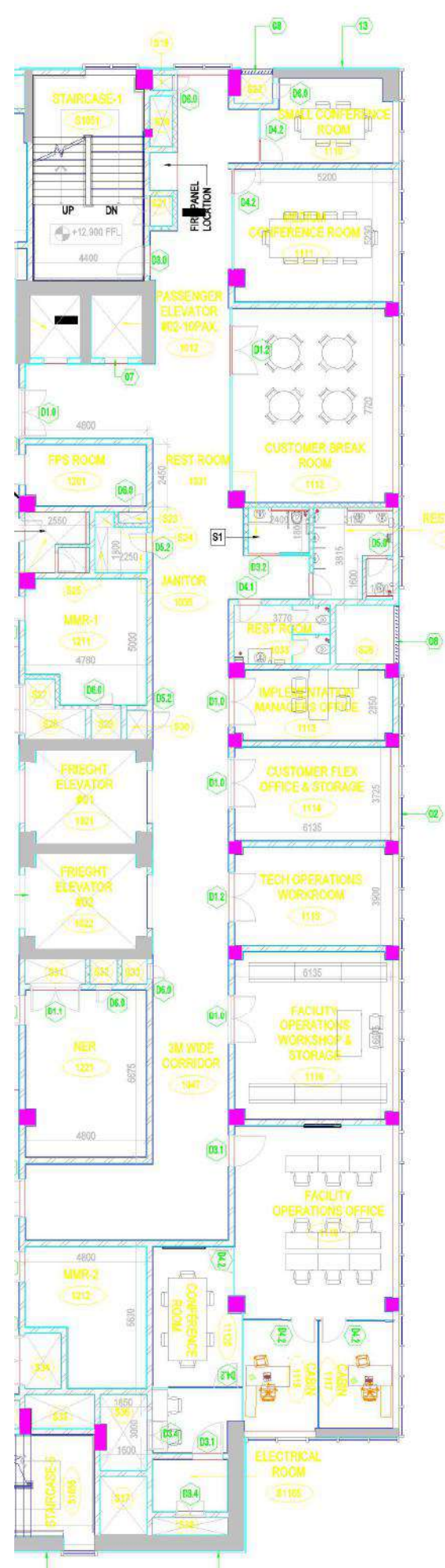


OPTION-5

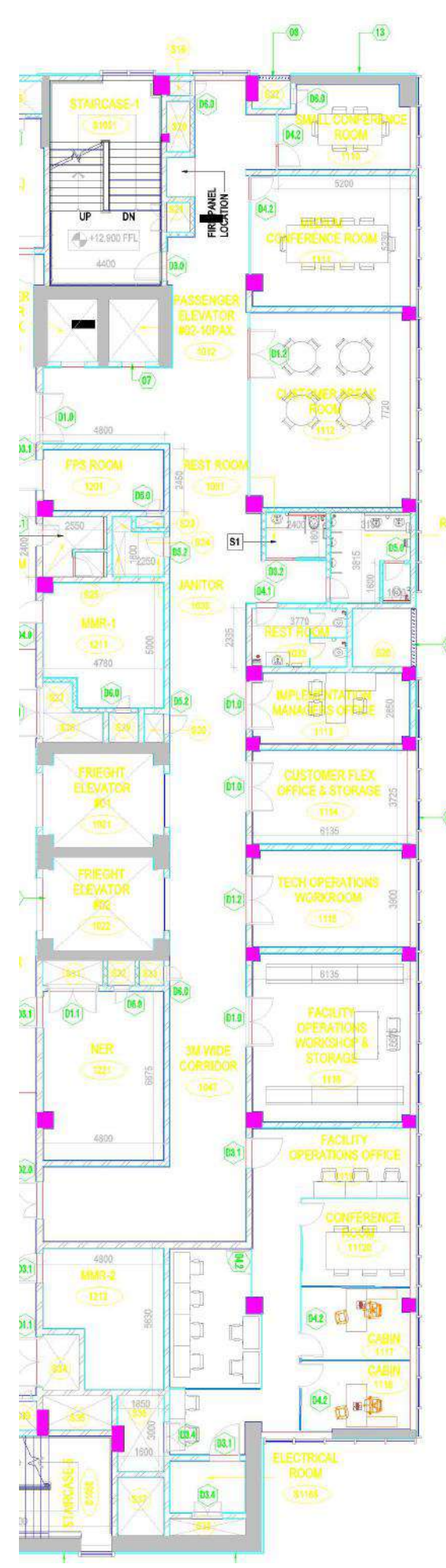
12- GROUND FLOOR-WAITING LOBBY DATA CENTER,MUMBAI



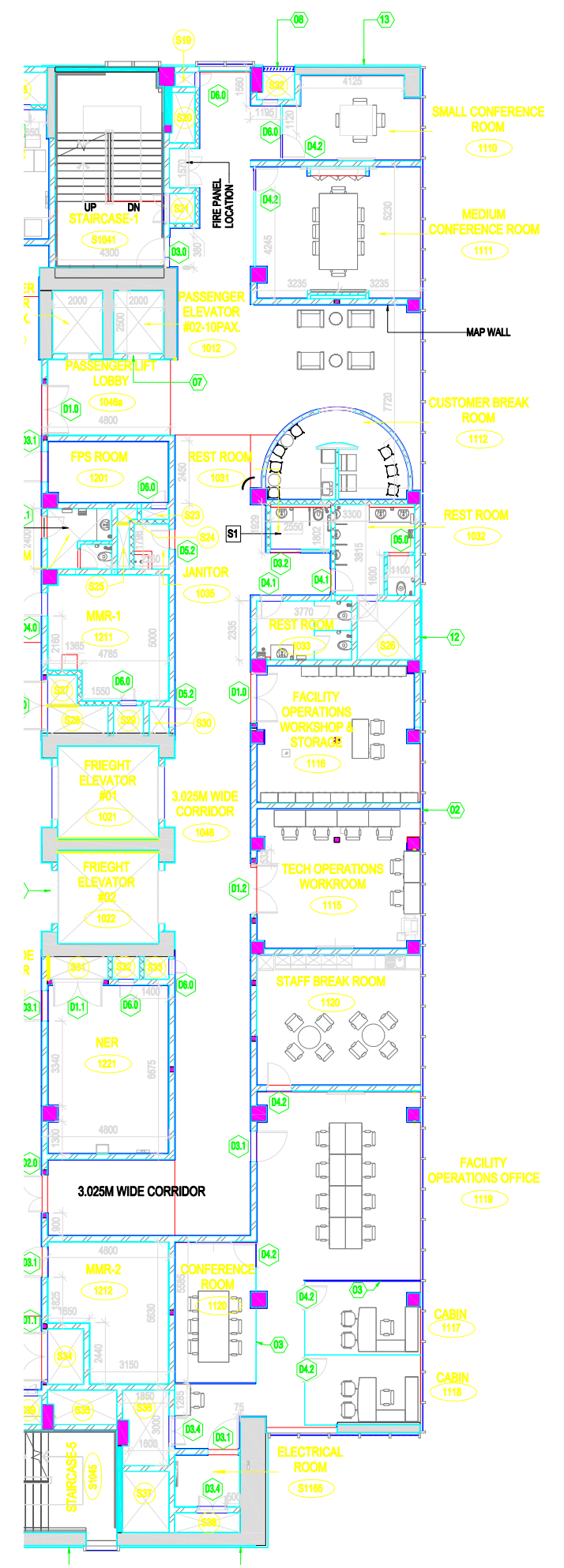
EXISTING PLAN



OPTION-1

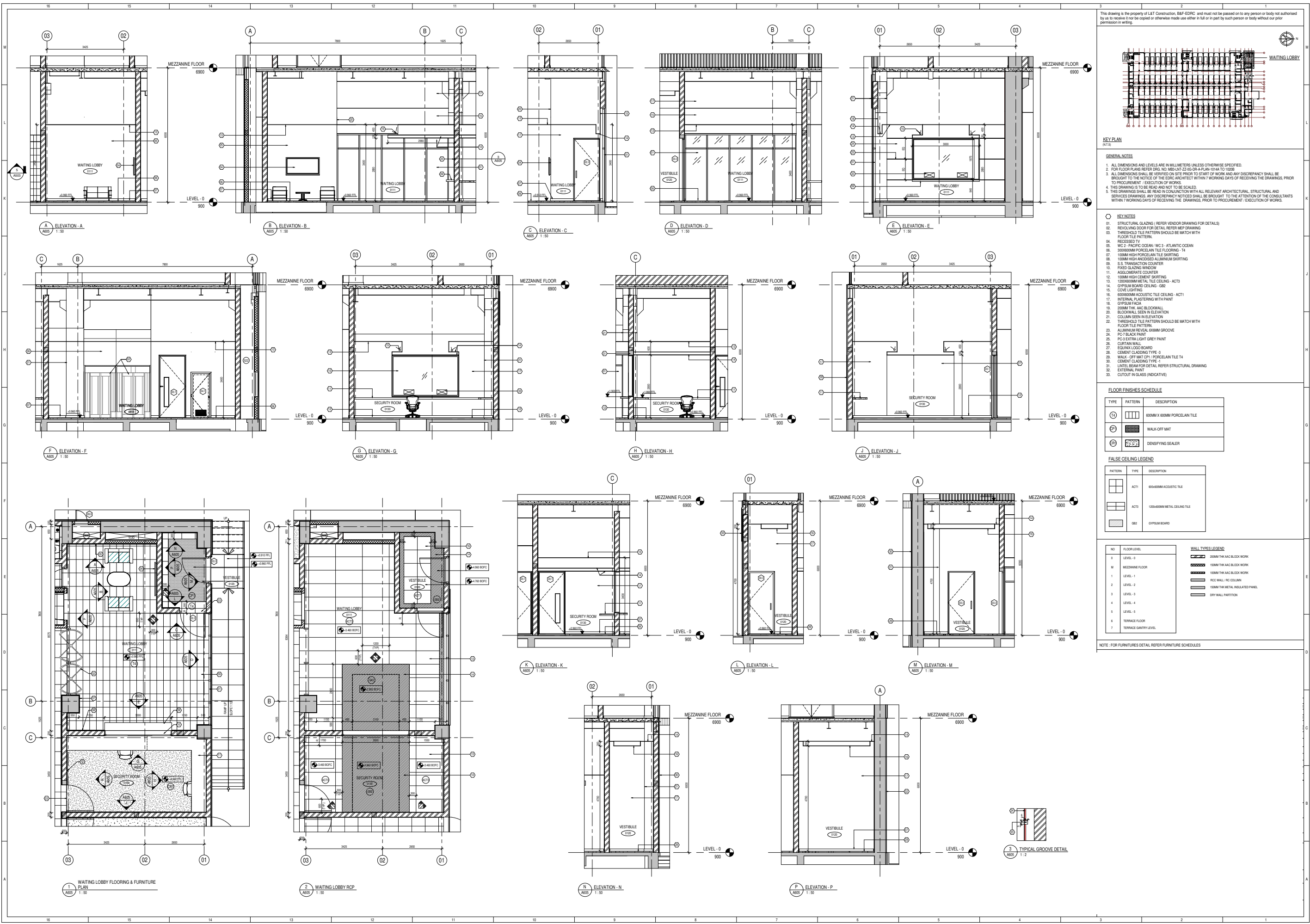


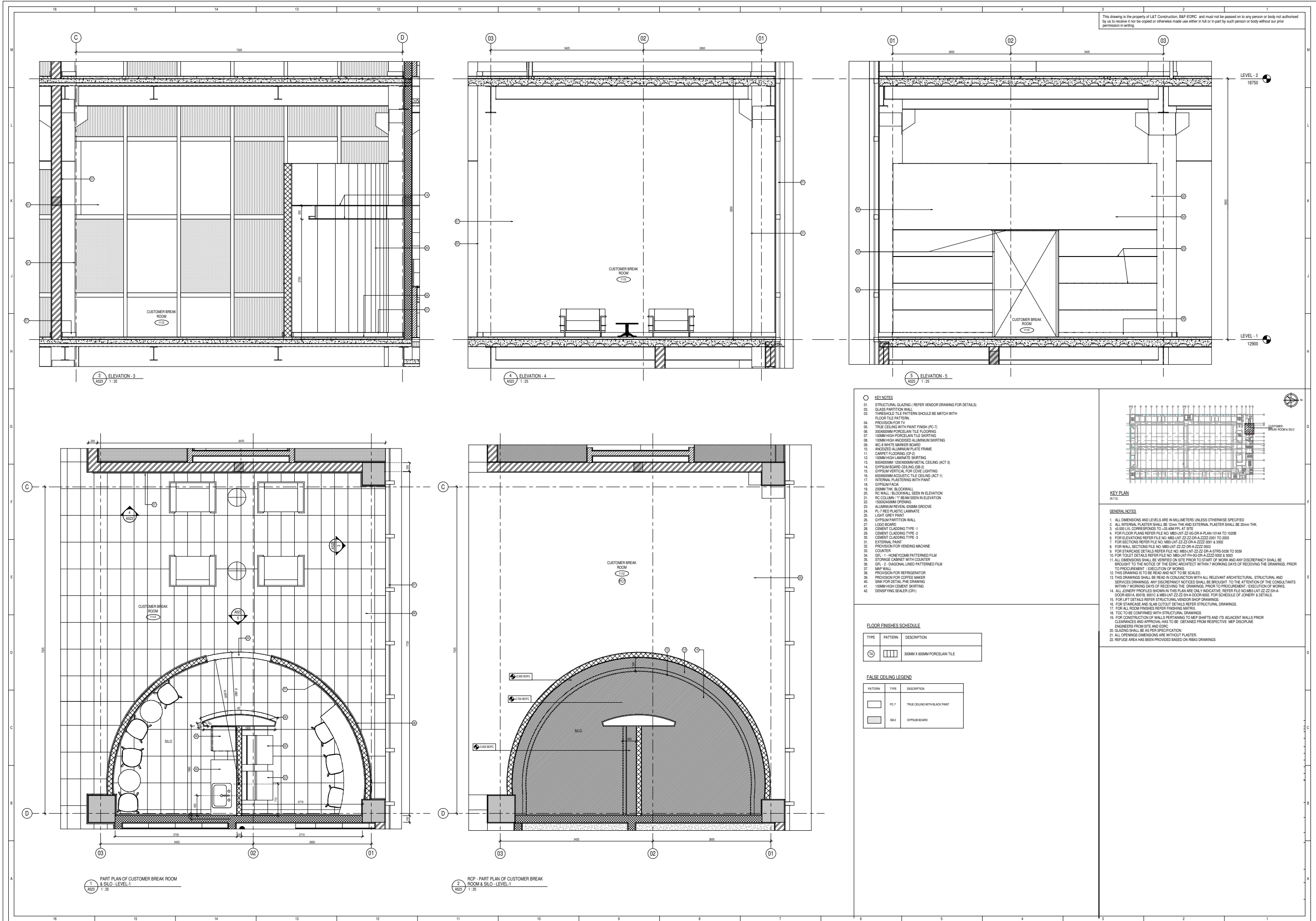
OPTION-2

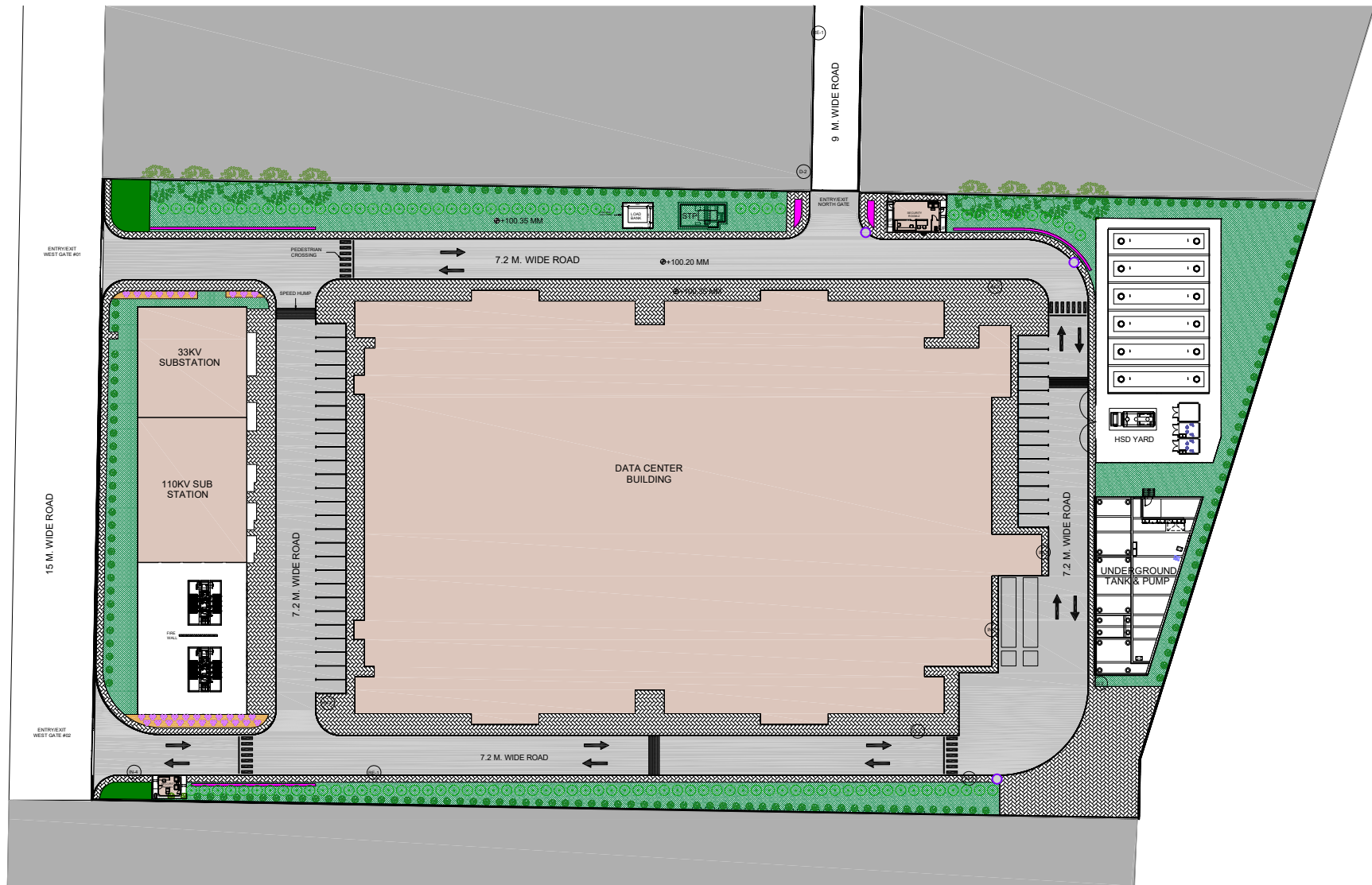


OPTION-3

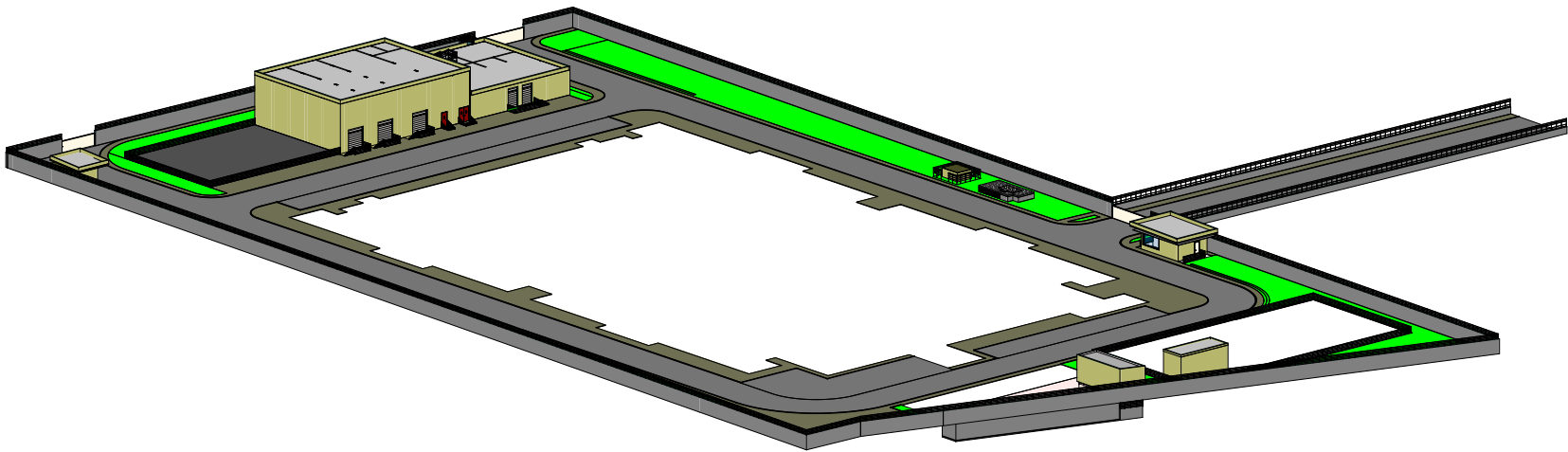
13-FIRST FLOOR-OFFICE AREA DATA CENTER,MUMBAI







SITE PLAN

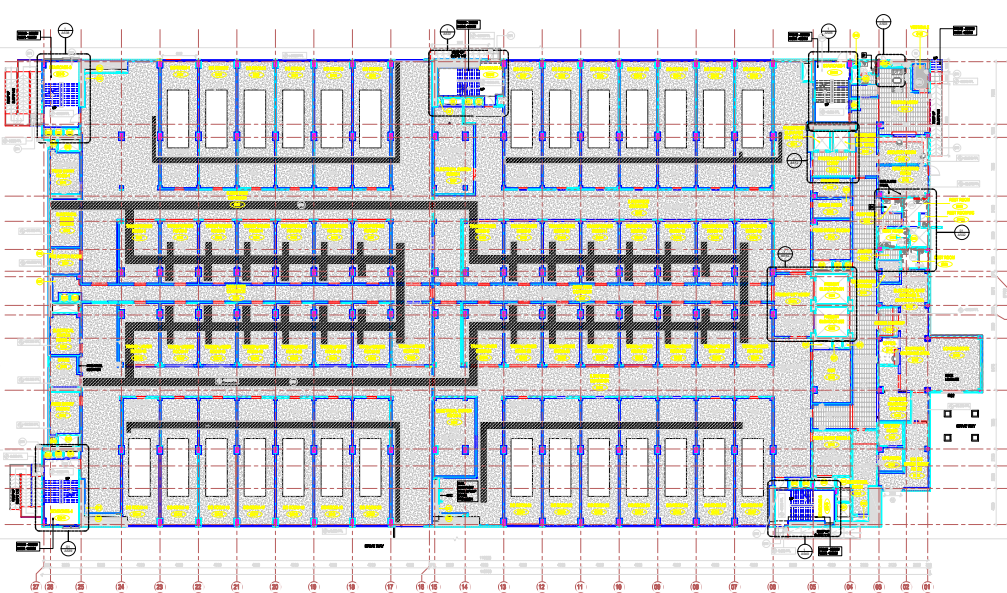


SITE TOP VIEW

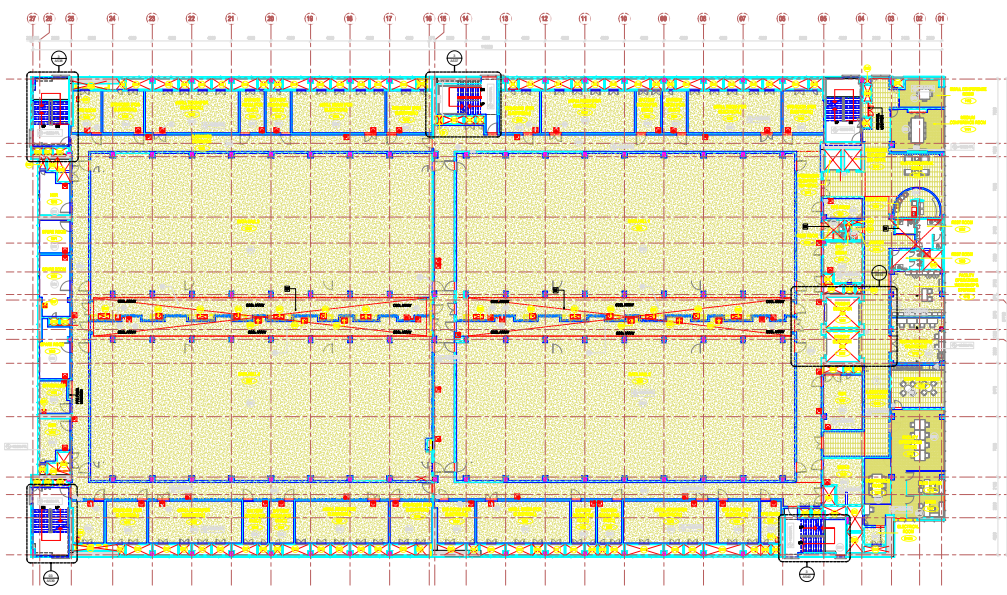
EQUINIX CHENNAI			
SNO	DESCRIPTION	UNIT	SITE INFRA
1	Pathway, DC Building, Security cabin and Substation.	Sqm	3380
2	Cement concrete paver	Sqm	1000
3	Kerb Stone	Rmt	1900
4	Road Painting	Sqm	2568
5	Speed Breaker	sqm	43
6	ROAD SAFETY CONVEX MIRROR	Nos	3
7	Car stopper	Nos	41
8	Ceilings		
9	Gypsum Ceiling	Sqm	200
10	Vitrified Flooring	Sqm	63
11	Wall Painting	Sqm	1470
12	Ceiling Painting	Sqm	520
13	Ashford Densifier sealer	Sqm	245
14	Ledge top granite	rmt	2
15	Floor mat	sqm	6
16	Planter box	Nos	4
17	DB Shutter	Nos	6
18	GALVALUME SHEET ROOF COVERING	Sqm	20
19	Exterior grade Acrylic emulsion paint	Sqm	3870
20	Staircases - Densifying sealer		
21	Treads	Sqm	32
22	Risers	Sqm	19
23	Mid landing & landing	Sqm	47
24	SS skirting	Rmt	70
25	Flooring-75mm thick screed flooring	Sqm	308
26	Skirting - 100mm high	rmt	60
27	Vitrified Skirting	rmt	60
28	T3 - Porcelain tile -300x600mm	sqm	20
29	Fire Metal Doors		
30	D3.0-950x2400mm	Nos	1
31	D1.1-1000x2400mm	Nos	2
32	D1.0-750x2400 - sliding door	Nos	2
33	D2.0-750x2100	Nos	1
34	D4.4-1400X2400	Nos	1
35	FD-1800x2800	Nos	3
36	Window with necessary hardware accessories		
37	GL3-Bullet resistant window (1075x2038mm)	Nos	1
38	GL4-Bullet resistant window (1800x1729mm)	Nos	1
39	GL2-Bullet resistant window (1800x1960mm)	Nos	1
40	GL1-Bullet resistant window (3800x1960mm)	Nos	1
41	Plaster groove of 20mm wide and 12 mm deep	rmt	270
42	Lockable concealed Floor spring	Nos	0
43	LOCK RAIL WITH PUSH AND PULL ARRANGEMENT	Nos	2
44	1300 X 200 MM 5MM THICK FIRE RATED CLEAR GLASS	Nos	0
45	DOOR CLOSER	Nos	1
46	Panic Bar	Nos	
47	Patch Lock with Key	Nos	0
48	Lock rail with Push and Pull Arrangement	Nos	0

18-BOQ FOR SITE AND ANCILLARY BUILDINGS,
DATA CENTER,CHENNAI.

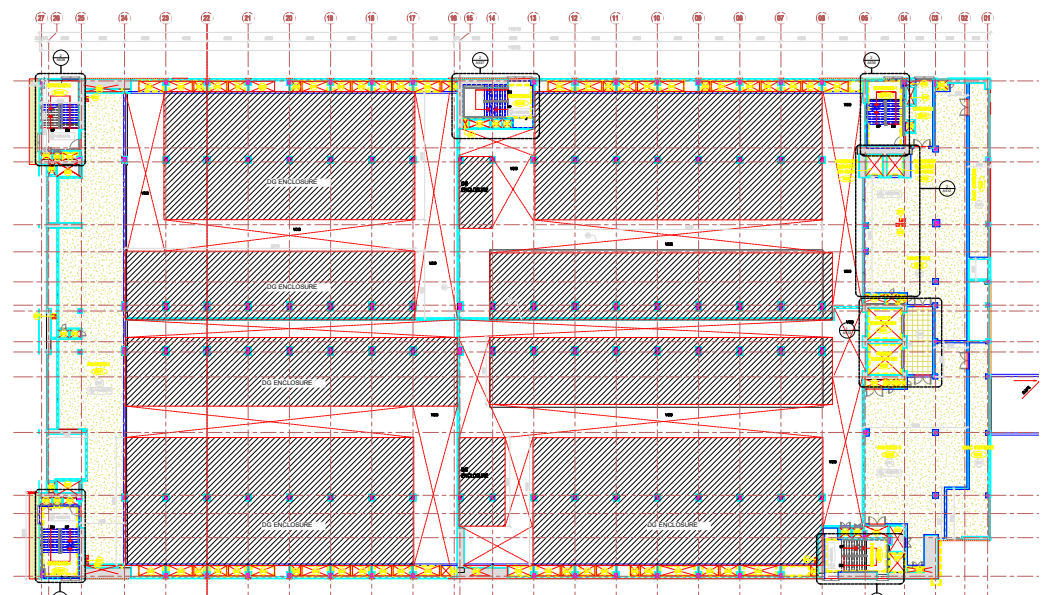
AREA STATEMENT - EQUINIX DC							
SITE AREA - 15722 SQM (3.98 Acres)							
DC BUILDING							
SL NO	DESCRIPTION	BUILDING 1 - PHASE 1 & 2		BUILDING 2 - PHASE 3 & 4		TOTAL	
		AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)
1	Ground Floor	2857	30752	3671	39514	6528	70267
2	Mezzanine Floor	2171	23368	2794	30074	4965	53443
3	First Floor	2802	30160	3586	38599	6388	68760
4	Second Floor	2802	30160	3586	38599	6388	68760
5	Third Floor	2802	30160	3586	38599	6388	68760
6	Fourth Floor	2802	30160	3586	38599	6388	68760
7	Fifth Floor	2802	30160	3586	38599	6388	68760
8	Terrace	399	4295	232	2502	631	6797
	SUB TOTAL	19437	209218	24627	265087	44064	474305
SL NO	DESCRIPTION	PHASE 1 & 2		PHASE 3 & 4		TOTAL	
		AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)
1	SUB STATION	130	1399	0	0	130	1399
2	PHE PUMP ROOM	399	4293	0	0	399	4295
3	HSD PUMP ROOM	24	258	0	0	24	258
4	STP & LOAD BANK	17	185	0	0	17	185
5	SECURITY CABIN 1	63	678	0	0	63	678
6	SECURITY CABIN 2	21	226	0	0	21	226
7	HSD YARD (NOT INCLUDED IN BUA)	368	3960	0	0	368	3961
	SUB TOTAL	654	7042	0	0	654	7042
	TOTAL BUILT UP AREA	20091	216260	24627	265087	44719	481347
Notes :							
1) Phase 1,2 3 and 4 Demarcated as per the received Client drawing received							
2.1) STP, Load Bank Area Considered as per Site Layout Shared By Client.							
2.2) HSD Yards not included in Total Built Up Area							
3) All Shafts are included in Built-up Area Calculation.							
4) Service rooms, Underground Water tanks, staircase and lift headrooms on Terrace area are included in BUA Calculation.							
5) Areas covered by stair-case rooms and lift head rooms aren't included in Parking Calculation.							



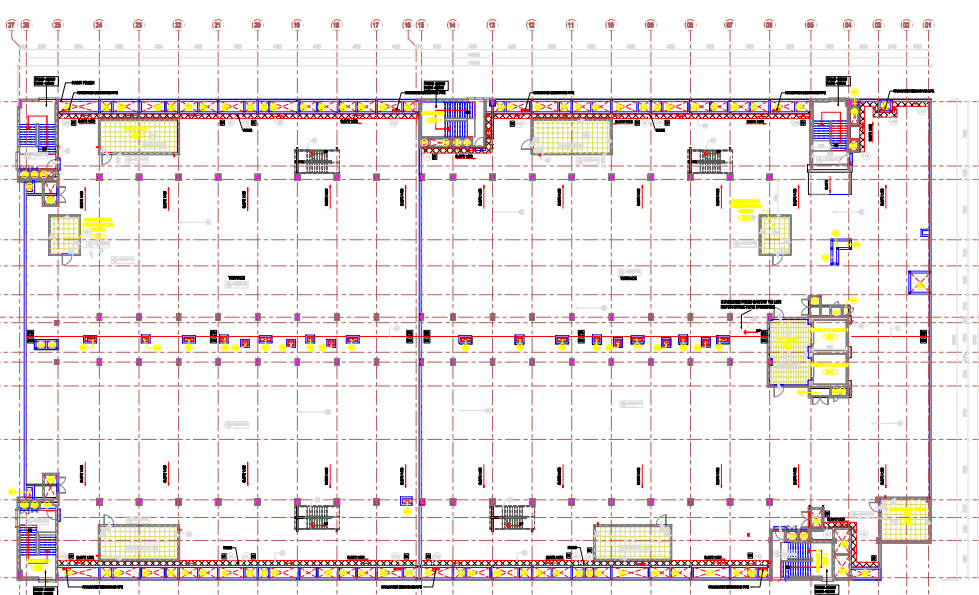
GROUND FLOOR PLAN



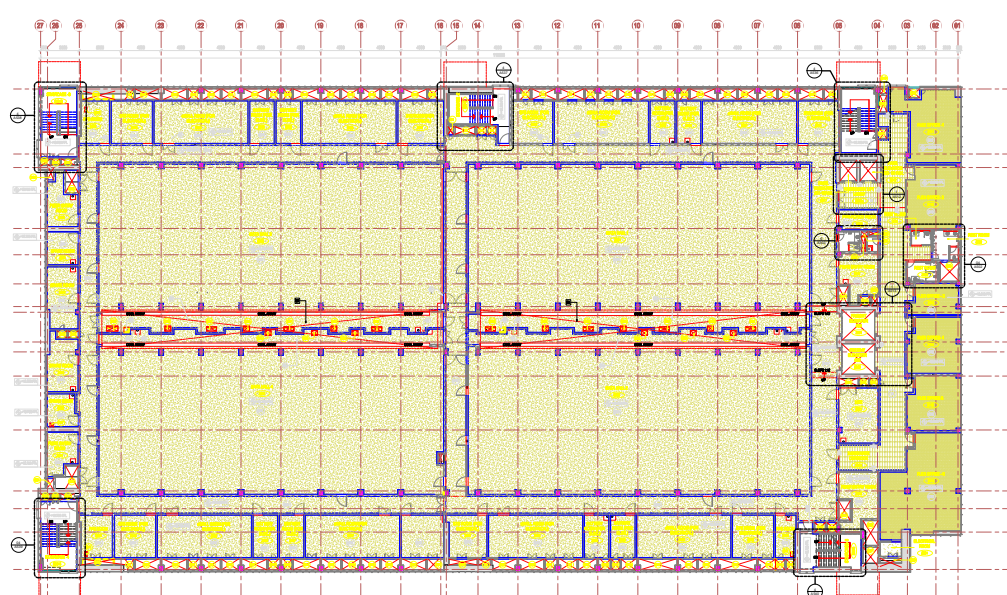
FIRST FLOOR PLAN



MEZANINE FLOOR PLAN

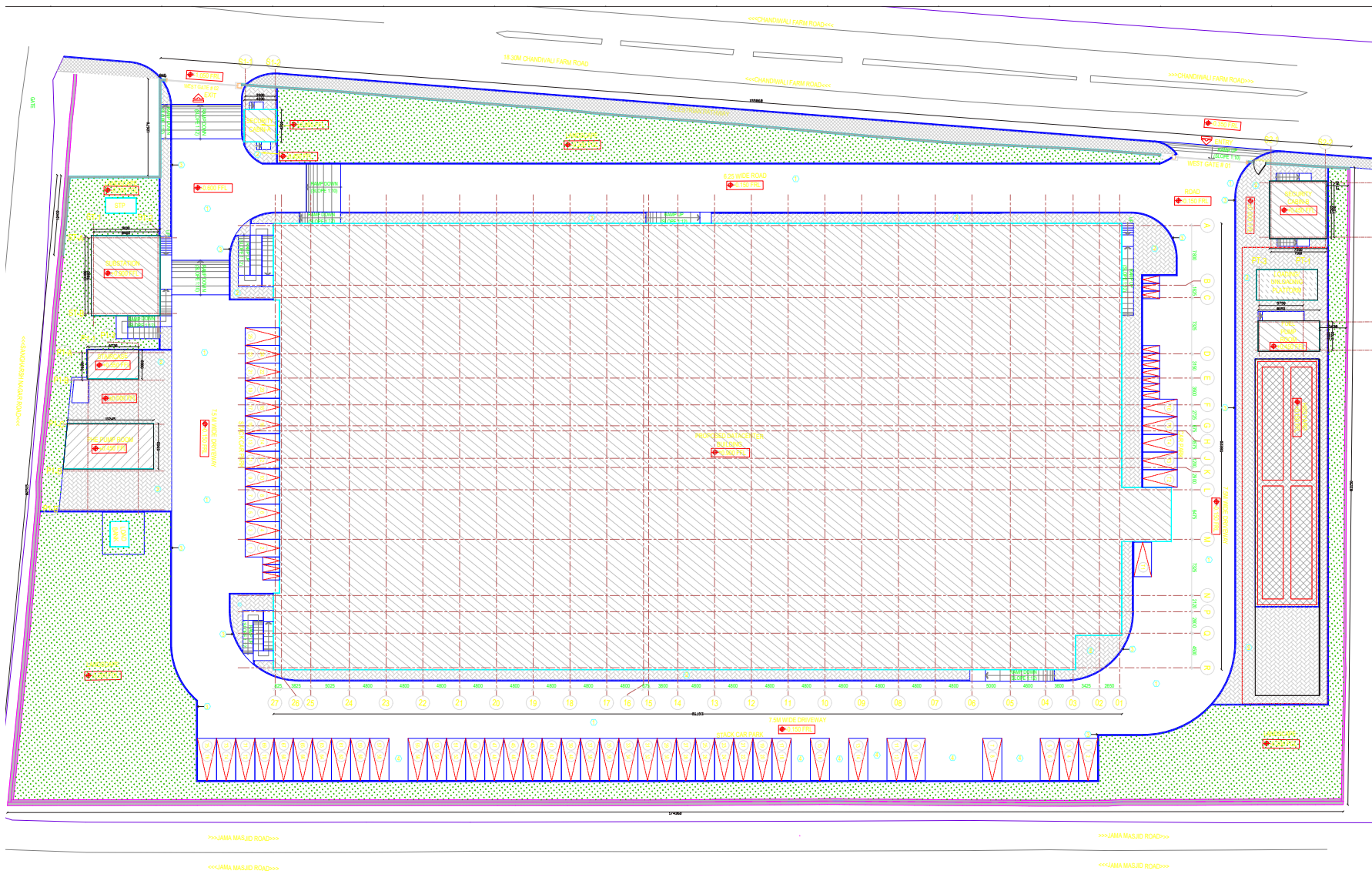


TERRACE PLAN

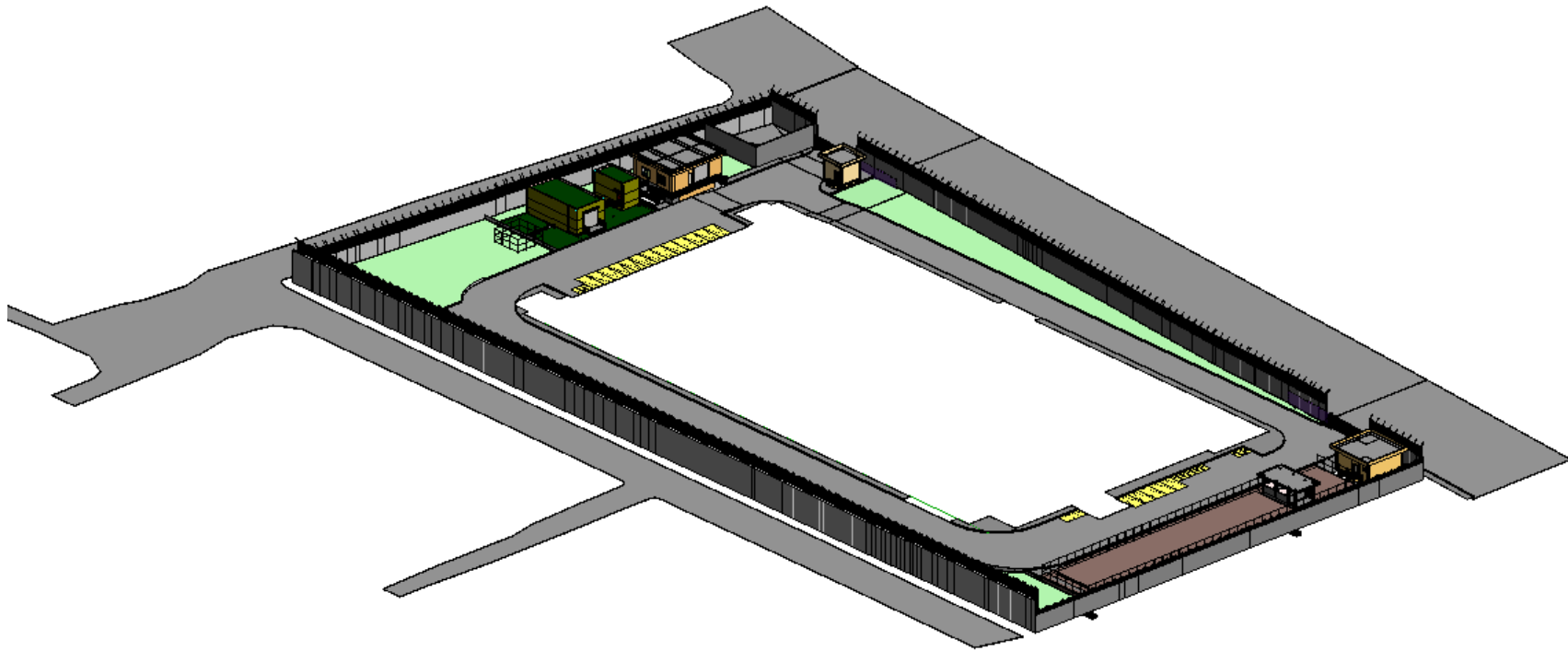


SECOND FLOOR PLAN

EQUINIX-MUMBAI			
SNO	DESCRIPTION	UNIT	SITE INFRA
1	200mm thk wall	cum	67.62
2	Internal Plaster-Cement Plaster	sqm	480
3	External Plaster- Waterproof Cement Plaster	sqm	477
4	150mm thk. Wall	cum	21
5	Ceiling - cement plaster	sqm	57.64
6	External Painting	sqm	3158
Flooring			
7	SCREED	sqm	96.2
8	Ramp -polished concrete finish	sqm	10.93
9	CR2 - Polished Concrete	sqm	192.33
10	CR3 - Epoxy Flooring (ESD)	sqm	84.92
11	VT4 - Porcelian Tile	sqm	64.75
Skirting			
12	Porcelain tile skirting	rmt	48.43
Stair - Tread			
13	Polished concrete finish -1500x300	nos	50
14	Polished concrete finish - 1200x300	nos	1
15	Polished concrete finish- 1600x300	nos	4
16	Polished concrete finish- 1000x300	nos	2
Stair - Risers			
17	Polished concrete finish - 1500x150	nos	55
18	Polished concrete finish - 1200x150	nos	2
19	Polished concrete finish - 1600x150	nos	5
20	Polished concrete finish - 1000x150	nos	4
Stair - Landing / Mid Landing			
21	Polished concrete finished	sqm	26.93
Internal Painting			
22	Lustre paint (for masonry & RC Wall)	sqm	1144
23	Stair - Lustre paint -Waist slab	sqm	57.64
External Painting			
24	Ext. Acrylic paint - Chiller beams	sqm	312.8
False Ceiling			
25	Enamel paint - Ceiling	sqm	64
26	Staircase MS-Railing	rmt	52.77
Doors			
27	FD-2100x2400	nos	2
28	FD-1500x2100	nos	1
29	FD-1500x3200	nos	1
30	SD-1500x2400 -sliding door	nos	2
31	SD-750x2400 - sliding door	nos	1
32	FD-1000x2100	nos	1
33	FD-1200x2100	nos	0
34	SD-750x2100	nos	2
Rolling shutter			
35	3000x3200 - motorized	nos	2
Telescopic sliding gate			
36	9000x2400	nos	2
37	Wicket gate - 1.5m x 3.4m	nos	1
Window			
38	2000x1500	nos	4
39	Bullet resistant window -1800x2000	nos	2
40	Bullet resistant window -2600x2000	nos	1
41	Bullet resistant window -1100x2000	nos	1
Fencing - 2.4m ht.			
42	HSD	rmt	140.6
43	Substation	rmt	33.73
44	Barbed wire Fence above Compound wall	rmt	495.31
45	MS wall mounted handrail	rmt	5.01



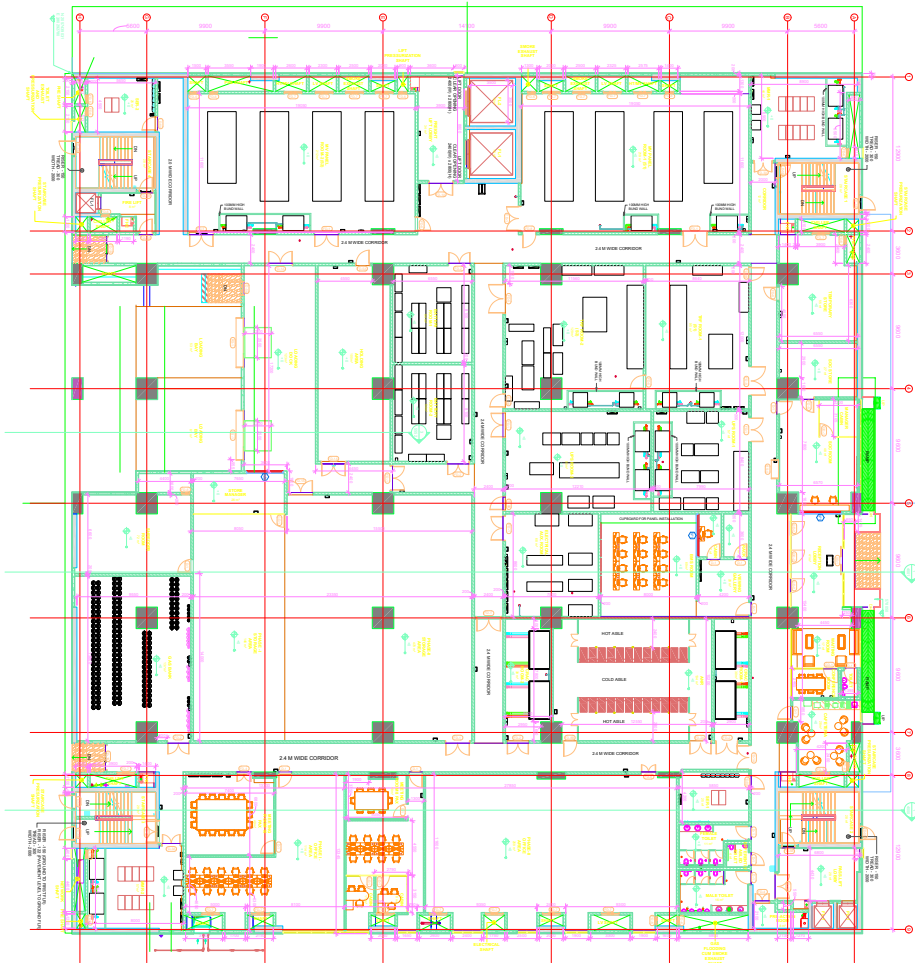
SITE PLAN



SITE TOP VIEW

20-BOQ FOR SITE AND ANCILLARY BUILDINGS,
DATA CENTER,MUMBAI.

AREA CALCULATION-STT PUNE				
S.NO	ROOM	TOTAL BUILT UP AREA	AREA(SQM)	PERCENTAGE
1	MMR2	4885	57	1.166837257
2	GAS ROMM	4885	137	2.804503582
3	SHREDDER ROOM	4885	72	1.473899693
4	SER 2	4885	25	0.5117707267
5	MV PANNEL ROOM 2	4885	212	4.339815763
6	MV PANNEL ROOM 1	4885	219	4.483111566
7	BATTERY ROOM 1	4885	54	1.10542477
8	BATTERY ROOM 2	4885	54	1.10542477
9	MMR1	4885	44	0.900716479
10	SER 1	4885	25	0.5117707267
11	TRF ROOM 1	4885	95	1.944728762
12	TRF ROOM 2	4885	129	2.64073695
13	UPS ROOM-1	4885	57	1.166837257
14	UPS ROOM-2	4885	93	1.903787103
15	BMS ROOM	4885	69	1.412487206
16	ELECTRICAL AUX ROOM	4885	68	1.392016377
17	CRACK ROOM-1	4885	30	0.6141248721
18	CRACK ROOM-2	4885	39	0.7983623337
	TOTAL		1479	30.27635619



GROUND FLOOR PLAN

AREA CALCULATION-STT PUNE				
S.NO	ROOM	TOTAL BUILT UP AREA	AREA(SQM)	PERCENTAGE
1	HOLDING AREA	4885	100	2.047082907
2	LOADING DOCK	4885	123	2.517911975
3	LOADING BAY	4885	53	1.084953941
4	LOADING BAY	4885	61	1.248720573
5	TEMPORARY STORE	4885	55	1.125895599
6	SOC STORE	4885	27	0.5527123849
7	SOC ROOM	4885	48	0.9825997953
8	RECEPTION LOBBY	4885	41	0.8393039918
9	WAITING ROOM	4885	17	0.3480040942
10	CAFETAREA	4885	28	0.5731832139
11	PRE ACTION ROOM	4885	8	0.1637666325
12	MALE TOILET	4885	16	0.3275332651
13	FEMALE TOILET	4885	11	0.2251791198
14	DIFFERENTLY ABLED TOILT	4885	4	0.08188331627
15	VIEWING GALLERY	4885	20	0.4094165814
16	CABIN	4885	7	0.1432958035
17	RACK	4885	8	0.1637666325
18	PHASE 2 OFFICE AREA	4885	259	5.301944729
19	MEETING ROOM 8 PAX	4885	18	0.3684749232
20	CABIN	4885	8	0.1637666325
21	CABIN	4885	11	0.2251791198
22	PHASE 1 OFFICE AREA	4885	114	2.333674514
23	MEETING ROOM 16 PAX	4885	49	1.003070624
24	PHASE-1 STORAGE AREA1	4885	146	2.988741044
25	PHASE-1 STORAGE AREA 2	4885	470	9.621289662
26	ANR	4885	134	2.743091095
27	FIRE LIFT	4766	11	0.2308015107
28	FL-1	4766	3.1	0.06504406211
29	CHILLER SHAFT	4766	2.8	0.05874947545
30	SHAFT	4766	1.2	0.02517834662
31	PHE SHAFT	4766	2	0.04196391104
32	STAIRCASE-4	4766	28	0.5874947545
33	PHE SHAFT	4766	2	0.04196391104
34	STAIRCASE-PRESURIZATION SH	4766	1	0.02098195552
35	CHILLER SHAFT	4766	4.1	0.08602601762
36	FHC	4766	2	0.04196391104
37	STAIRCASE-3	4766	28	0.5874947545
38	NETWORK SHAFT	4766	6	0.1258917331
39	PHE SHAFT	4766	0.7	0.01468736886
40	SHAFT	4766	1.1	0.02308015107
41	ELECTRICAL SHAFT	4766	3	0.06294586655
42	ELECTRICAL SHAFT	4766	2.8	0.05874947545

43	SHAFT	4766	3.1	0.06504406211
44	SHAFT	4766	1.6	0.03357112883
45	SHAFT	4766	2	0.04196391104
46	SHAFT	4766	4.3	0.09022240873
47	ELECTRICAL SHAFT	4766	4.3	0.09022240873
48	SHAFT	4766	3.1	0.06504406211
49	SHAFT	4766	1.4	0.02937473773
50	SMOKE EXHAUST	4766	3	0.06294586655
51	LV SHAFT	4766	4.1	0.08602601762
52	HT/MV SHAFT	4766	2.5	0.0524548888
53	GAS FLOODING CUM SMOKE E	4766	5.4	0.1133025598
54	LIFT LOBBY PRES SHAFT	4766	0.4	0.008392782207
55	PASS.LIFT LOBBY	4766	29	0.60847671
56	PL-1	4766	4	0.08392782207
57	PL-2	4766	4	0.08392782207
58	STAIRCASE-2	4766	28	0.5874947545
59	PHE SHAFT	4766	2	0.04196391104
60	STAIRCASE-PRESURIZATION SH	4766	1	0.02098195552
61	CHILLER SHAFT	4766	4	0.08392782207
62	FHC	4766	2	0.04196391104
63	STAIRCASE-1	4766	28	0.5874947545
64	STAIRCASE-PRESURIZATION SH	4766	1	0.02098195552
65	PHE SHAFT	4766	2	0.04196391104
66	CHILLER SHAFT	4766	4.1	0.08602601762
67	FHC	4766	2	0.04196391104
68	SHAFT	4766	5	0.1049097776
69	SHAFT	4766	1.1	0.02308015107
70	HT/MV SHAFT	4766	2.9	0.060847671
71	LV SHAFT	4766	2.9	0.060847671
72	SMOKE EXHAUST	4766	3.1	0.06504406211
73	SHAFT	4766	1.7	0.03566932438
74	SMOKE EXHAUST	4766	1.6	0.03357112883
75	FRIEGHT LIFT LOBBY	4766	34	0.7133864876
76	FL-1	4766	16	0.3357112883
77	FL-2	4766	16	0.3357112883
78	LIFT LOBBY PRES SHAFT	4766	1	0.02098195552
79	SHAFT	4766	1.4	0.02937473773
80	SMOKE EXHAUST	4766	3	0.06294586655
81	LV SHAFT	4766	3.2	0.06714225766
82	HT/MV SHAFT	4766	3	0.06294586655
83	PHE SHAFT	4766	6.1	0.1279899287
84	SHAFT	4766	1.8	0.03776751993
85	TOILETS	4766	8	0.1678556441
86	HANDI TOIETS	4766	3.2	0.06714225766

87	PHE SHAFT	4766	1.8	0.03776751993
88	TOILET EXHAUST PRES SHAFT	4766	2	0.04196391104
89	CORRIDOR	4766	592	12.42131767
	TOTAL		2791.9	57.64109345

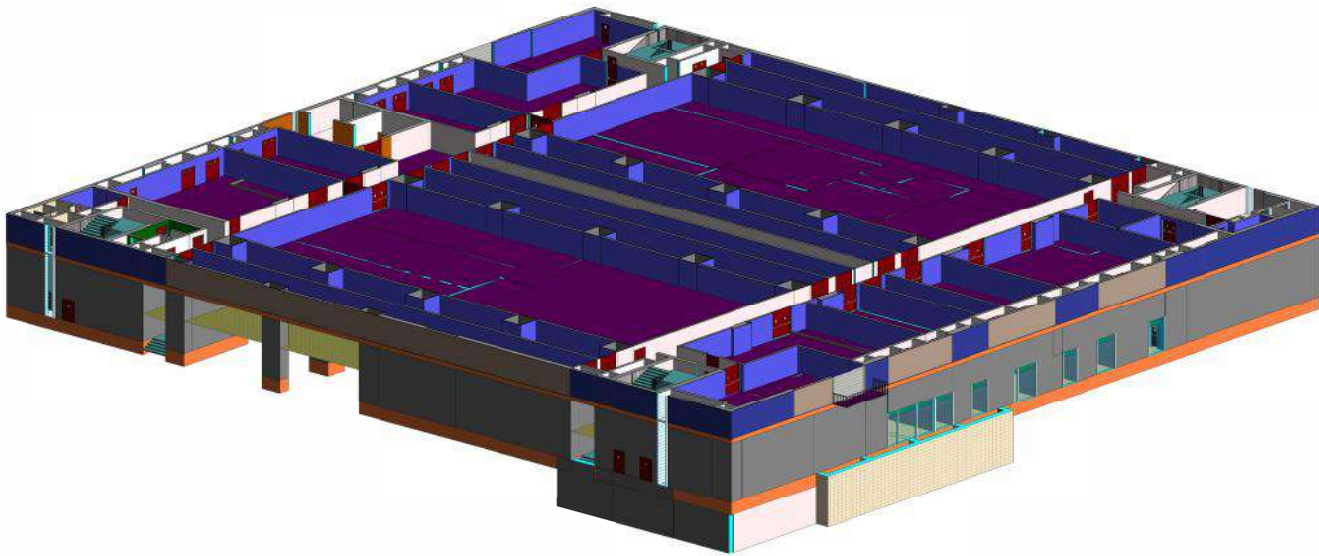
AREA CALCULATION-STT PUNE				
S.NO	ROOM	TOTAL BUILT UP AREA	AREA(SQM)	PERCENTAGE
1	TRANSFOMER ROOM 1-S1	4766	94	1.972303819
2	PDU GALLERY 1B	4766	93	1.951321863
3	ELECTRICAL PANEL ROOM 1A-S1	4766	107	2.24506924
4	BATTERY ROOM 1A-S1	4766	66	1.384809064
5	BATTERY ROOM 2A-S1	4766	70	1.468736886
6	ELECTRICAL ROOM 2A-S1	4766	140	2.937473773
7	SER-2	4766	13	0.2727654217
8	PDU GALLERY-2A	4766	93	1.951321863
9	TRANSFOMER ROOM 2-S2	4766	94	1.972303819
10	ELECTRICAL PANEL ROOM 2B-S2	4766	117	2.454888796
11	BATTERY ROOM 2B-S1	4766	69	1.447754931
12	BATTERY ROOM 1B-S2	4766	70	1.468736886
13	ELECTRICAL PANEL ROOM 1B-S2	4766	137	2.874527906
14	SER-1	4766	26	0.5455308435
15	PRE-ACTION ROOM	4766	25	0.524548888
16	PDU GALLERY 1A	4766	93	1.951321863
17	PDU GALLERY 2B	4766	93	1.951321863
	TOTAL		1400	29.37473773
AREA CALCULATION-STT PUNE				
S.NO	ROOM	TOTAL BUILT UP AREA	AREA(SQM)	PERCENTAGE
1	MECHANICAL GALLERY 1B	4766	137	2.874527906
2	MECHANICAL GALLERY 2B	4766	137	2.874527906
3	DATA HALL 1	4766	718	15.06504406
4	DATA HALL 2	4766	718	15.06504406
5	MECHANICAL GALLERY 1A	4766	137	2.874527906
6	MECHANICAL GALLERY 2A	4766	137	2.874527906
	TOTAL		1984	41.62819975

AREA CALCULATION-STT PUNE				
S.NO	ROOM	TOTAL BUILT UP AREA	AREA(SQM)	PERCENTAGE
1	FIRE LIFT	4766	11	0.2308015107
2	FL-1	4766	3.3	0.06924045321
3	CHILLER SHAFT	4766	2.8	0.05874947545
4	SHAFT	4766	1.2	0.02517834662
5	PHE SHAFT	4766	2	0.04196391104
6	STAIRCASE-4	4766	28	0.5874947545
7	PHE SHAFT	4766	2	0.04196391104
8	STAIRCASE-PRESURIZATION SHAFT	4766	1	0.02098195552
9	CHILLER SHAFT	4766	4.1	0.08602601762
10	FHC	4766	2	0.04196391104
11	STAIRCASE-3	4766	28	0.5874947545
12	NETWORK SHAFT	4766	6	0.1258917331
13	PHE SHAFT	4766	0.7	0.01468736886
14	SHAFT	4766	1.1	0.02308015107
15	ELECTRICAL SHAFT	4766	3	0.06294586655
16	ELECTRICAL SHAFT	4766	2.8	0.05874947545
17	SHAFT	4766	3.1	0.06504406211
18	SHAFT	4766	1.6	0.03357112883
19	SHAFT	4766	2	0.04196391104
20	SHAFT	4766	4.3	0.09022240873
21	ELECTRICAL SHAFT	4766	4.3	0.09022240873
22	SHAFT	4766	3.1	0.06504406211
23	SHAFT	4766	1.4	0.02937473773
24	SMOKE EXHAUST	4766	3	0.06294586655
25	LV SHAFT	4766	4.1	0.08602601762
26	HT/MV SHAFT	4766	2.5	0.0524548888
27	GAS FLOODING CUM SMOKE EXHAUST SHAFT	4766	5.4	0.1133025598
28	LIFT LOBBY PRES SHAFT	4766	0.4	0.008392782207
29	PASS.LIFT LOBBY	4766	29	0.60847671
30	PL-1	4766	4	0.08392782207
31	PL-2	4766	4	0.08392782207
32	STAIRCASE-2	4766	28	0.5874947545
33	PHE SHAFT	4766	2	0.04196391104
34	STAIRCASE-PRESURIZATION SHAFT	4766	1	0.02098195552
35	CHILLER SHAFT	4766	4	0.08392782207
36	FHC	4766	2	0.04196391104
37	STAIRCASE-1	4766	28	0.5874947545
38	STAIRCASE-PRESURIZATION SHAFT	4766	1	0.02098195552
39	PHE SHAFT	4766	2	0.04196391104
40	CHILLER SHAFT	4766	4.1	0.08602601762

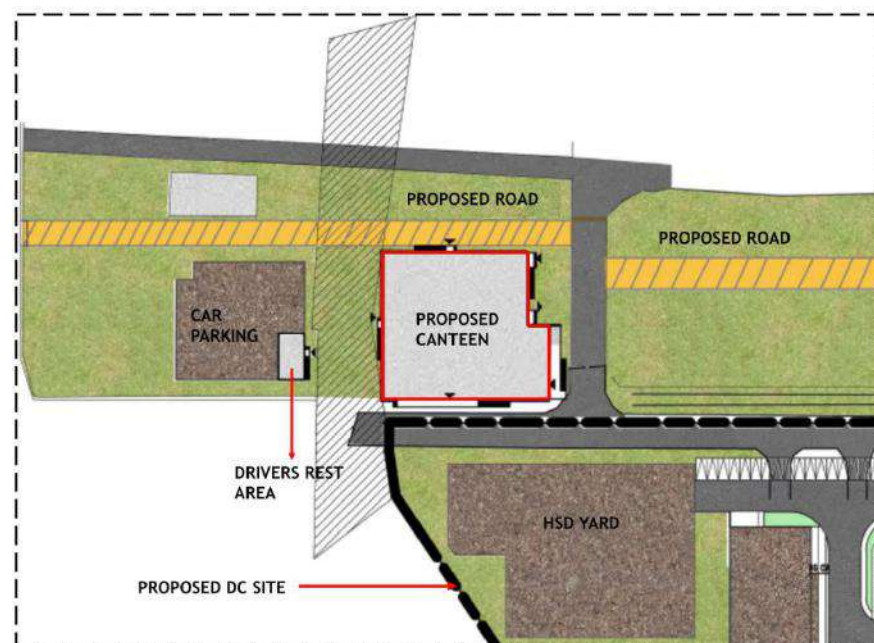
41	FHC	4766	2	0.04196391104
42	SHAFT	4766	5	0.1049097776
43	SHAFT	4766	1.1	0.02308015107
44	HT/MV SHAFT	4766	2.9	0.060847671
45	LV SHAFT	4766	2.9	0.060847671
46	SMOKE EXHAUST	4766	3.1	0.06504406211
47	SHAFT	4766	1.7	0.03566932438
48	SMOKE EXHAUST	4766	1.6	0.03357112883
49	FRIEGHT LIFT LOBBY	4766	34	0.7133864876
50	FL-1	4766	16	0.3357112883
51	FL-2	4766	16	0.3357112883
52	LIFT LOBBY PRES SHAFT	4766	1	0.02098195552
53	SHAFT	4766	1.4	0.02937473773
54	SMOKE EXHAUST	4766	3	0.06294586655
55	LV SHAFT	4766	3.2	0.06714225766
56	HT/MV SHAFT	4766	3	0.06294586655
57	PHE SHAFT	4766	6.1	0.1279899287
58	SHAFT	4766	1.8	0.03776751993
59	TOILETS	4766	11	0.2308015107
60	HANDI TOIETS	4766	3.2	0.06714225766
61	PHE SHAFT	4766	1.8	0.03776751993
62	TOILET EXHAUST PRES SHAFT	4766	2	0.04196391104
63	FIRE PANEL ROOM	4766	8	0.1678556441
64	STORE/UTILITY	4766	31	0.6504406211
65	CORRIDOR	4766	406	8.51867394
66	ROOM	4766	74	1.552664708
	TOTAL		886.1	18.59211078



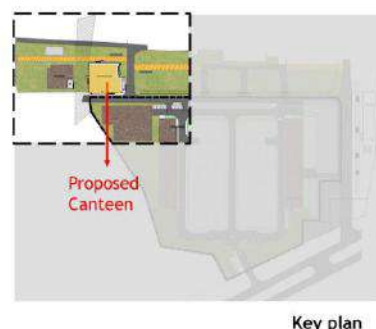
FIRST FLOOR PLAN



Kachi-DC Canteen



Canteen Site Plan

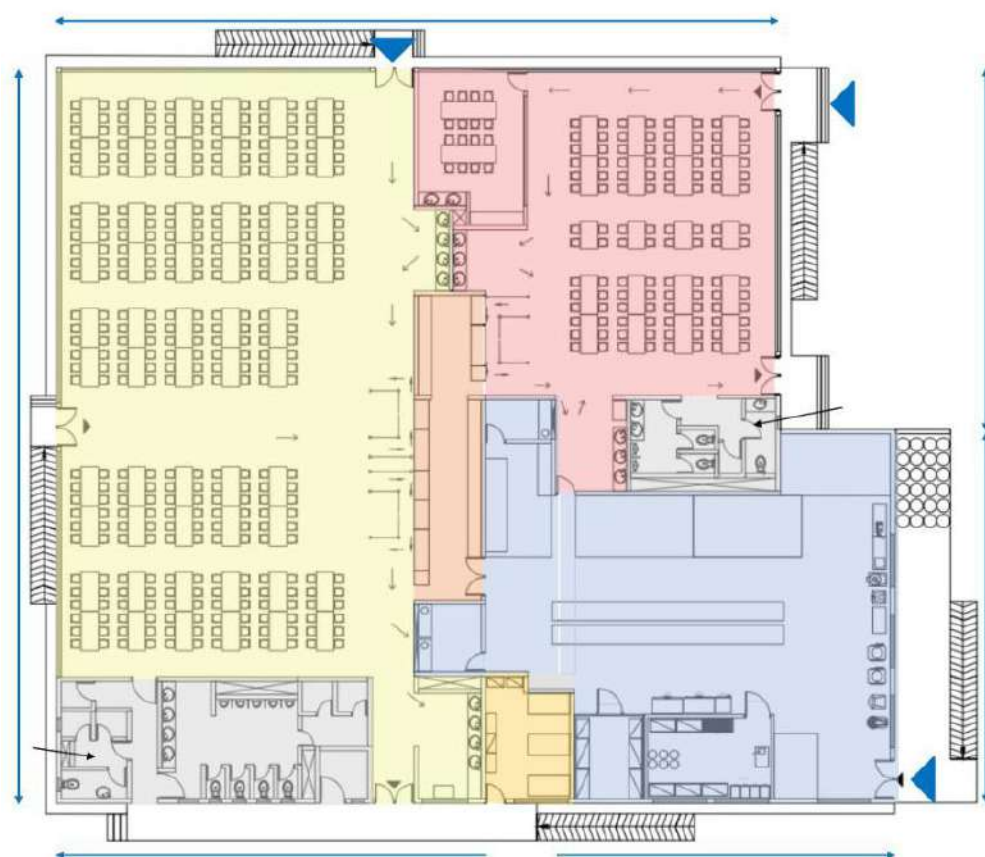


Introduction

Relocation and upgradation of existing canteen facility as per the new requirements . The canteen is expected to serve 128 staff people and 336 workmen in two slots with staggered timing each with separated dining area.

Requirments

- Canteen Area : 1200 Sqm (excluding platform of size 33 x 2.5 meters for gas storage and material entry).
- Facilities required as per client are as following (as per email dated 20.09.2022).
Cooking area, Steamer area, Boiler area, Grinder area, Cooking preparation area, Provisions storage area, Vegetables and fruits storage area with cold storage arrangement, Dish wash area, Hot wash area, Canteen workmen stay area.
- Driver rest area of size 5.95 X 10. 52m
- Washroom arrangement with bath area in shall be provided with separate entry for staff and workmen.
- Toilets are to be accessible from both outside and inside of the building



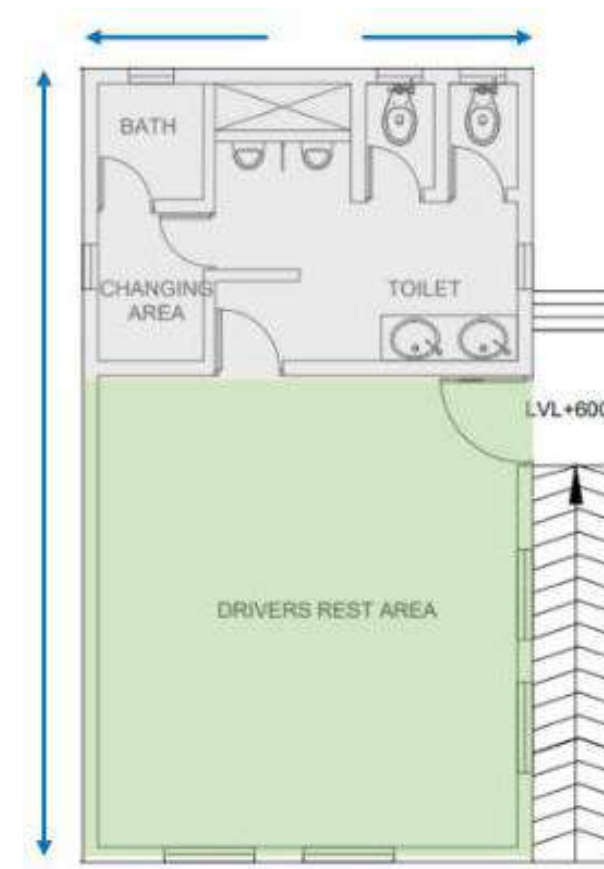
Floor Plan - Canteen

Legend



CANTEEN LOCATION AND SURROUNDINGS

- New access road has been proposed shown in yellow color.
- New proposed canteen has roads on three sides with separate entry for workmen and staff people.



Floor Plan - Drivers Rest Room







Staffs Cafe-1



Board Room-1



Staffs Cafe-2



Board Room-2



Board Room-3



Toilet-2



Toilet-1



Toilet-3

