

Faculty of Management Building

Canteen



Otta

Low Energy Cooling Test Bed (existing)

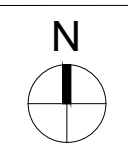
Proposed IAQ and Balanced Ambient Calorimeter Chamber

Existing Tree trunk

Legends for Proposed civil work

-  New construction (proposed extension)
-  Retrofitting (in existing lab)

(all the dimensions are in mm)

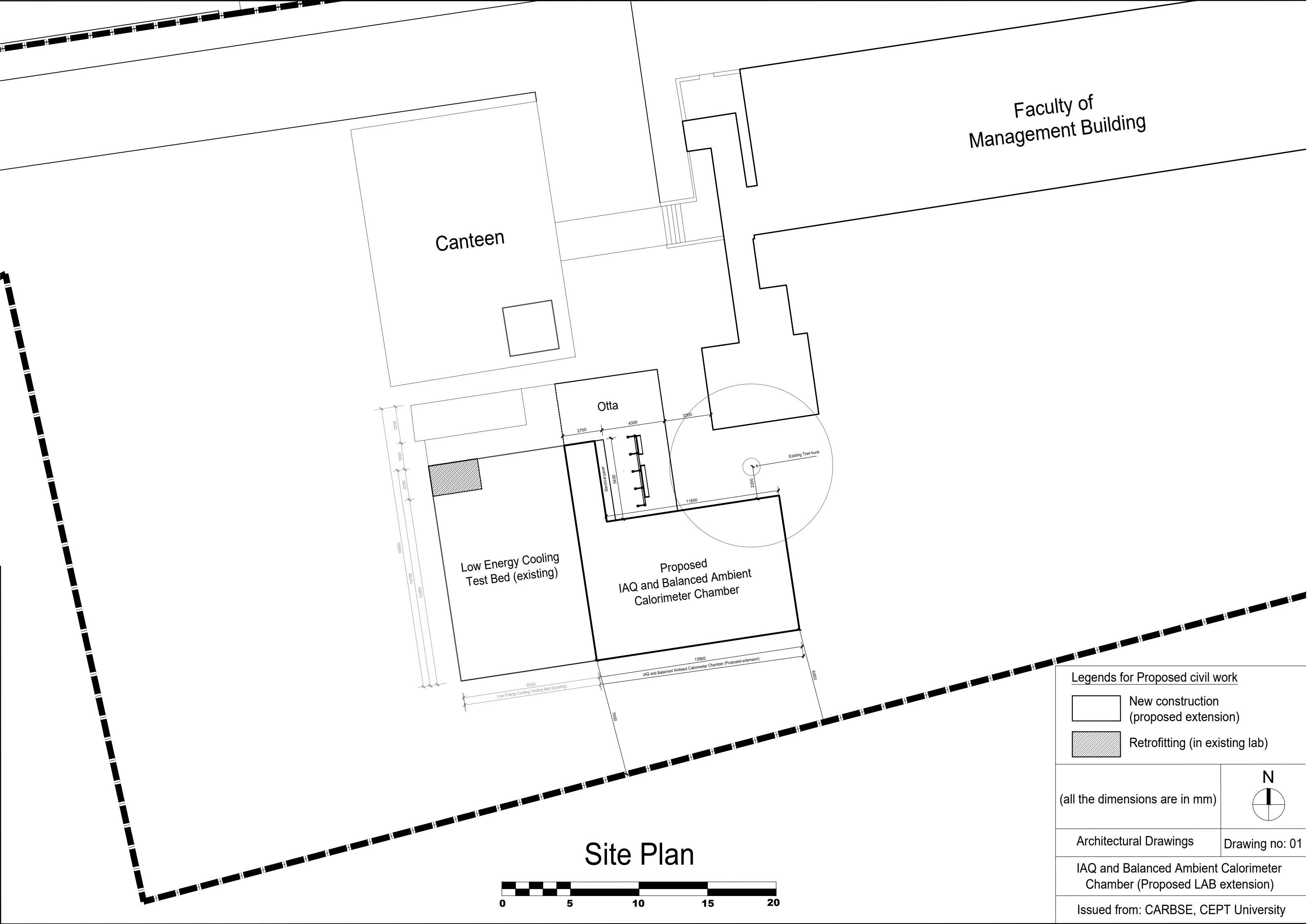


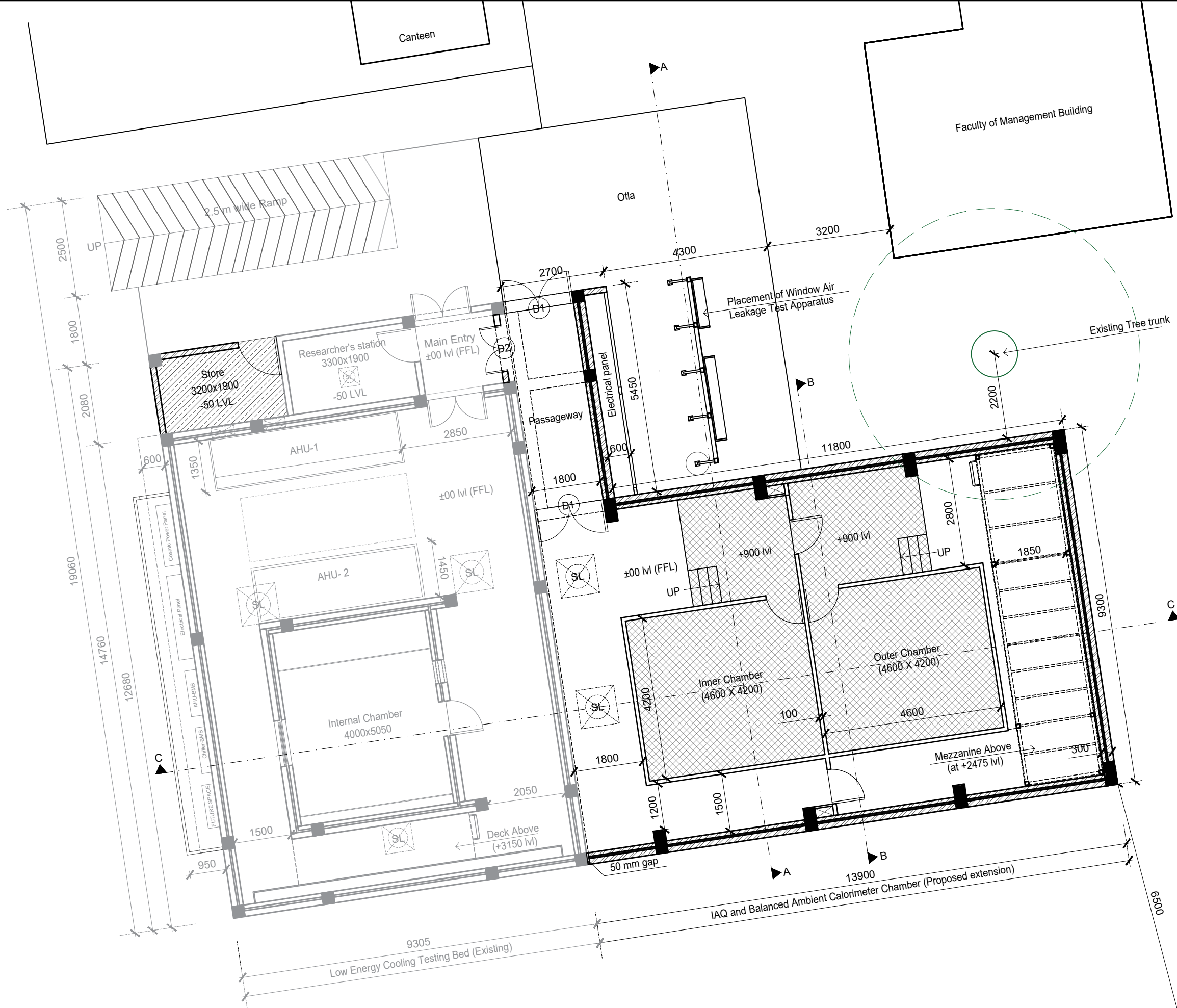
Architectural Drawings Drawing no: 01

IAQ and Balanced Ambient Calorimeter Chamber (Proposed LAB extension)

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Site Plan





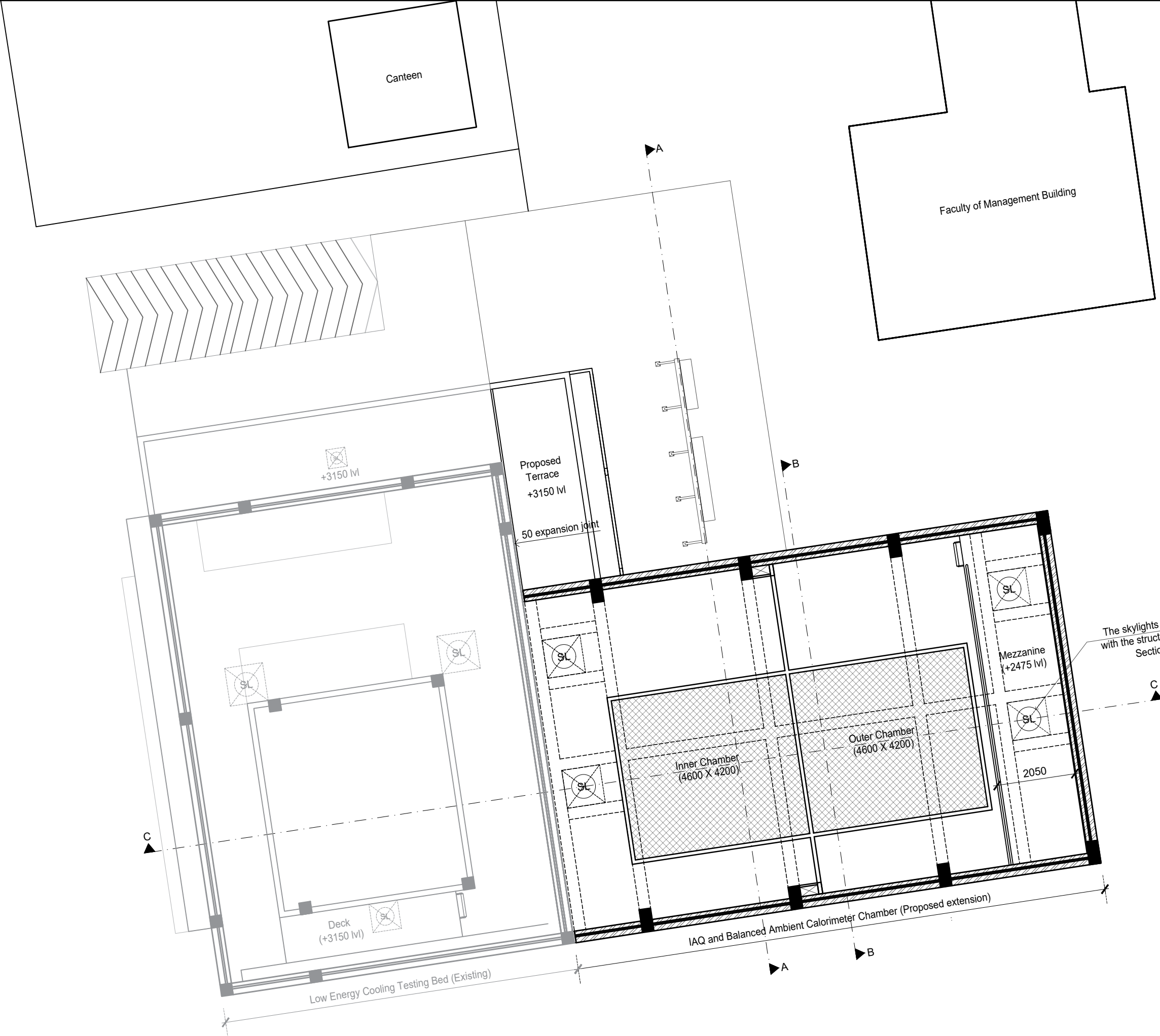
Schedule for Door				
mkd.	width	height	nos.	Description
D1	1800	2400	2	Double leaf insulated door (hinged) with vision panel
D2	1200	2400	1	insulated door (hinged) with vision panel

- Legends for Proposed layout
- Retrofitting/modification
 - New construction
 - Fabrication Part (not included)

Scale 1: 100 (in A3)
 (all the dimensions are in mm)

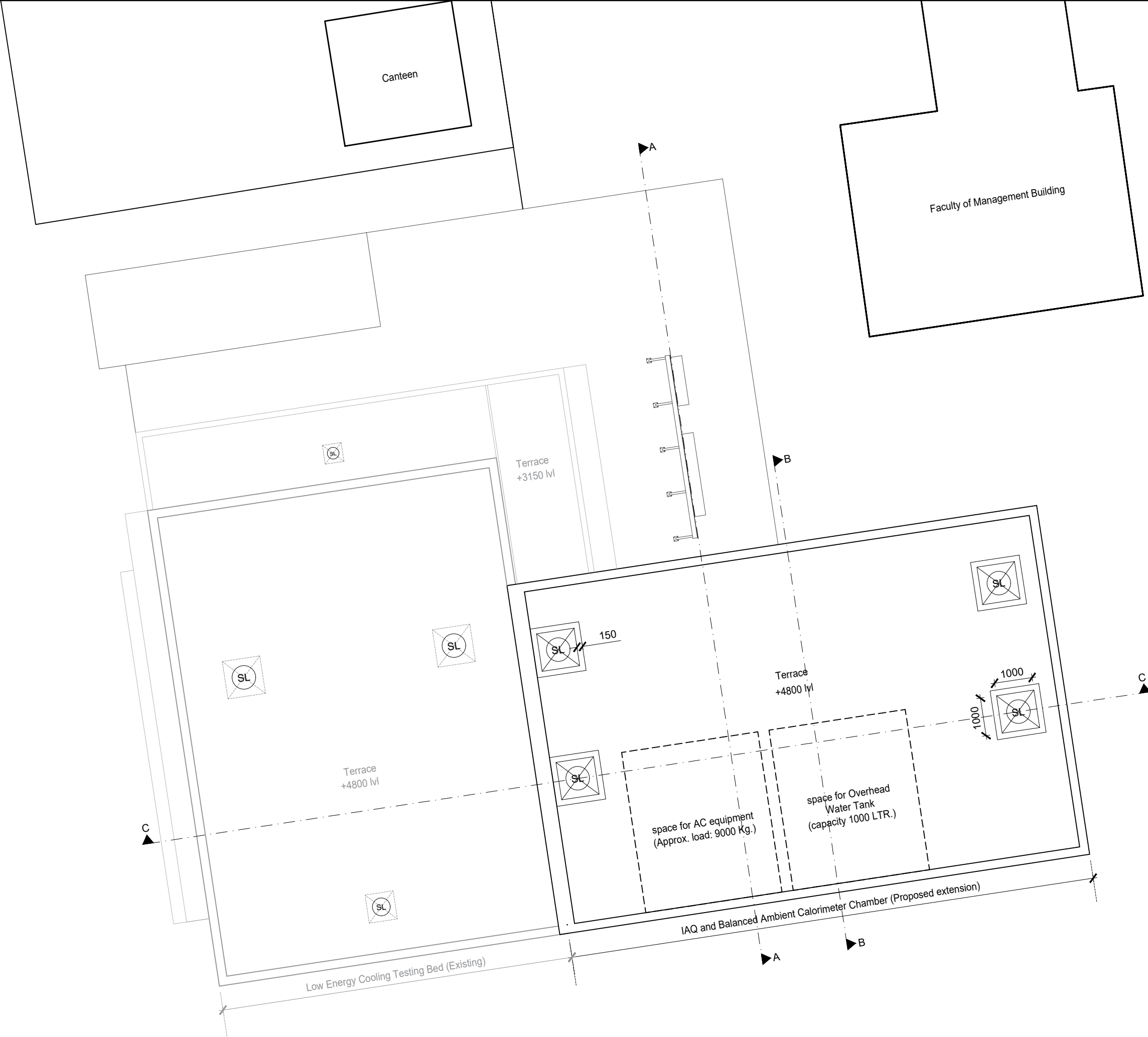
N

Lower Floor Plan



Upper Floor Plan

Legends for Proposed layout	
	Retrofitting/modification
	New construction
	Fabrication Part
Scale 1: 100 (in A3) (all the dimensions are in mm)	N
Architectural Drawings	Drawing no: 03
IAQ and Balanced Ambient Calorimeter Chamber (Proposed LAB extension)	
Issued from: CARBSE, CEPT University	



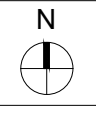
Terrace Plan

Schedule for skylights			Double glazed with 6 mm thick toughened glass with PVB layer in between (as/ existing lab)
mkd.	size (LxW)	nos.	
SL	1000x1000	4	

Legends for Proposed layout

	Retrofitting/modification
	New construction
	Fabrication Part

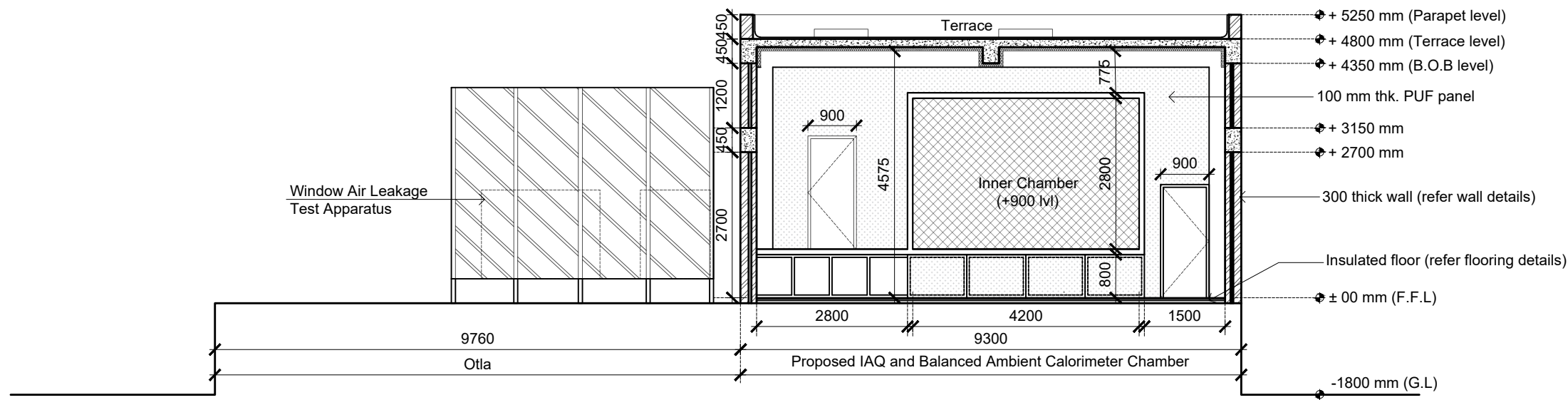
Scale 1: 100 (in A3)
(all the dimensions are in mm)



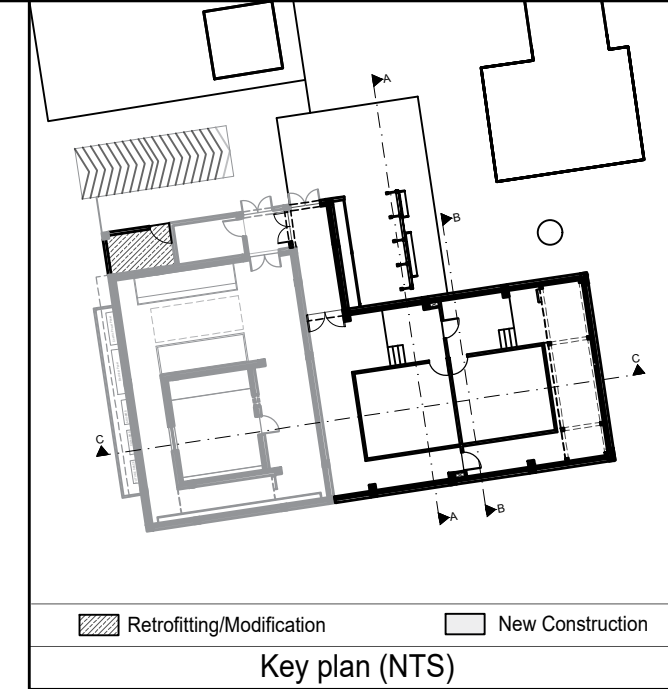
Architectural Drawings Drawing no: 04

IAQ and Balanced Ambient Calorimeter Chamber (Proposed LAB extension)

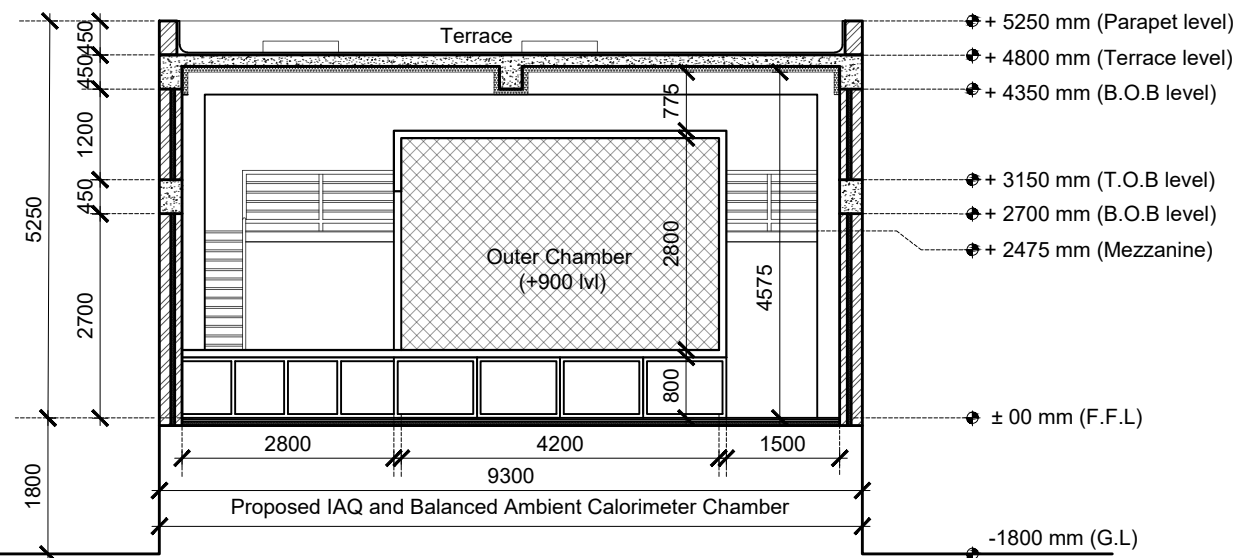
Issued from: CARBSE, CEPT University



Section AA

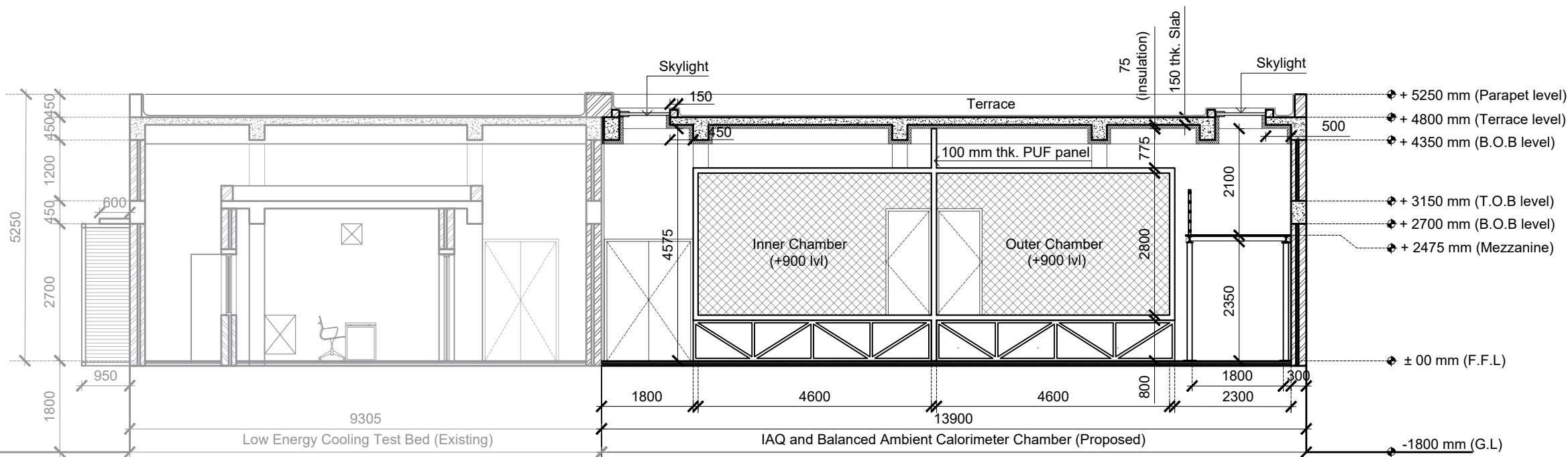


Key plan (NTS)



Section BB

Window Air Leakage Test Apparatus



Section CC

Sectional Elevation

Legends for Proposed layout

- New construction
- Fabrication Part
- PUF Panels

Scale 1: 100 (in A3)
(all the dimensions are in mm)

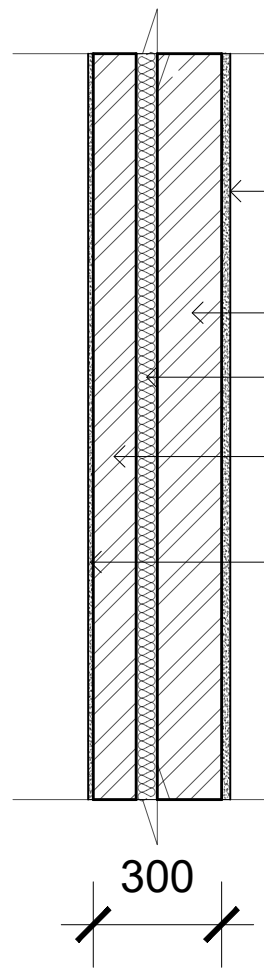


Architectural Drawings Drawing no: 05

IAQ and Balanced Ambient Calorimeter Chamber (Proposed LAB extension)

Issued from: CARBSE, CEPT University

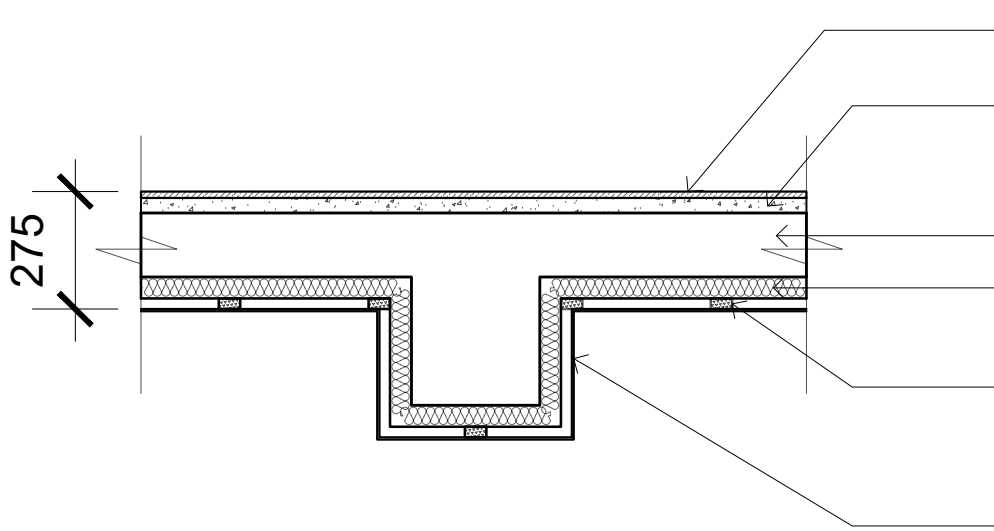
a. Details of Wall



- External cement plaster rendering (20 mm thick) with painting (double coat)
- AAC wall (150 mm thick)
- XPS insulation (50 mm thick)
- AAC wall (100 mm thick)
- Internal cement plaster rendering (12 mm thick) with painting (double coat)

300

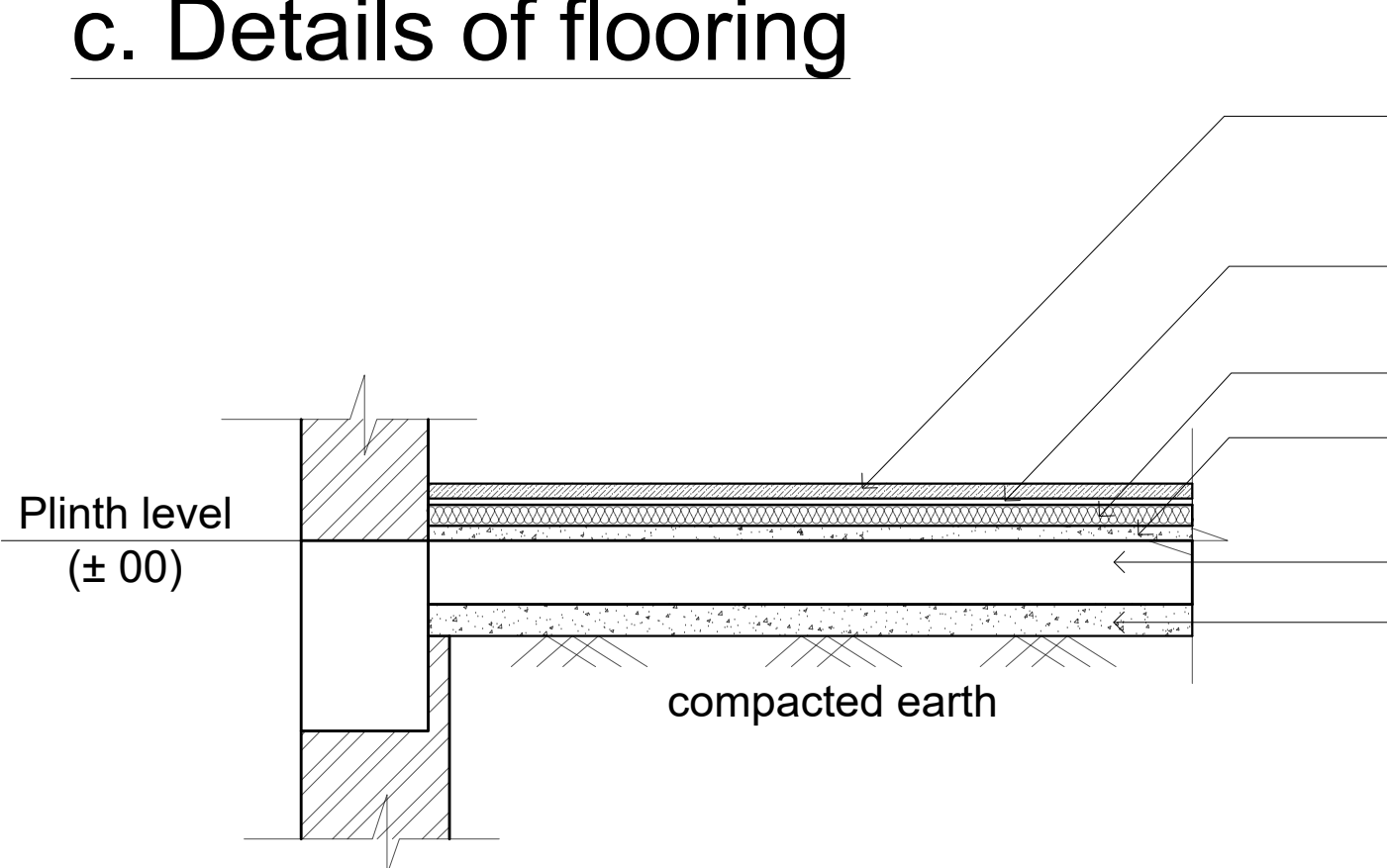
b. Details of roofing



- China mosaic tile finish
- Cement screed (35-50 mm thick) (compliant with the drainage slope)
- RCC slab (150 mm thick)
- XPS insulation (50 mm thick)
- 25 mm air gap (XPS battens fixed with insulation board to hold the bubble wrap below)
- Bubble wrap film (Three layer)

275

c. Details of flooring



- Option 1: epoxy flooring finish (e.g., automobile workshop);
Option 2: Kota stone flooring
- Polyethylene vapor barrier / thin layer of screed over fibreglass mesh
- XPS insulation (50 mm thick)
- Cement screed (35 mm thick)
- RCC grade slab (150 mm thick)
- PCC bed (75 mm thick)

Plinth level
(± 00)

compacted earth

STANDARD NOTES –

GENERAL:–

- ALL DIMENSIONS ARE IN mm. & LEVELS ARE IN mts.
- ALL DIMENSIONS & LEVELS SHALL BE CHECKED WITH ARCHITECTURAL DRAWING. ANY AMBIGUITY, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF ARCHITECT/CONSULTANT BEFORE EXECUTION.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL G.A., CIVIL, MECHANICAL G.A. AND ELECTRICAL G.A. DRAWINGS AND CO-ORDINATE THE SIZE AND LOCATION OF ALL OPENING, SLEEVES, CHASES, CONDUITS, DEPRESSED AREAS, FLOOR FINISHES, FILLS, ANCHORS, MASONRY DETAILS, HANGERS, POCKETS, CURBS, FOUNDATION BOLTS, INSERTS, MISCELLANEOUS STEEL, ETC. BEFORE PLACING CONCRETE.
- THE CONTRACTOR SHALL GIVE DUE CONSIDERATION TO ALL SAFETY MEASURES DICTATED BY INDIAN CODES OF PRACTICE.
- CONTRACTOR SHALL TAKE CARE OF ALL UNDER GROUND UTILITIES OF CIVIL, MECHANICAL, ELECTRICAL AND OTHER SERVICES AS THEY INTERFACE WITH STRUCTURAL FOUNDATIONS AND OTHER UNDERGROUND WORKS.
- SAND/EARTH FILLING SHALL BE DONE SIMULTANEOUSLY BOTH SIDE OF WALL.
- APPROVED EARTH FILLING SHALL BE DONE IN LAYERS NOT EXCEEDING 300mm ADEQUATELY WATERED AND WELL COMPACTED.
- DO NOT SCALE THE DRAWINGS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.

EXCAVATION:–

- WHILE CARRYING OUT THE EXCAVATION AT THE FOUNDATION LEVEL, ADEQUATE CARE SHALL BE EXERCISED TO PREVENT LOOSENING / DAMAGE TO THE FOUNDING STRATA. IN CASE OF ROCK EXCAVATION THE FINAL LEVELS TO BE ACHIEVED BY ROCK CHISELING ONLY.
- ANY OVER EXCAVATION BEYOND THE LEVELS SPECIFIED SHALL BE FILLED WITH PCC 1:2:4 TO BRING THE FOUNDATION BOTTOM TO AN EVEN ACCEPTABLE LEVEL.
- THE FOUNDATION STRATA TO BE INSPECTED, DOCUMENTED AND APPROVED BY THE SITE INCHARGE / PMC BEFORE PLACING THE PCC
- IN CASE GROUND WATER TABLE IS ENCOUNTERED DURING EXCAVATION OR INGRESS OF WATER BY ANY OTHER MEANS, CONTRACTOR SHALL INSTALL A SUITABLE DEWATERING SYSTEM TO KEEP THE EXCAVATED AREA DRY. SITE SHOULD BE KEPT FULLY DRY DURING ALL CONCRETE POURING OPERATIONS.
- WHILE EXCAVATING, THE STABILITY OF SLOPES OF ADJACENT SOIL SHALL BE ENSURED BY THE CONTRACTOR.
- NECESSARY SHORING AND STRUTTING SHALL BE DONE TO PROTECT & ENSURE SAFETY OF ADJACENT STRU.

NOTES FOR R.C.C. WORKS:–

- ALL CONC. SHALL BE MACHINE MIXED & MACHINE VIBRATED
- STEEL CHAIRS SHALL BE PROVIDED TO KEEP TOP STEEL IN PROPER POSITION
- T – INDICATES HIGH YIELD STRENGTH DEFORMED BARS FE 500 D CONFIRMING TO IS:1786 OR EQUIVALENT WITH 0.2% PROOF STRESS OF 500 N/mm² AS SPECIFIED IN DWG.
- LAP LENGTH SHALL BE 45 TIMES DIA. OF BARS FOR M25, 55 TIMES DIA OF BARS FOR M20 AND 40 TIMES DIA. OF BARS FOR M30/M35 CONCRETE MIX.
- CURING OF CONCRETE MEMBERS SHALL BE CARRIED OUT FOR A MINIMUM PERIOD OF 12 DAYS AFTER CASTING BY PONDING OR COVERING SURFACE BY JUTE BAGS KEPT CONSTANTLY WET OR SUCH OTHER MEANS.
- REINFORCEMENT SHALL BE ADJUSTED SUITABLY AT SITE FOR PROVIDING CLEAR SPACE FOR THE INSERTS, BOLTS, POCKETS ETC. UNLESS SPECIFIED OTHERWISE ON THE DRAWING.
- FOR ALL CONSTRUCTION JOINTS, FOLLOWING CARE SHALL BE TAKEN, UNLESS NOTED OTHERWISE:
 - MAKE THE SURFACE OF EXISTING CONCRETE ROUGH. REMOVE ALL LOOSE MATERIALS & CLEAN THE SURFACE THOROUGHLY.
 - APPLY BONDING AGENT OVER THE EXISTING CONCRETE SURFACE PRIOR TO TAKING UP THE NEW CONCRETING.
- GROUTING SHALL BE DONE WITH NON-SHRINK GROUT. NO ADDITIONAL MATERIAL/ADMIXTURES SHALL BE ADDED.
- ALL CONCRETING WORKS TO BE WEIGH BATCHED OR READY MIXED CONCRETE OF APPROVED DESIGN MIX

FOUNDATIONS:–

- SOIL BEARING CAPACITY HAS BEEN CONSIDERED AS 8 TONS.SQ-MT AT 2 M DEPTH BELOW NGL (AS PER REPORT OF KBM ENGINEERING LAB) IF QUESTIONABLE SOIL IS ENCOUNTERED, CONSULTANTS SHALL BE INFORMED IMMEDIATELY
- CONCRETE GRADE FOR FOOTINGS SHALL BE M25, 28 DAYS CUBE STRENGTH 25 N/mm²., UNLESS SPECIFIED OTHERWISE.
- CLEAR COVER TO MAIN STEEL 50 mm IN FOOTINGS ON ALL SIDES

BEAMS & SLAB:–

- CONCRETE GRADE FOR BEAMS & SLAB SHALL BE M25 28 DAYS CUBE STRENGTH 25 N/mm²., UNLESS SPECIFIED OTHERWISE.
- CLEAR COVER TO MAIN STEEL SHALL BE 30 mm IN BEAM & 20 mm IN SLAB.
- PROPS. FOR INVERTED BEAMS AND SLAB BEAMS TO BE KEPT AS PER REGULAR BEAMS.
- DE-SHUTTERING PERIODS: IN NORMAL CIRCUMSTANCES. FORMS SHALL GENERALLY BE REMOVED AFTER EXPIRY OF THE FOLLOWING PERIODS :
 - WALLS, COLUMNS AND VERTICAL FACES OF ALL STRUCTURAL MEMBERS INCLUDING SIDES OF BEAMS. 24 HOURS
 - SLABS:
 - SPANNING UP TO 4.5 M. 7 DAYS
 - SPANNING OVER 4.5 M. 14 DAYS
 - BEAMS AND ARCHES:
 - SPANNING UP TO 6 M. 14 DAYS
 - SPANNING OVER 6 M. 21 DAYS

BRICK MASONRY WORK:–

- MINIMUM CRUSHING STRENGTH OF BRICK SHALL BE 7.5 N/mm².
- ALL STRUCTURAL MASONRY WORK SHALL BE DONE IN 1:6 CEMENT MORTAR BELOW PLINTH. AND 1:4 CEMENT MORTAR ABOVE PLINTH

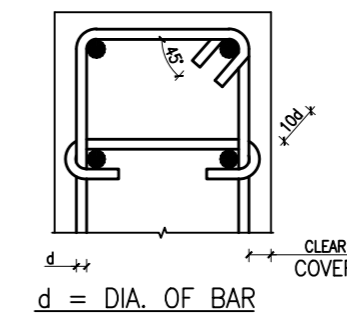
STRUCTURAL STEEL:–

- ALL WELDING SHALL CONFORM TO I.S. 816 & 1323.
- ALL FABRICATION SHALL CONFORM TO I.S. 800.
- ALL STEEL SHALL BE OF TESTED QUALITY TO CONFORM TO I.S. 2062.
- ALL WELD TO BE 6mm FULL FILLET WELD. UNLESS SPECIFIED OTHERWISE.
- ERECTION JOINT SHALL BE FULLY WELDED AT SITE AFTER ERECTION.
- DURING ERECTION, CONTRACTOR SHALL TAKE FULL PRECAUTION TO SUPPORT OR TIE ALL MEMBERS UNTILL FINAL GROUTING/WELDING OR BOLTING AT JOINT IS COMPLETED AS PER DRAWING.
- ALL STEEL WORK SHALL HAVE RECEIVE ONE COAT OF RED OXIDE PAINT BEFORE ERECTION.
- ALL STEEL WORK SHALL BE PAINTED AS PER SPECIFICATIONS.
- ALL BOLTS ARE TO BE 8.8 GRADE, UNLESS OTHERWISE SPECIFIED.
- HOLES, WHEREVER REQUIRED, SHALL BE MADE BY DRILLING & GAS CUTTING HOLES SHALL NOT BE ALLOWED.
- ERECTION DRAWINGS & METHODOLOGY SHALL BE GOT APPROVED BY THE APPROPRIATE AUTHORITY/ AGENCY BEFORE COMMENCEMENT OF WORK.
- IN CASE OF DISCREPANCY IN MEMBER SIZE SHOWN IN GENERAL ARRAGEMENT DRAWING & FABRICATION DRAWING, THE SIZE GIVEN IN FABRICATION DRAWING SHALL GOVERN.
- BUTT WELDS WHERE INDICATES IN THE DRAWINGS ARE TO BE COMPLETE PENETRATION FULL STRENGTH BUTT WELDS.
- REMOVE ALL WELD SPATTER, FLUX, DAGS AND BURRS FROM STEELWORK. GRIND FLUSH ALL SEALING AND BUTT WELDS.
- PROVIDE WASHERS UNDER ALL NUTS & BOLT HEADS WHERE THE HEAD IS NOT EMBEDDED.

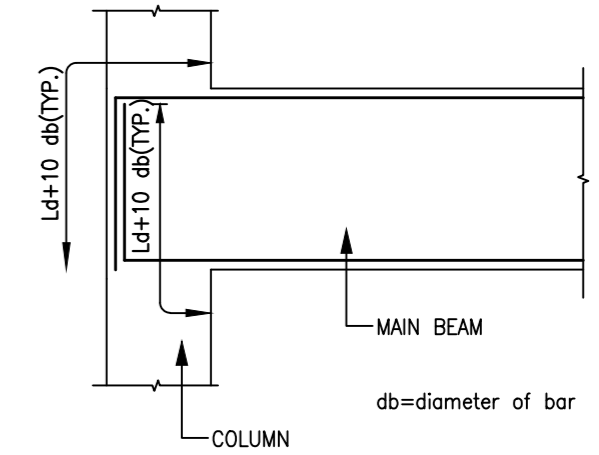
COLUMNS:–

- CONCRETE GRADE FOR COLUMN SHALL BE M25, 28 DAYS CUBE STRENGTH 25 N/mm²., UNLESS SPECIFIED OTHERWISE.
- CLEAR COVER TO MAIN STEEL 40 mm IN COLUMN
- LAPPING OF BARS/ADDITIONAL BARS SHALL BE LAPPED ONLY IN THE LAPPING ZONE (NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY SECTION.)
- DE-SHUTTERING PERIODS: IN NORMAL CIRCUMSTANCES. FORMS SHALL GENERALLY BE REMOVED AFTER EXPIRY OF THE FOLLOWING PERIODS :
 - WALLS, COLUMNS AND VERTICAL FACES OF ALL STRUCTURAL MEMBERS INCLUDING SIDES OF BEAMS. 24 HOURS

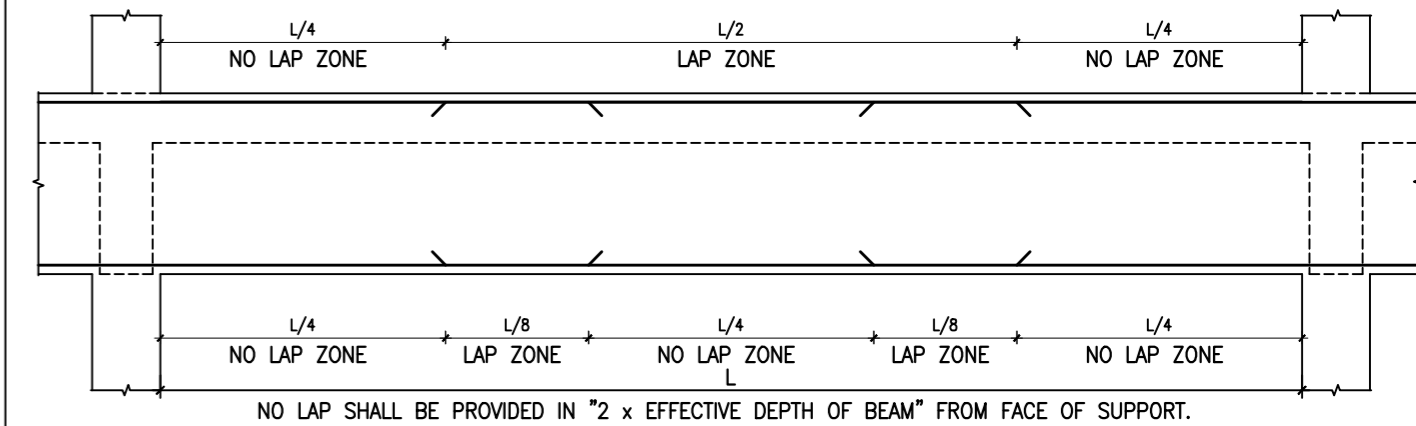
STANDARD DETAILS –



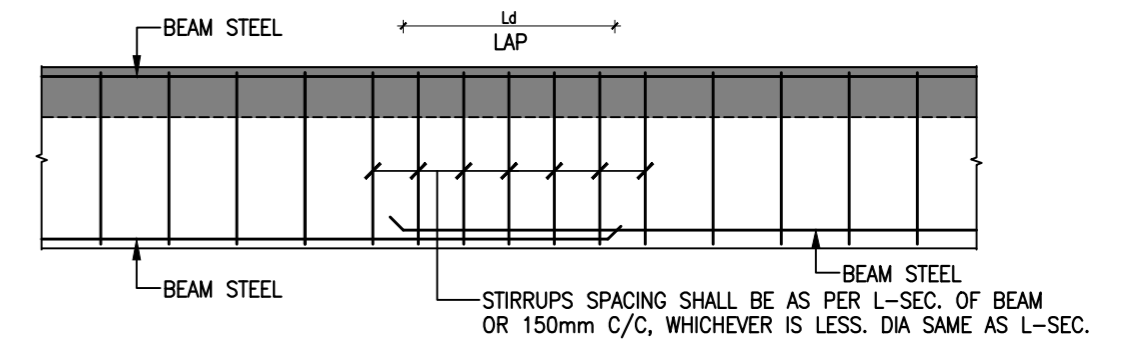
TYP. DETAIL OF HOOP AND CROSS TIE FOR COLUMNS



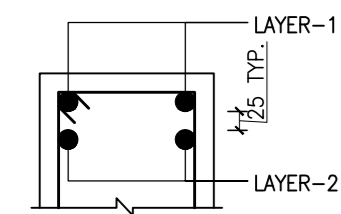
TYP. DETAIL OF ANCHORAGE AT BEAM COLUMN JUNCTION



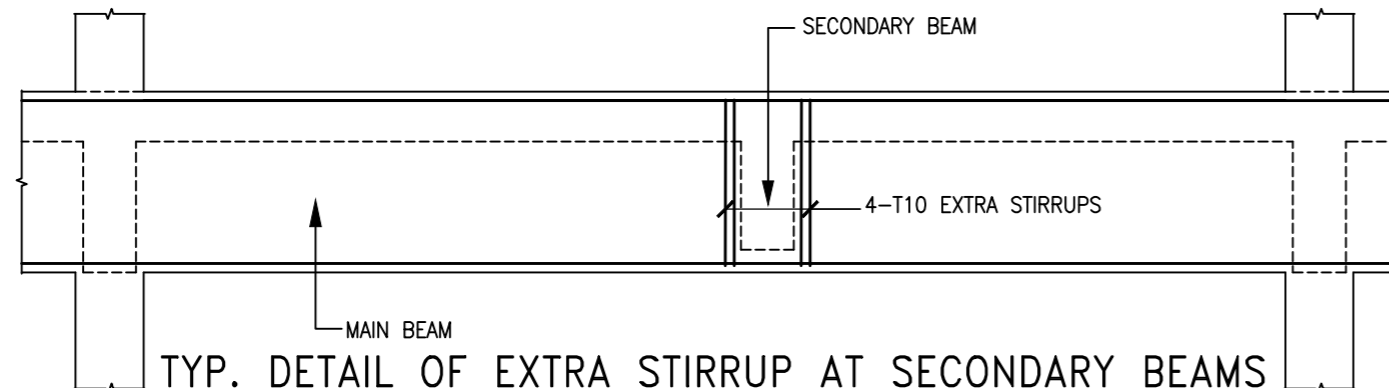
TYP. DETAIL OF LAP IN BEAMS



TYP. DETAIL OF STIRRUPS AT LAP IN BEAMS



TYPICAL DETAIL OF SECOND LAYER STEEL
SCALE :- 1:10



TYP. DETAIL OF EXTRA STIRRUP AT SECONDARY BEAMS

NOTES :

LEGENDS AND ABBREVIATIONS:

CONSULTANTS:

StrucArt Design



1005,Gala Empire, Opp Door Darshan Tower,
Drive In Road, Thaltej, Ahmedabad 380054
Ph.: +919825099046
E-mail : strucart.design@gmail.com

REVISION AND ISSUE:

R. NO.	DATE	REMARKS
RO	28-02-23	ISSUED FOR EXECUTION

FOR EXECUTION

DRAWING: GENERAL NOTES

DRAWING NO: S01

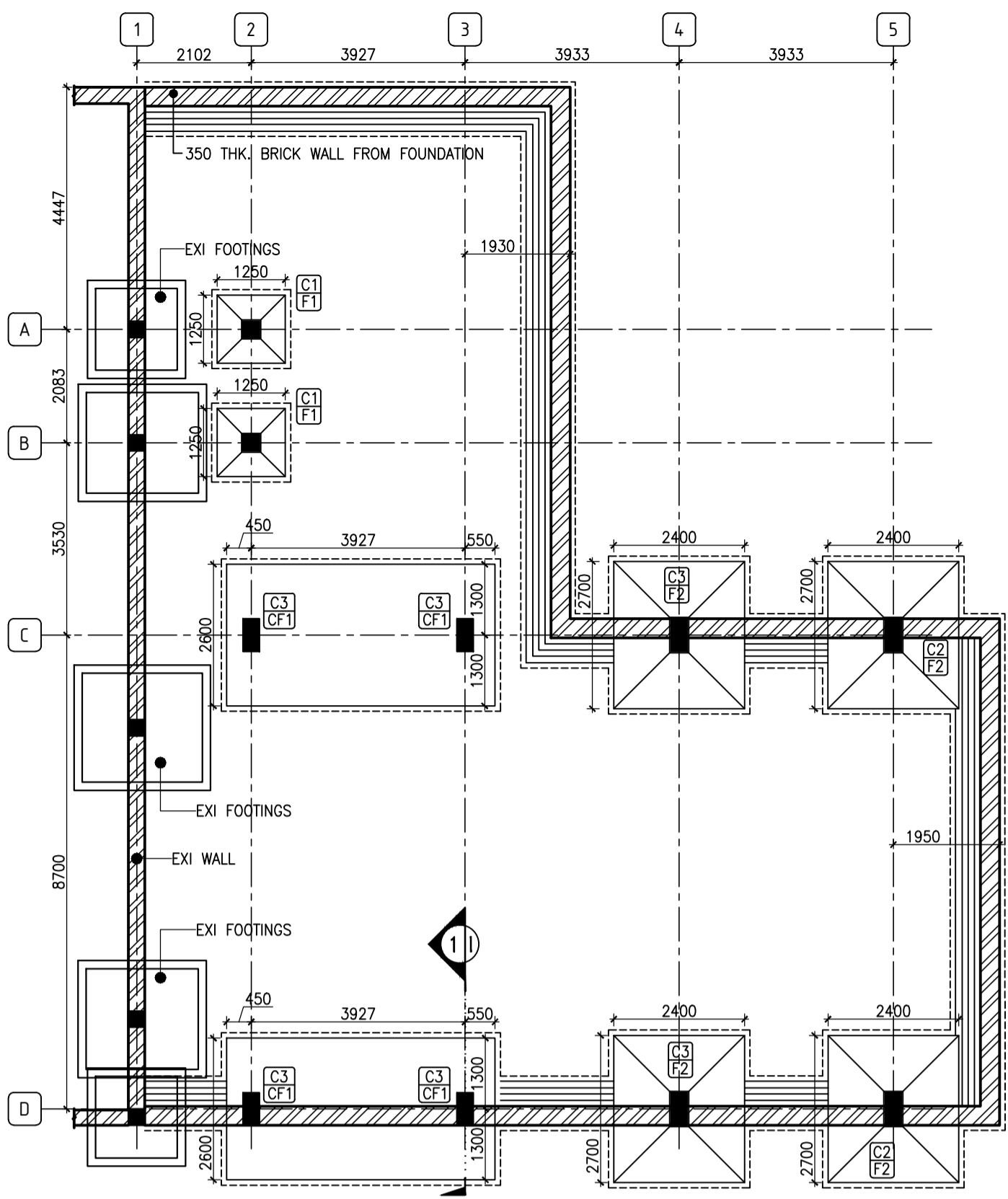
SCALE: 1:100,1:25 DATE :28 FEB 2023

DRAWN: RAVI CHECKED: BHAIKAV

SIGNATURE AND SEAL :

LECT EXTENSION (CEPT UNIVERSITY)

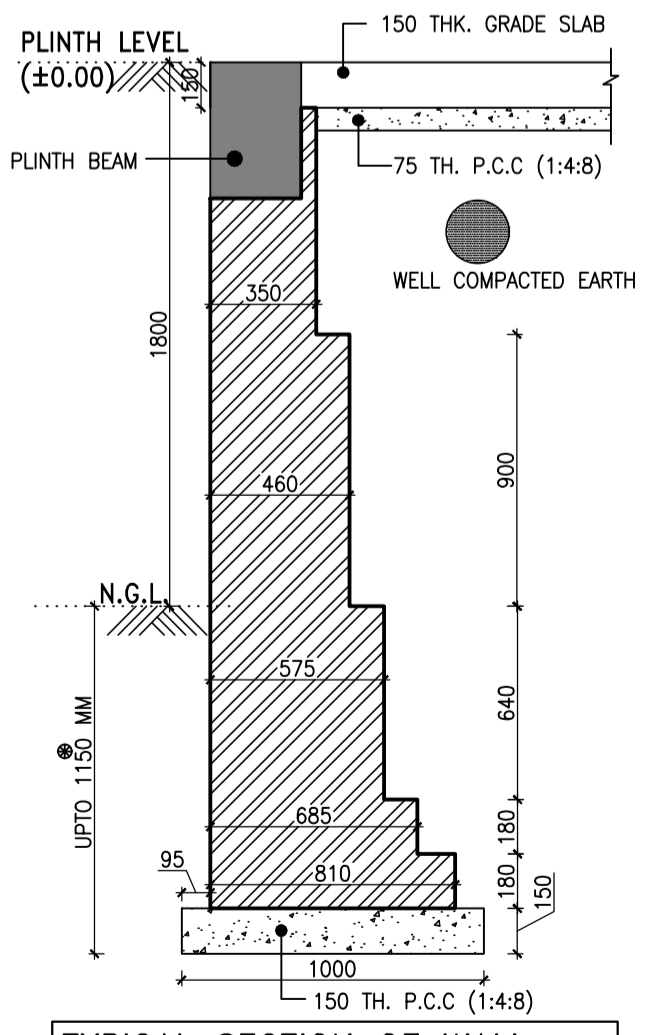
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STRU. LAYOUT FOR FOUNDATION LVL
SCALE :- 1:100

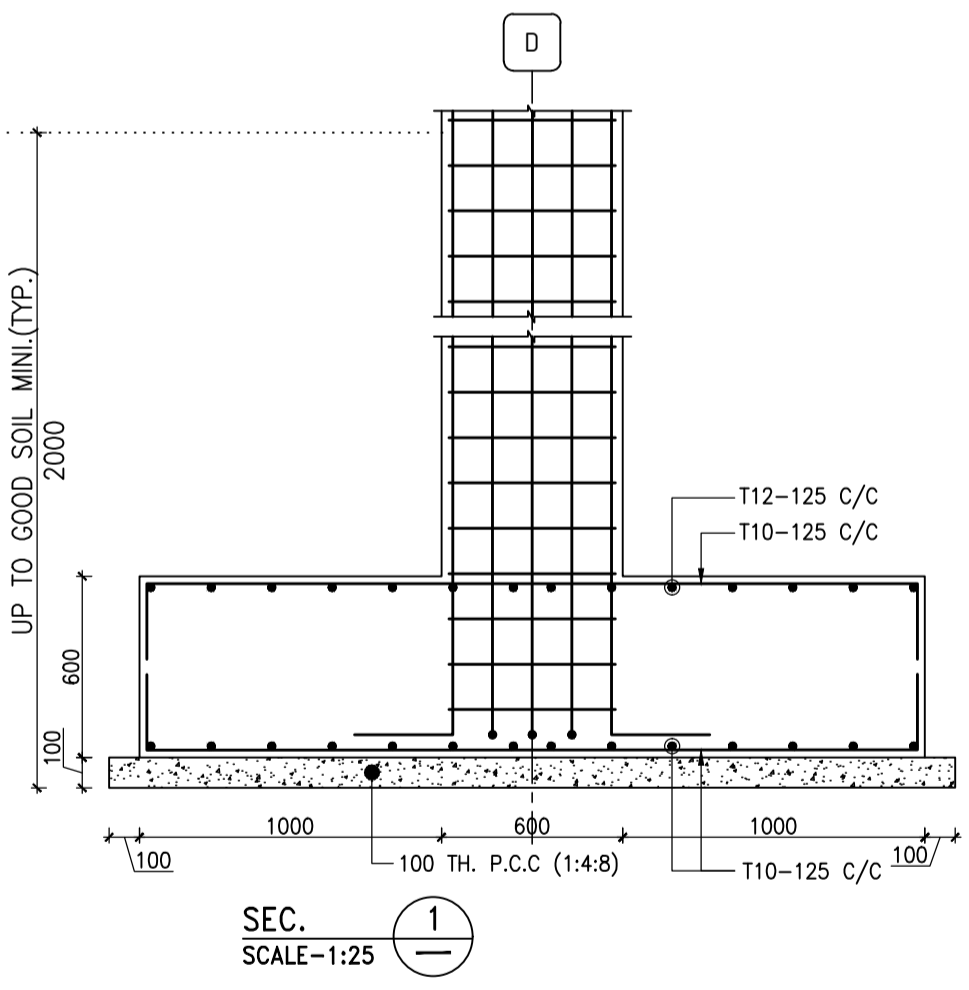
COLUMN MKD.	C1	C2	C3
FROM FOUNDATION TO TOP OF TERRACE LEVEL	UPTO +3150 LVL		
COLUMN RINGS AS PER TYP. SECTION	 2-SET RINGS	 3-SET RINGS 1-SET LINK	 3-SET RINGS 1-SET LINK
COLUMN STEEL	● 8-T16	● 4-T16+● 8-T12	● 6-T20+● 6-T16
CONCRETE MIX	M25	M25	M25

FOOTING MKD.	F1	F2	CF1
P.C.C. SIZE.....(LxB)	1450 x 1450	2900 x 2600	AS PER PLAN
FOOTING SIZE....(LxB)	1250 x 1250	2700 x 2400	AS PER PLAN
T	300	600	600
t	200	300	600
BOTT. STEEL// TO L	T10 @ 150 C/C	T10 @ 100 C/C	T10 @ 125 C/C
BOTT. STEEL// TO B	T10 @ 150 C/C	T10 @ 100 C/C	T10 @ 125 C/C
TOP. STEEL// TO L	-	-	T12 @ 125 C/C
TOP. STEEL// TO B	-	-	T10 @ 125 C/C
CONCRETE MIX	M25	M25	M25

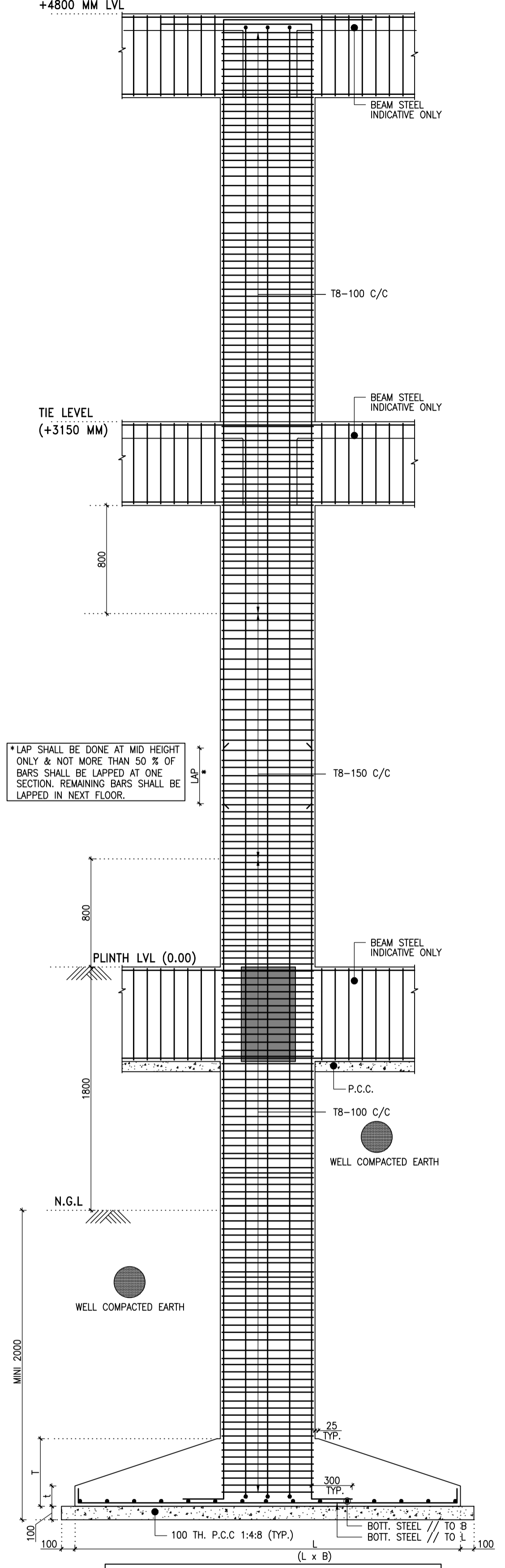


TYPICAL SECTION OF WALL
SCALE :- 1:25

NOTE:- BACKFILLING UPTO N.G.L. SHALL BE DONE SIMULTANEOUSLY ON BOTH SIDES OF WALL
● BOTTOM OF FOOTING SHALL MATCH WITH EXISTING BUILDING WALL FOOTING



SEC. 1
SCALE:-1:25



TYP. SECTION FOR COLUMNS & FOOTING
SCALE :- NTS

THE FOUNDATION LEVEL SHALL MATCH WITH EXISTING BUILDING FOOTING LEVELS

NOTES :
FOR ALL NOTES REFER S01

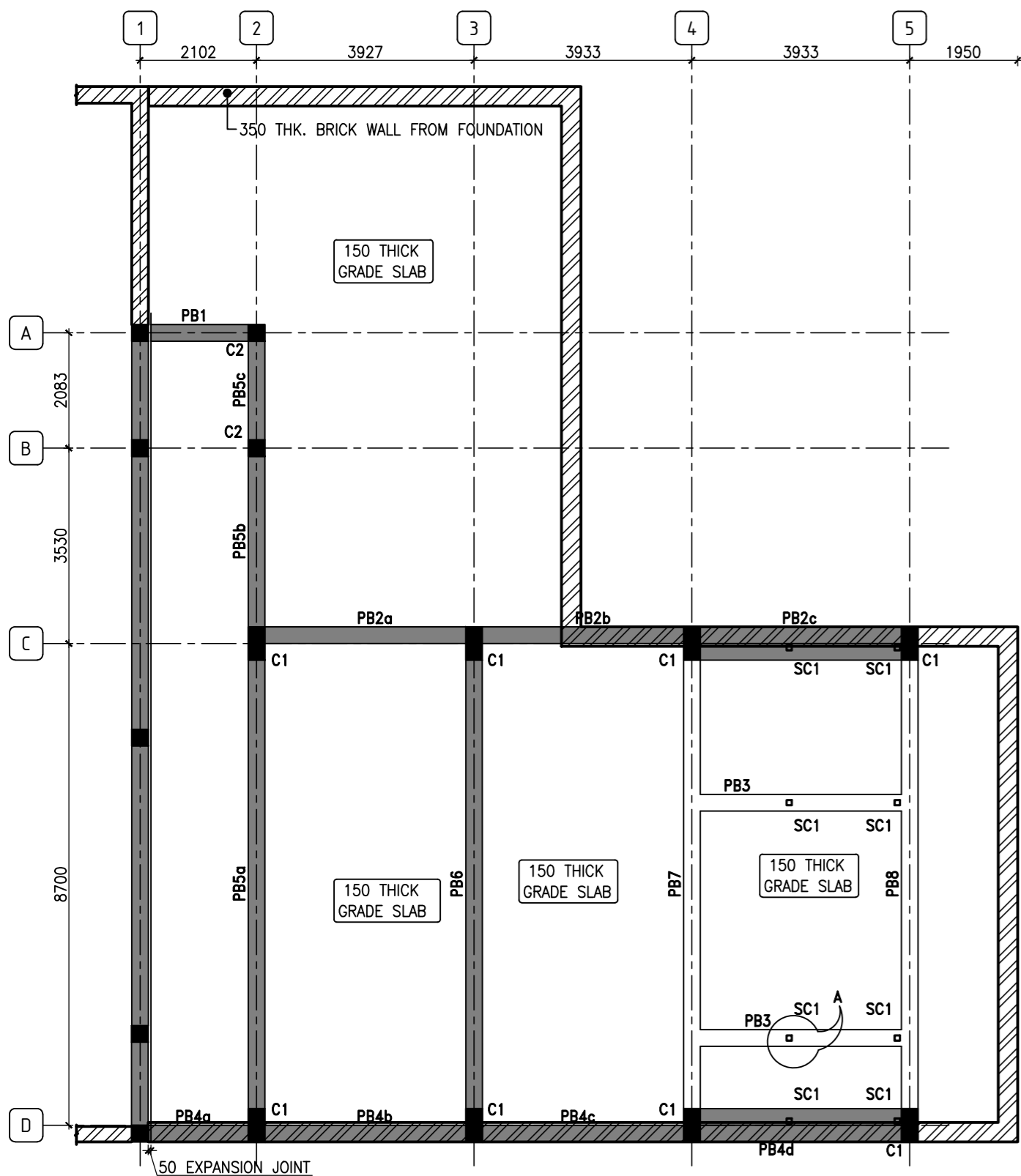
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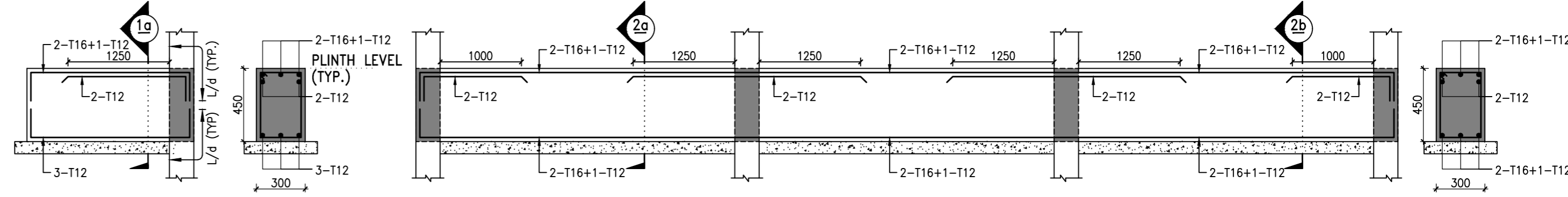
R. NO.	DATE	REMARKS
RO	28-02-23	ISSUED FOR EXECUTION

FOR EXECUTION	
DRAWING: STRUC. LAYOUT AND DETAILS FOR FOUNDATION	DRAWING NO: S02
SCALE: 1:100, 1:25	DATE : 28 FEB 2023
DRAWN: RAVI	CHECKED: BHAIKAV
SIGNATURE AND SEAL :	

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RO



STRU. LAYOUT AT PLINTH LEVEL
SCALE :- 1:100

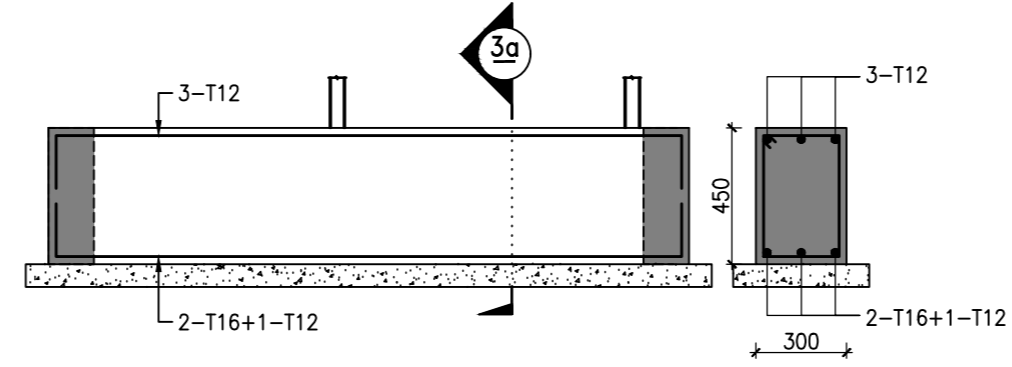


T8	T8
200	100
REST	10

SEC. 1a
SCALE-1:25

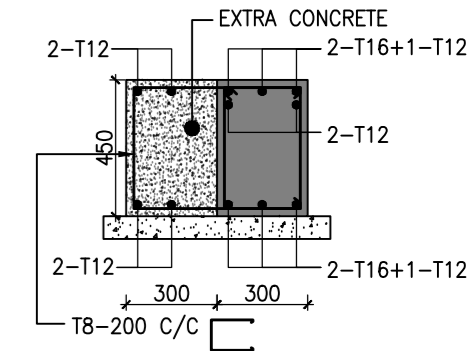
T8	T8	T8	T8	T8	T8	T8	T8	T8	T8
100	200	100	100	200	100	100	100	200	100
10	REST	10	10	REST	10	10	10	REST	10

SEC. 2a
SCALE-1:25

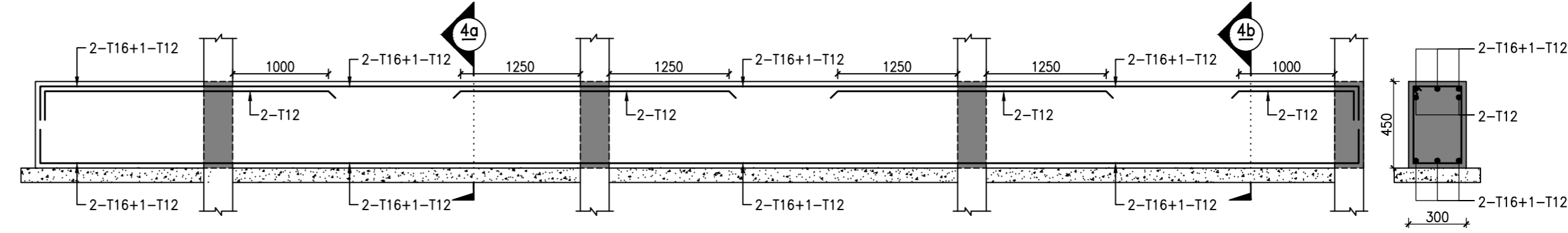


T8	T8
150	ALL

SEC. 3a
SCALE-1:25

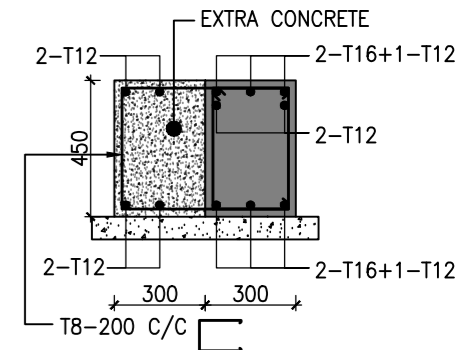


SEC. 2b
SCALE-1:25

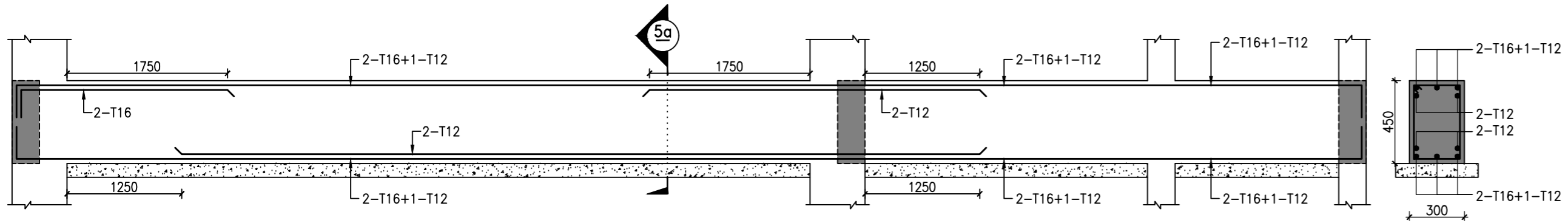


T8	T8	T8	T8	T8	T8	T8	T8	T8	T8
100	100	200	100	100	200	100	100	200	100
ALL	9	REST	9	9	REST	9	9	REST	9

SEC. 4a
SCALE-1:25

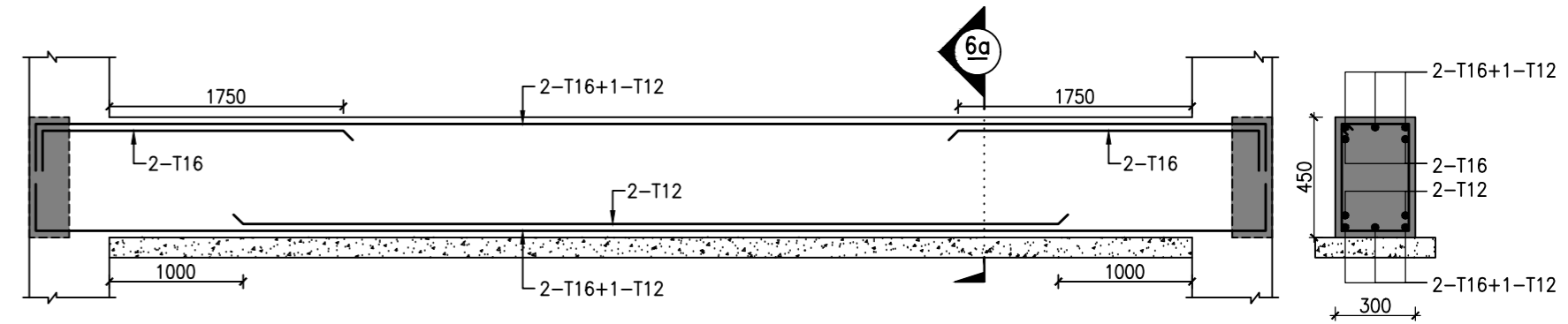


SEC. 4b
SCALE-1:25



T8	T8	T8	T8	T8	T8	T8	T8
100	200	100	100	200	100	100	100
15	REST	15	10	REST	10	ALL	10

SEC. 5a
SCALE-1:25



T8	T8	T8
100	200	100
15	REST	15

SEC. 6a
SCALE-1:25

NOTES :

LEGENDS AND ABBREVIATIONS:

CONSULTANTS:
StrucArt Design

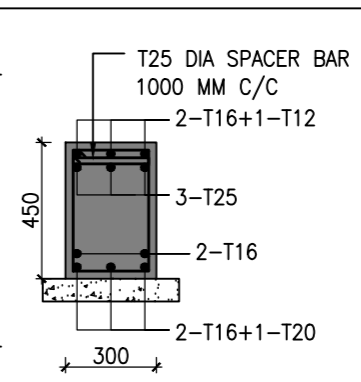
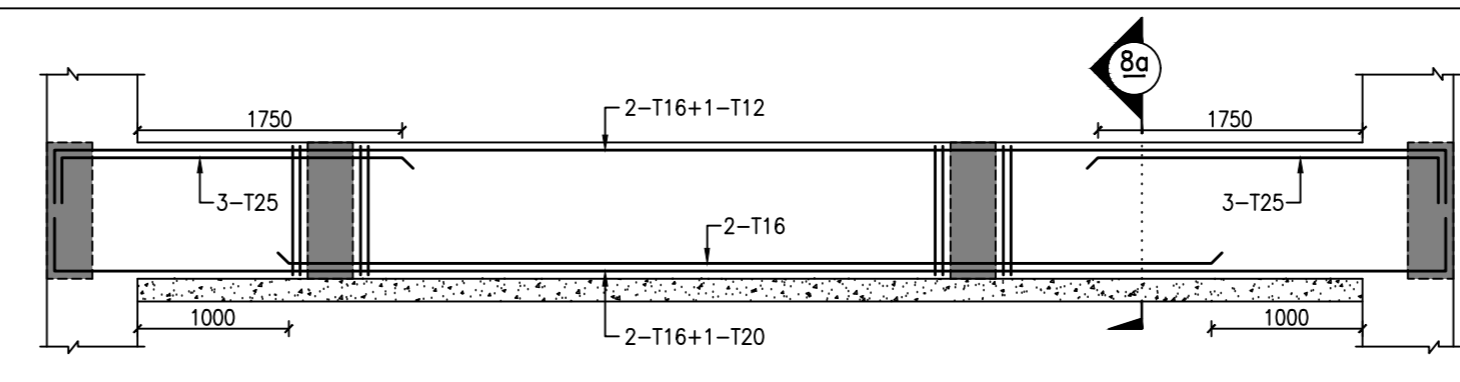
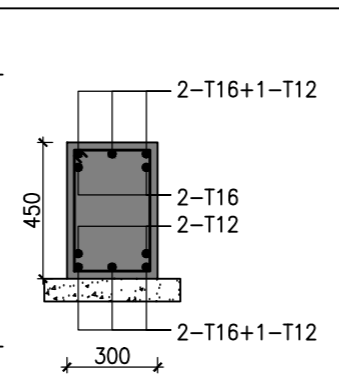
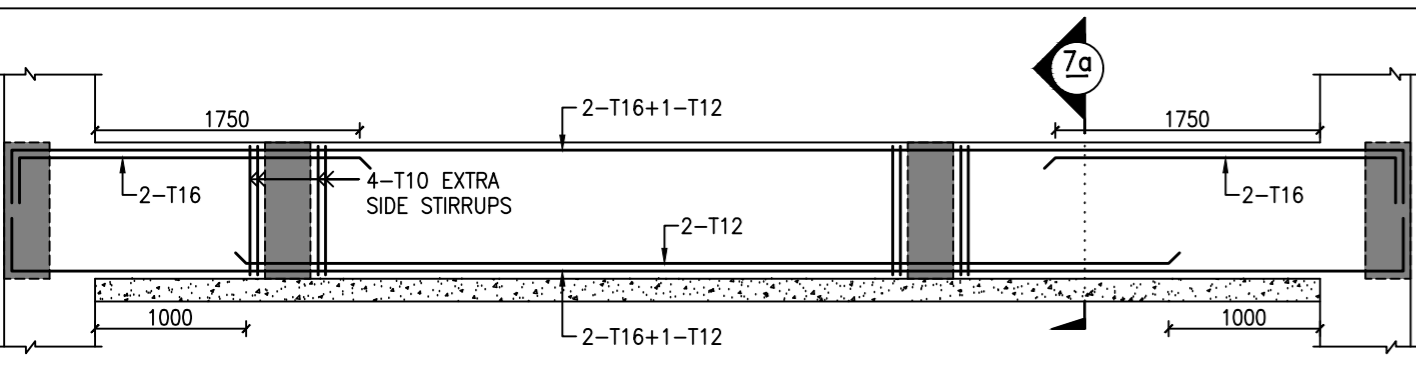
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DRAWING NO: S03
SCALE: 1:100,1:25 DATE :28 FEB 2023
DRAWN: RAVI CHECKED: BHAIRAV
SIGNATURE AND SEAL : RO

LECT EXTENSION (CEPT UNIVERSITY)



T8	T8	T8
100	200	100
15	REST	15

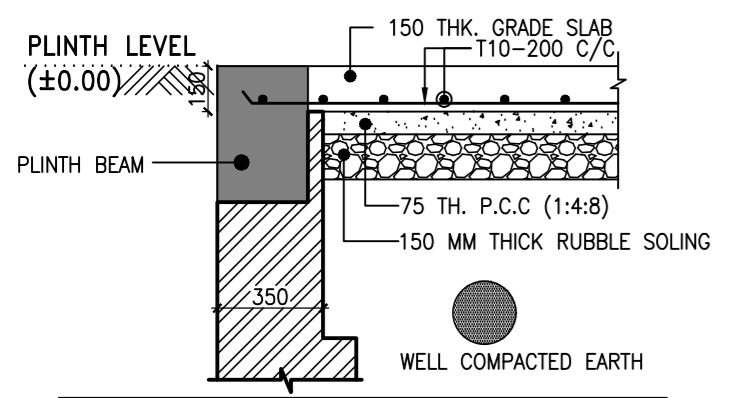
PB7

SEC. 7a
SCALE-1:25

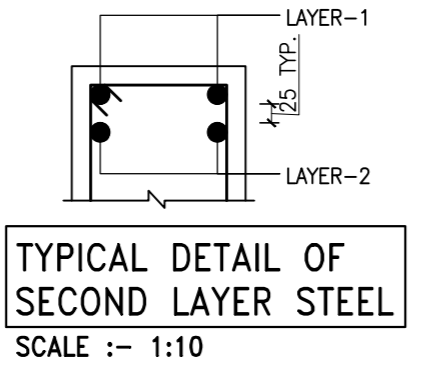
T8	T8	T8
100	150	100
15	REST	15

PB8

SEC. 8a
SCALE-1:25

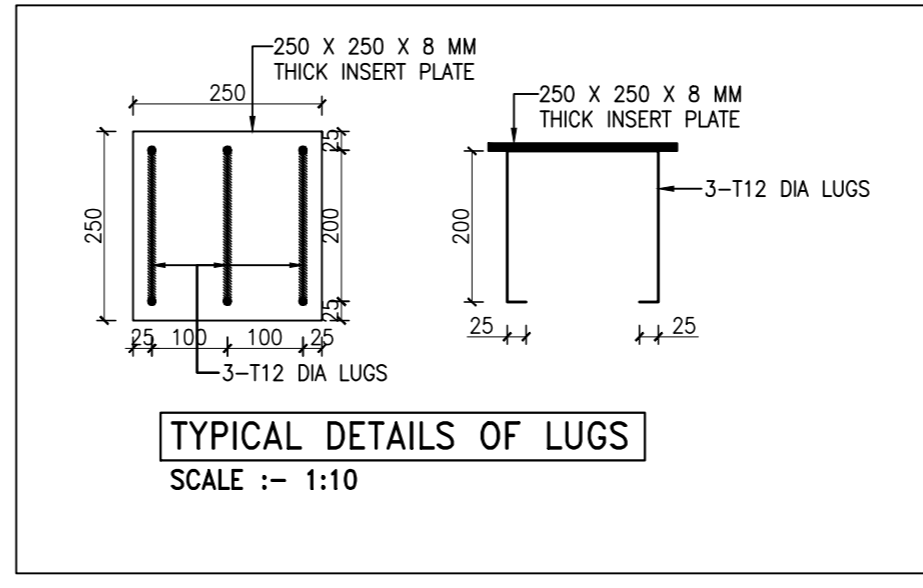


TYPICAL SECTION OF GRADE SLAB
SCALE :- 1:25

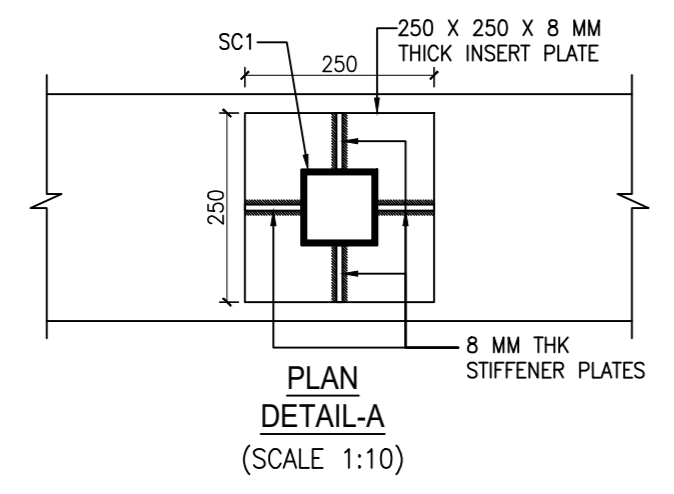


TYPICAL DETAIL OF SECOND LAYER STEEL
SCALE :- 1:10

STEEL MEMBER SCHEDULE	
SC1	100 x 100 x 6



TYPICAL DETAILS OF LUGS
SCALE :- 1:10



PLAN DETAIL-A
(SCALE 1:10)

NOTES :

LEGENDS AND ABBREVIATIONS:

CONSULTANTS:
StrucArt Design

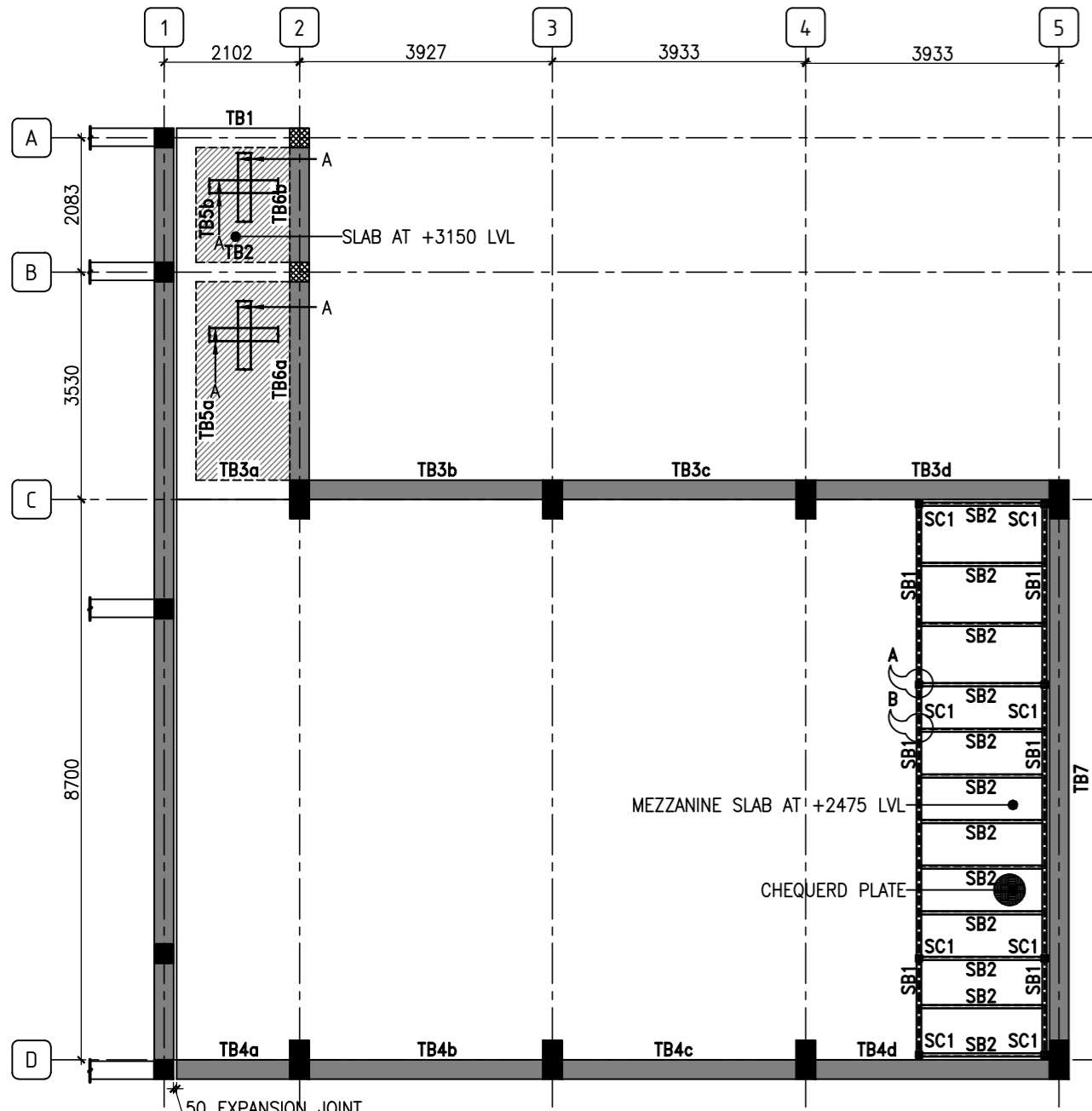


1005, Gala Empire, Opp Door Darshan Tower,
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E-mail : strucart.design@gmail.com

REVISION AND ISSUE:		
R. NO.	DATE	REMARKS
RO	28-02-23	ISSUED FOR EXECUTION

FOR EXECUTION	
DRAWING: STRUC. LAYOUT AT PLINTH LEVEL	
DRAWING NO: S04	
SCALE: 1:100,1:25	DATE :28 FEB 2023
DRAWN: RAVI	CHECKED: BHAIKAV
SIGNATURE AND SEAL :	
	RO

LECT EXTENSION (CEPT UNIVERSITY)

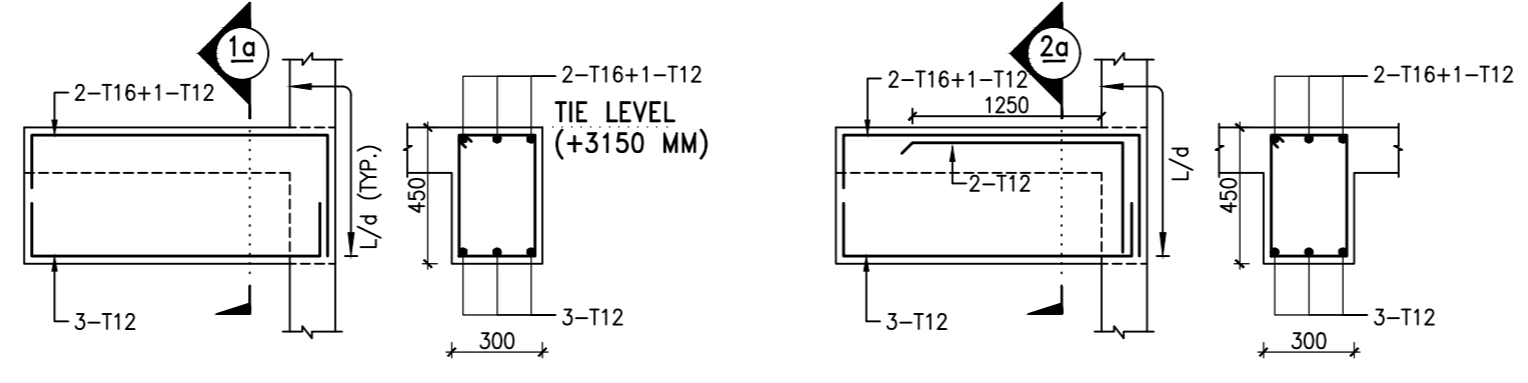


STRU. LAYOUT AT TIE LEVEL (+3150)

SCALE :- 1:100
* ALL SLABS ARE 150 THICK SLAB

SLAB STEEL SCHEDULE

A=T8-200 C/C DISTRIBUTION AT TOP & BOTTOM



TB1

T8	T8
200	100
REST	10

SEC. 1a
SCALE-1:25

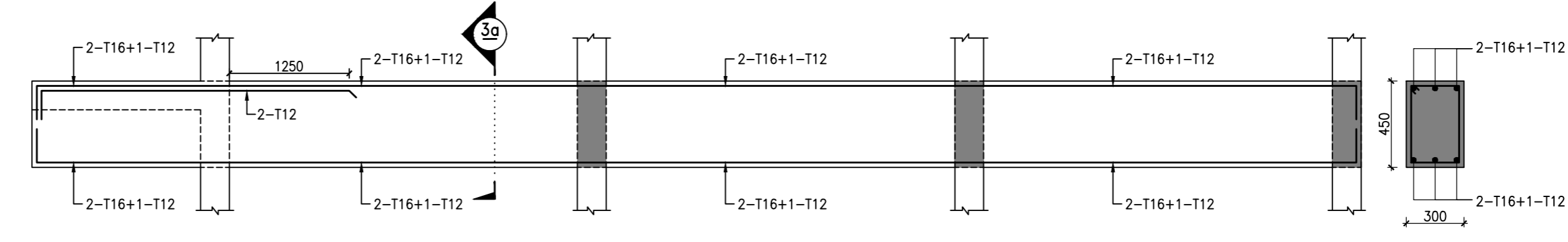
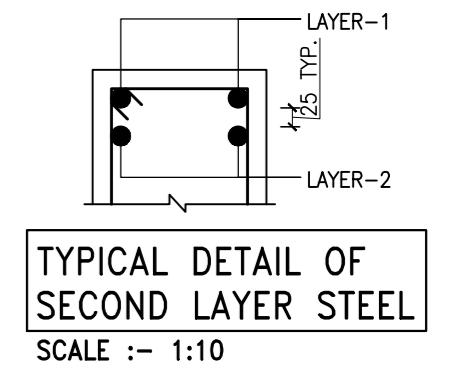
TB2

T8	T8
200	100
REST	10

SEC. 2a
SCALE-1:25

STEEL MEMBER SCHEDULE

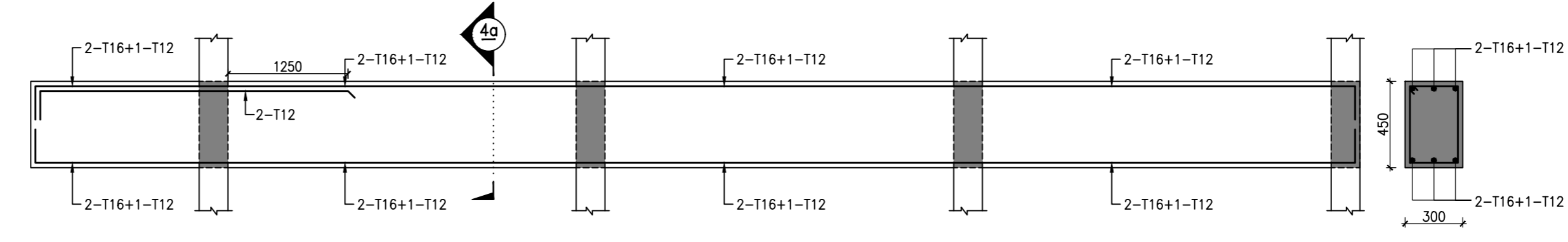
SC1	SB1	SB2



TB3a

T8	T8	T8	T8	T8	T8	T8	T8	T8	T8	T8	T8
100	100	200	100	100	200	100	100	200	100	200	100
All	10	REST	10	10	REST	10	10	REST	10	REST	10

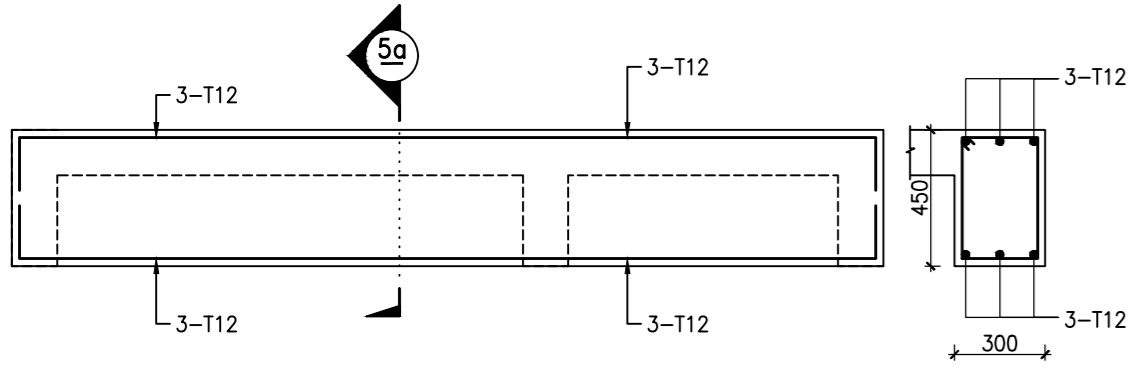
SEC. 3a
SCALE-1:25



TB4a

T8	T8	T8	T8	T8	T8	T8	T8	T8	T8	T8	T8
100	100	200	100	100	200	100	100	200	100	200	100
All	10	REST	10	10	REST	10	10	REST	10	REST	10

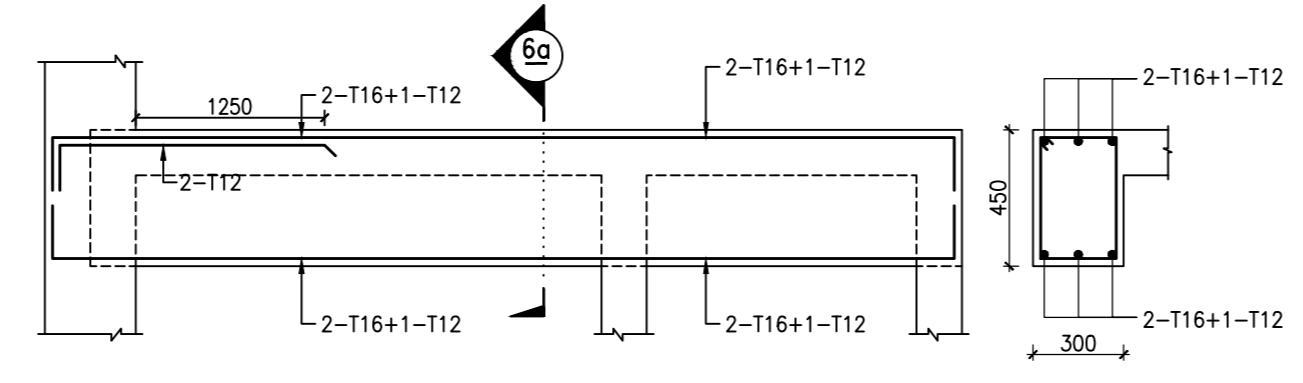
SEC. 4a
SCALE-1:25



TB5a

T8	T8
150	150
ALL	ALL

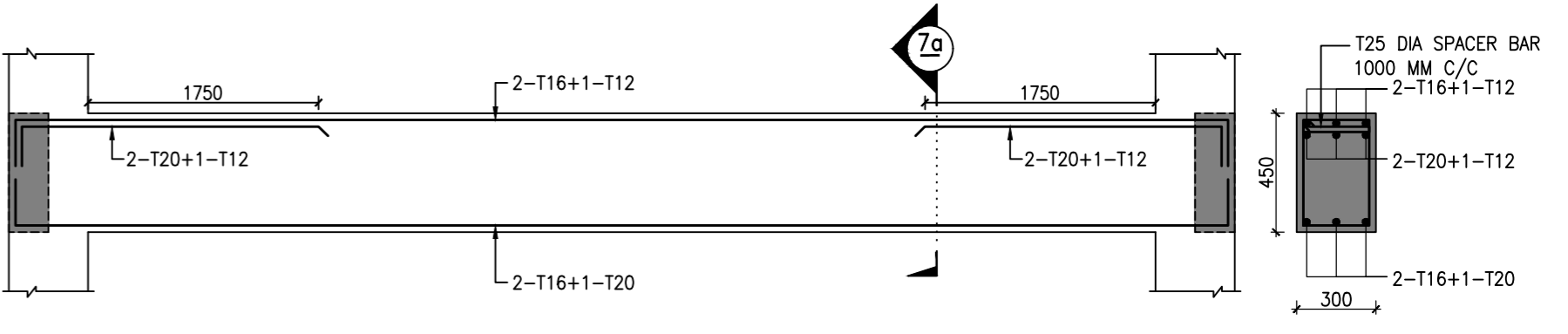
SEC. 5a
SCALE-1:25



TB6a

T8	T8
100	100
ALL	ALL

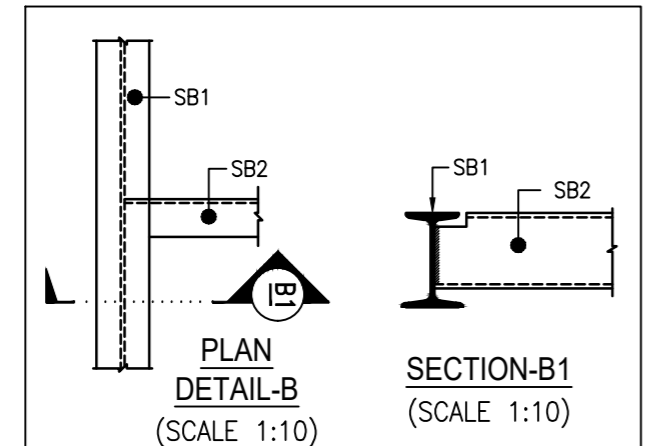
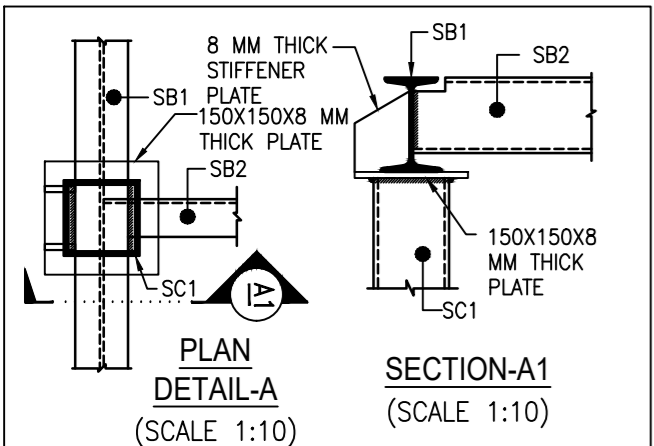
SEC. 6a
SCALE-1:25



TB7

T8	T8
100	100
15	15
REST	REST

SEC. 7a
SCALE-1:25



NOTES :

LEGENDS AND ABBREVIATIONS:

CONSULTANTS:
StrucArt Design

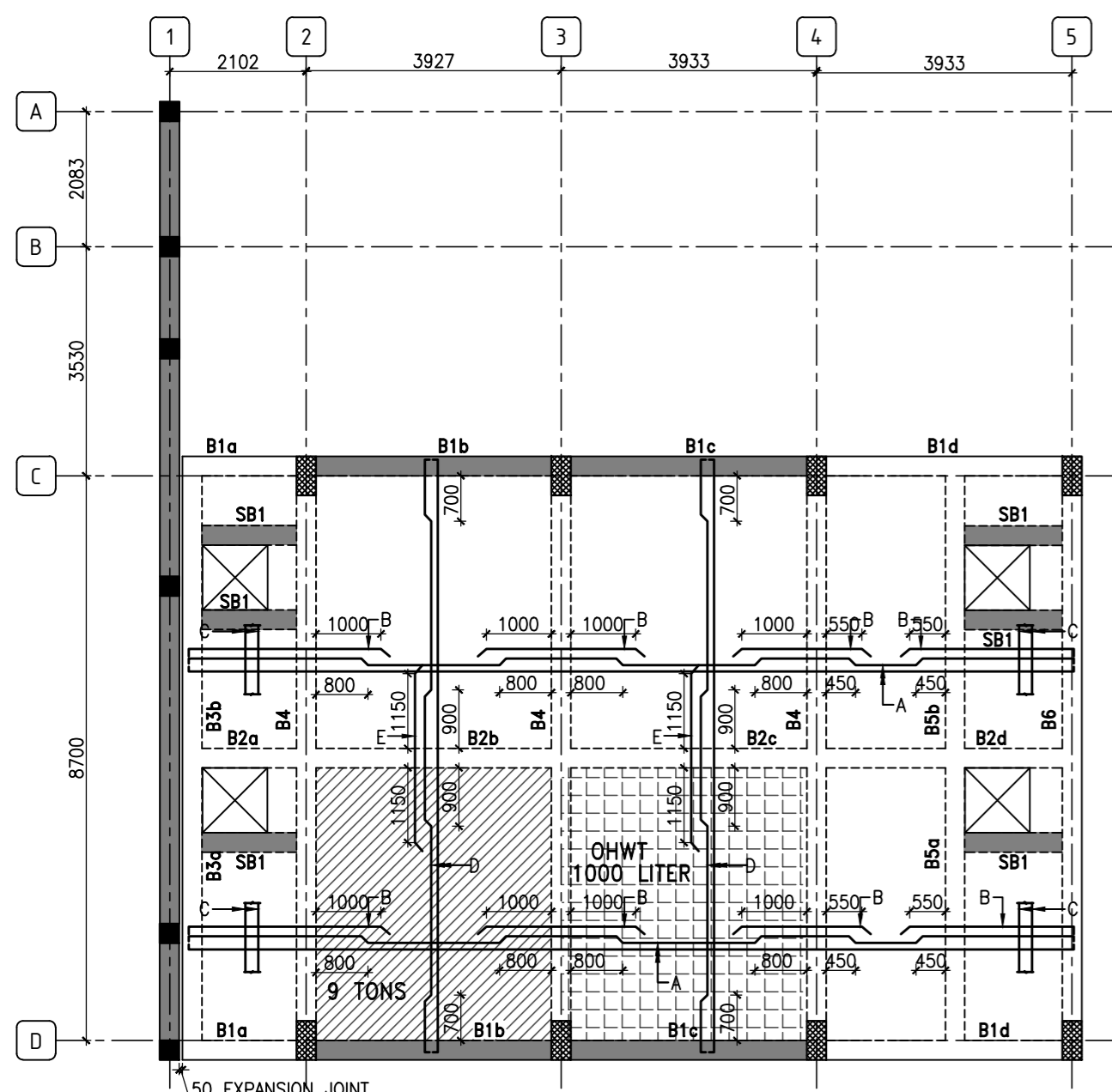
1005, Gala Empire, Opp Door Darshan Tower, Drive In Road, Thaljei, Ahmedabad 380054
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E-mail : strucart.design@gmail.com

REVISION AND ISSUE:

R. NO.	DATE	REMARKS
RO	28-02-23	ISSUED FOR EXECUTION

FOR EXECUTION
DRAWING: STRUC. LAYOUT AT TIE LEVEL (+3150)
DRAWING NO: S05
SCALE: 1:100,1:25 DATE :28 FEB 2023
DRAWN: RAVI CHECKED: BHAIKAV
SIGNATURE AND SEAL :

LECT EXTENSION (CEPT UNIVERSITY)



STRU. LAYOUT AT +4800 MM LEVEL

SCALE :- 1:100

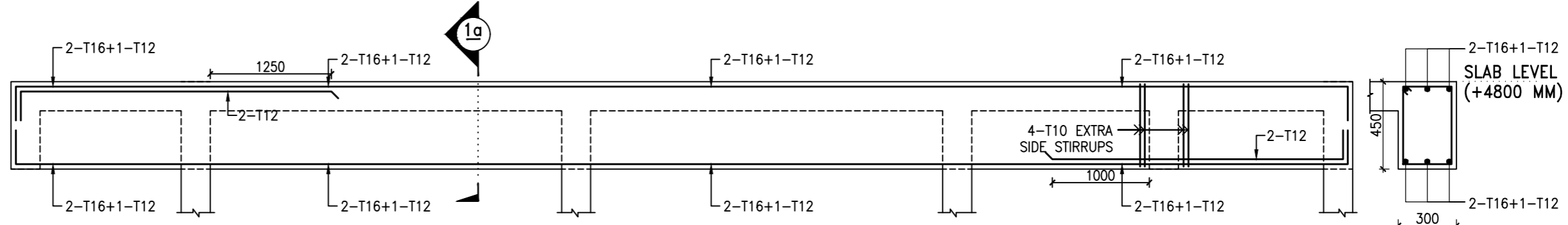
* ALL SLABS ARE 150 THICK SLAB

■ COLUMN TERMINATED

NOTE:- T8-200 C/C DIST STEEL SHALL BE PROVIDED AT TOP WHEREVER REQUIRED TO KEEP MAIN BARS IN POSITION.

SLAB STEEL SCHEDULE

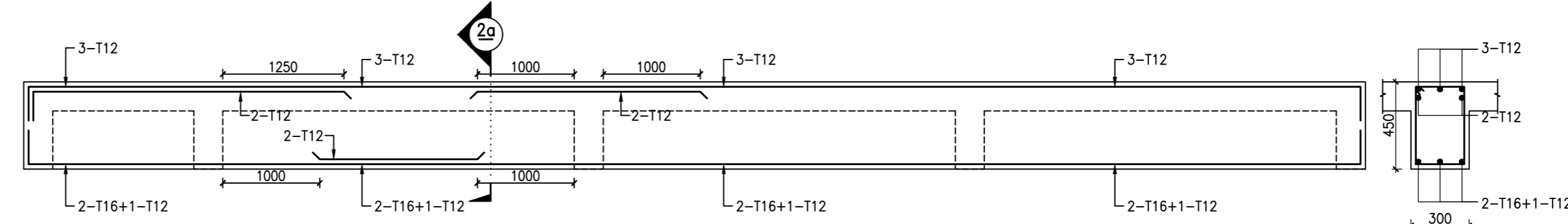
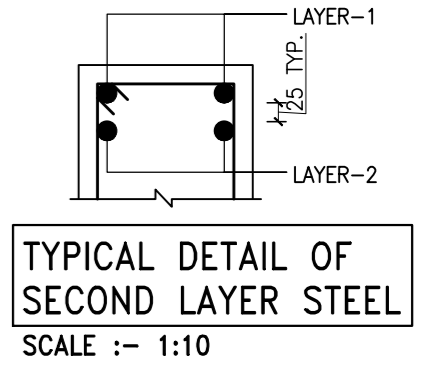
A=T8-100 C/C ALT BENT-UP
 B=T8-200 C/C EXTRA TOP
 C=T8-200 C/C DISTRIBUTION
 D=T8-150 C/C ALT BENT-UP
 E=T8-300 C/C EXTRA TOP



T8	T8	T8	T8	T8	T8	T8	T8	T8	T8	T8
100	100	200	100	100	200	100	100	100	200	100
ALL	10	REST	10	10	REST	10	10	REST	REST	10

B1a B1b B1c B1d

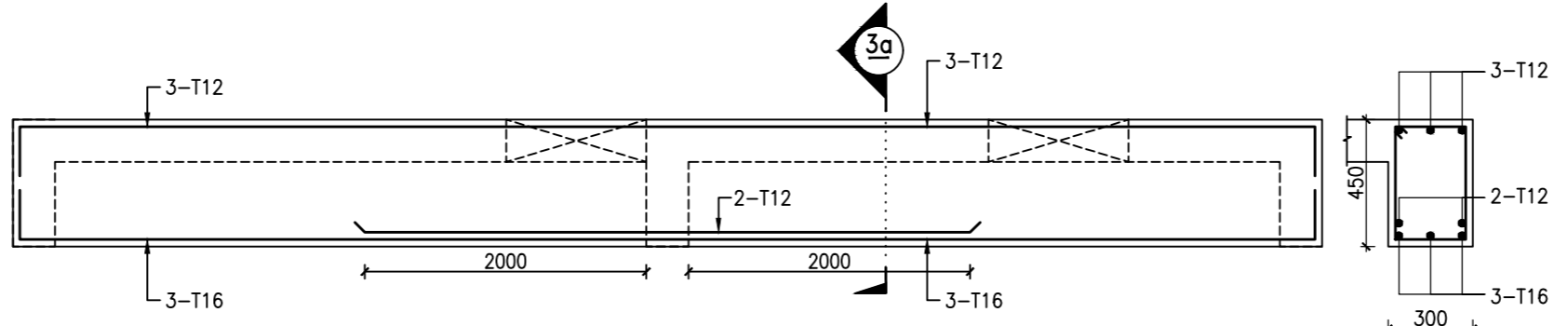
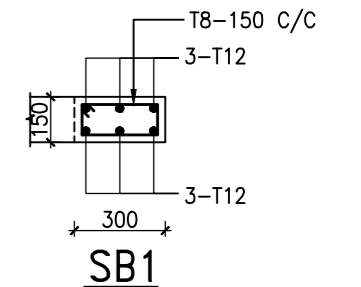
SEC. 1a
SCALE-1:25



T8	T8	T8	T8
150	150	150	150
ALL	ALL	ALL	ALL

B2a B2b B2c B2d

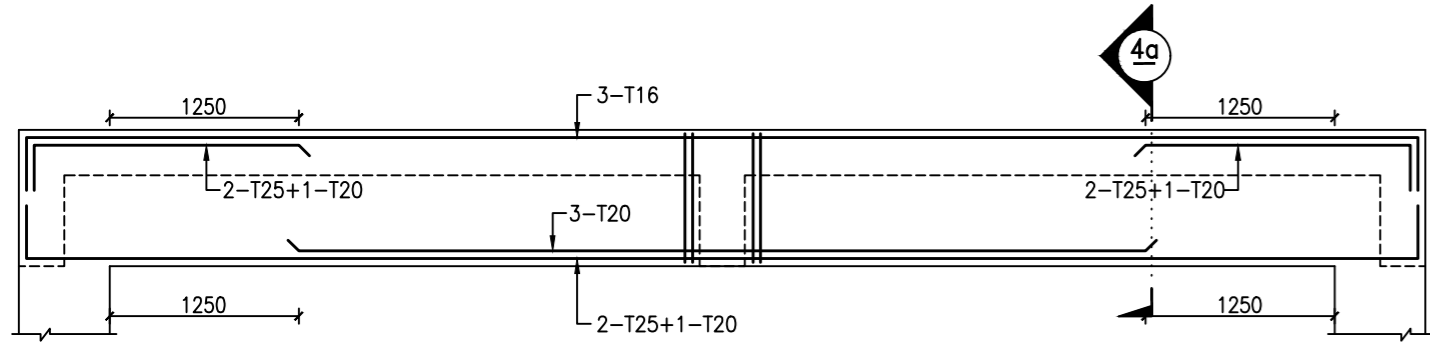
SEC. 2a
SCALE-1:25



T8	T8
150	150
ALL	ALL

B3a B3b

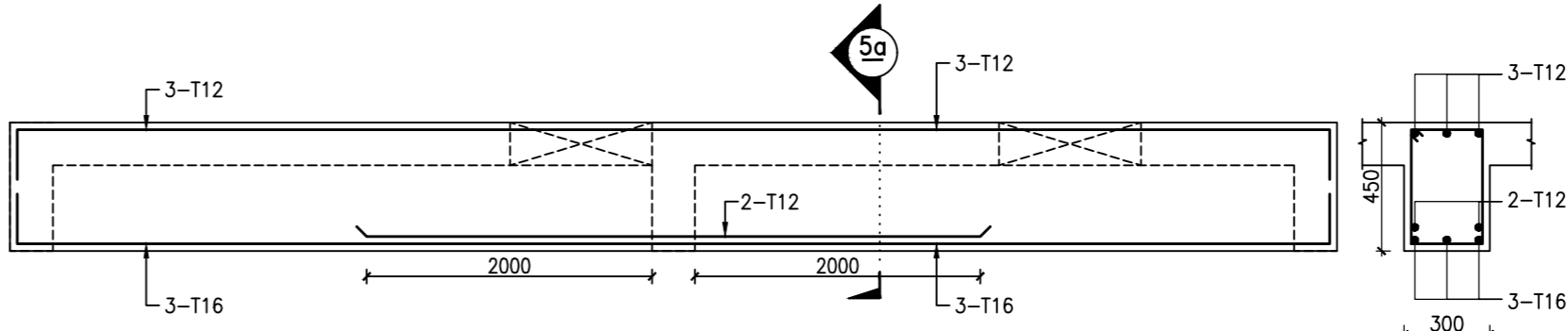
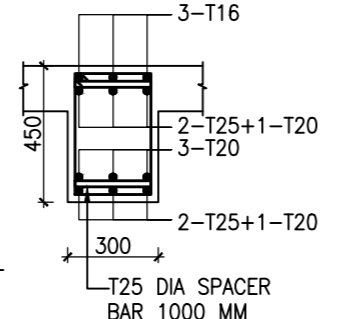
SEC. 3a
SCALE-1:25



T10	T8	T10
100	100	100
10	REST	10

B4

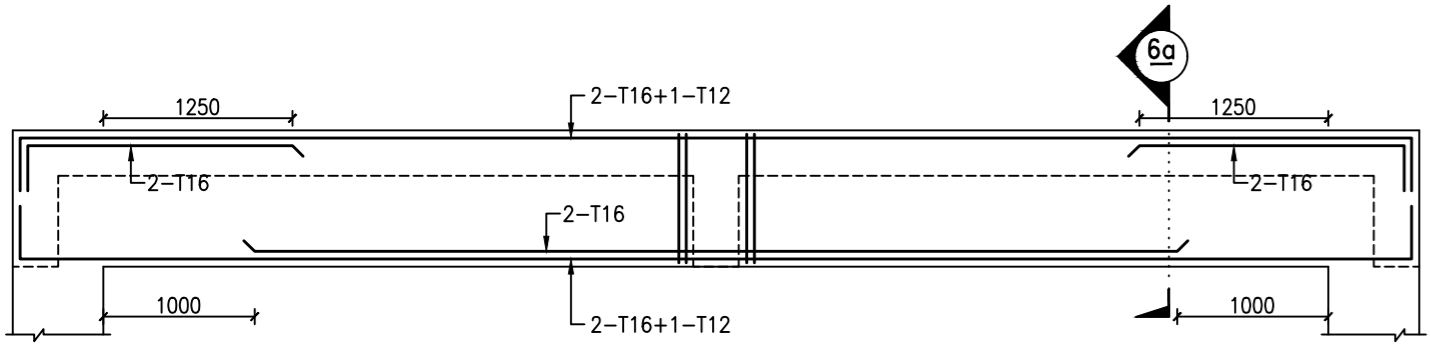
SEC. 4a
SCALE-1:25



T8	T8
150	150
ALL	ALL

B5a B5b

SEC. 5a
SCALE-1:25



T8	T8	T8
100	150	100
10	REST	10

B6

SEC. 6a
SCALE-1:25

NOTES :

LEGENDS AND ABBREVIATIONS:

CONSULTANTS:
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 Ph.: +919825099046
 E-mail : strucart.design@gmail.com

REVISION AND ISSUE:

R. NO.	DATE	REMARKS
RO	28-02-23	ISSUED FOR EXECUTION

FOR EXECUTION

DRAWING: STRUC. LAYOUT AT TIE LEVEL (+3150)

DRAWING NO: S05

SCALE: 1:100,1:25 DATE :28 FEB 2023

DRAWN: RAVI CHECKED: BHAIKAV

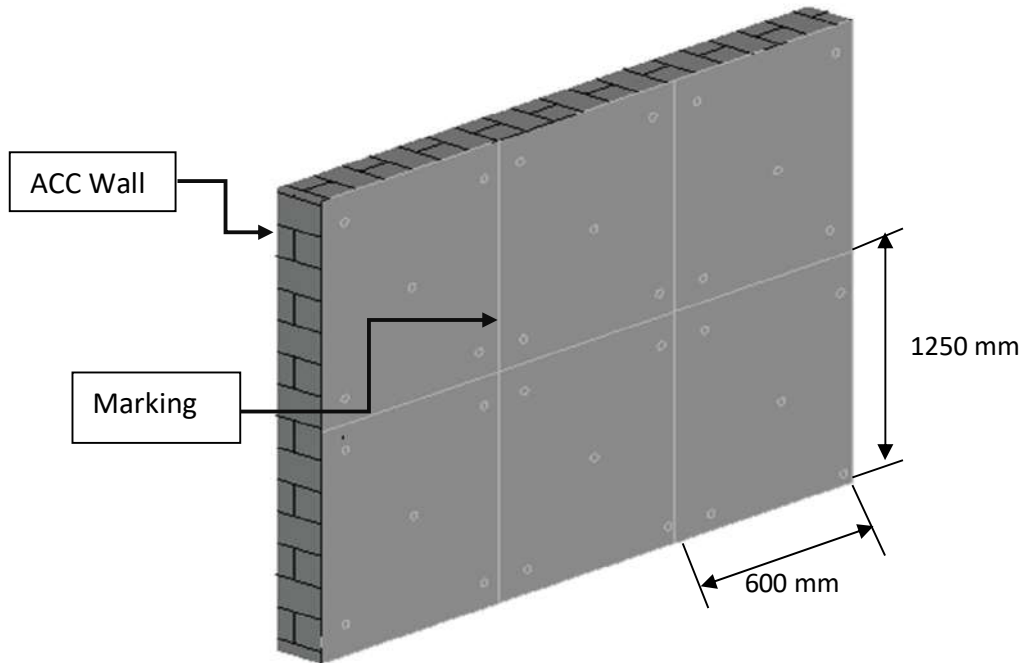
SIGNATURE AND SEAL :

LECT EXTENSION (CEPT UNIVERSITY)

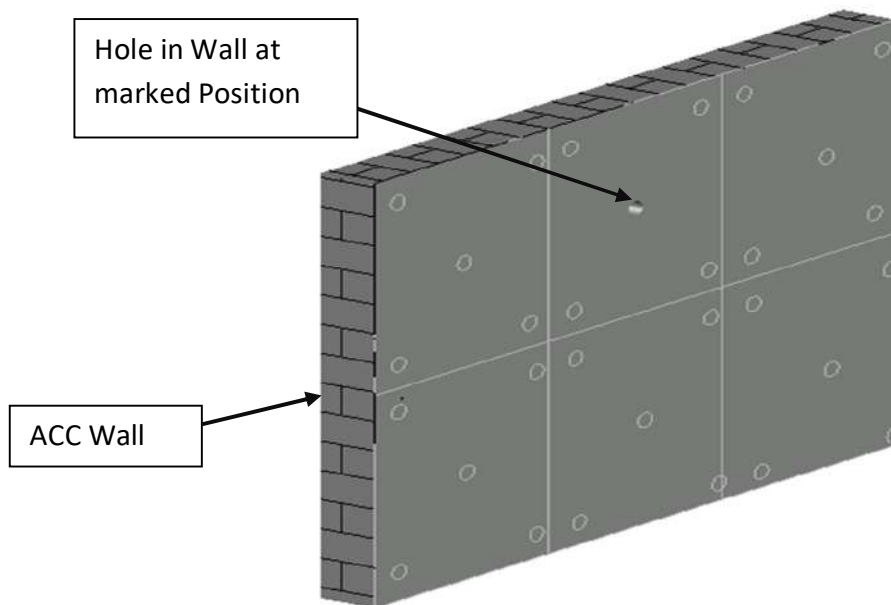
RO

I. Application methodology of ACC wall insulation with XPS Boards:

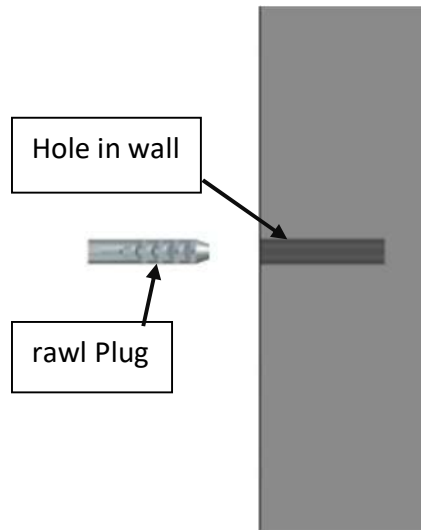
1. **MARKING:** It is done with the help of thread & chalk (Conventional Method). Size of marking is as per the material size (600mm * 1250mm) to avoid material wastage.



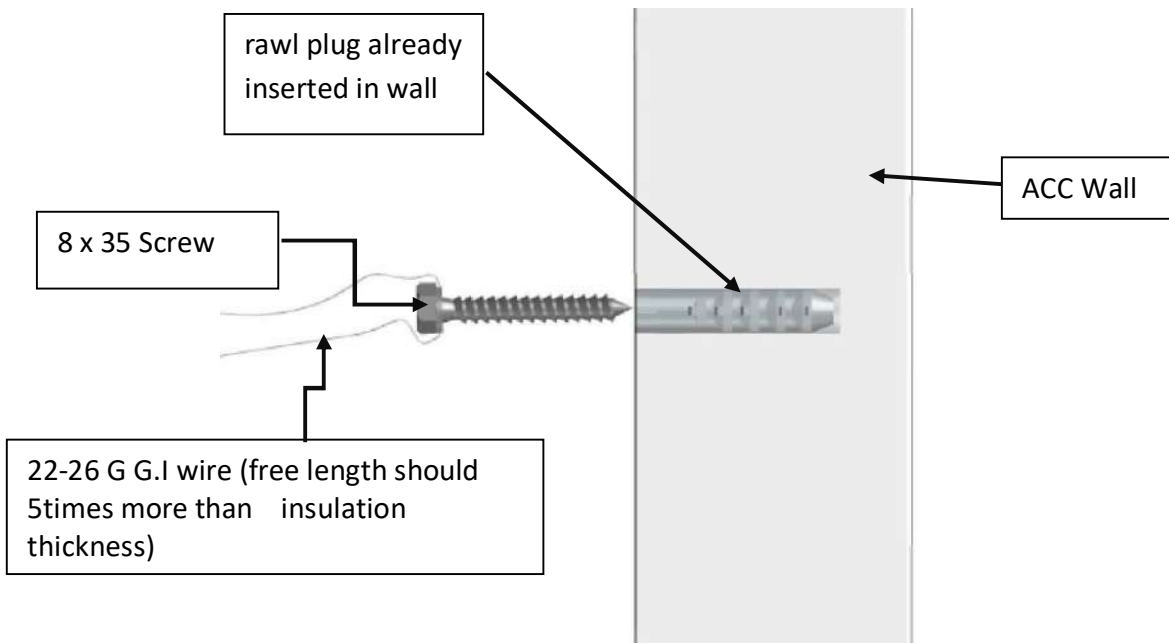
2. **DRILING:** Drilling at the marking point with the help of 5 mm drill bit



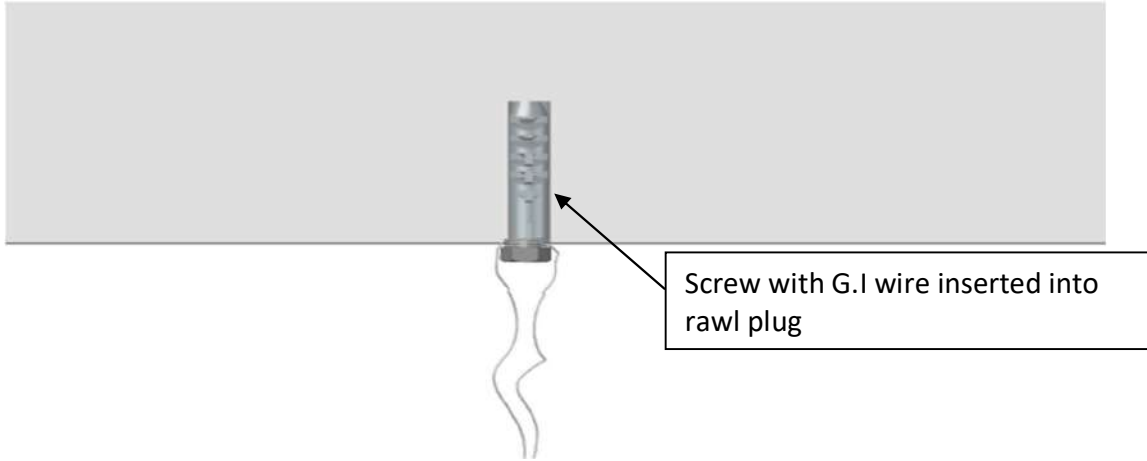
3. Fixing rawl plug with the help of Ball Pin Hammer inside the drilled hole to support the screw and to ensure the tightness.



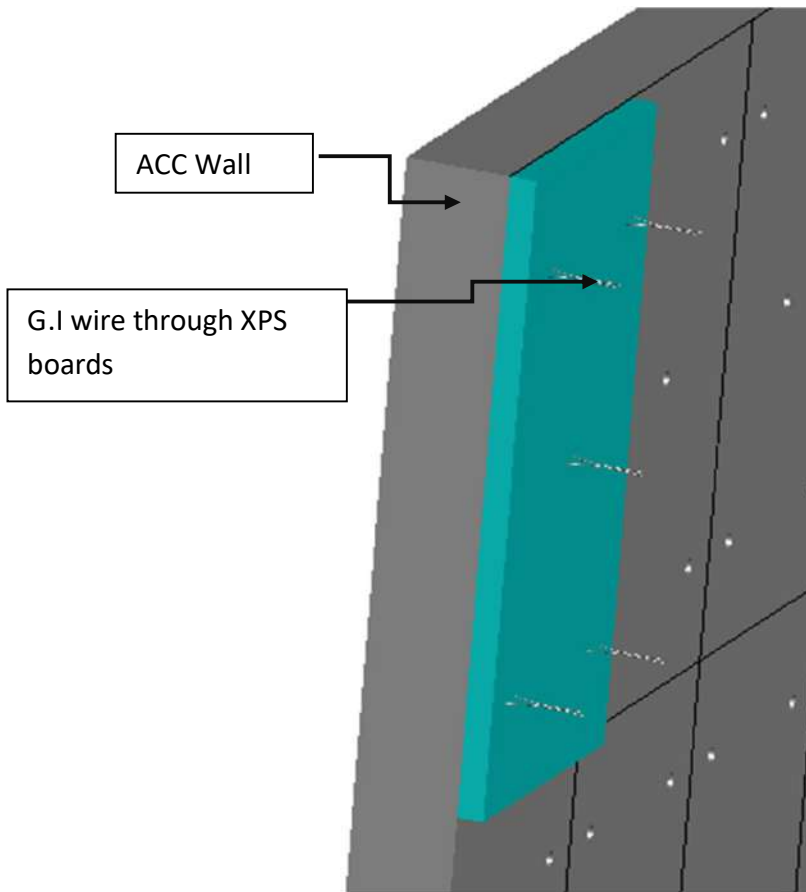
4. GI Wire of 22 to 26 G is to be cut and taken out via Screw (8X35) which is inserted for supporting the **XPS Insulation**- the size of it is 5 times of the thickness.



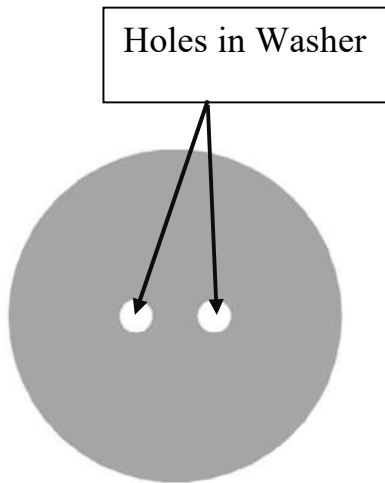
5. Fix the Flat Head Screw (8 NOS X 35Length) inside the rawl plug with the help of Ball Pin Hammer.



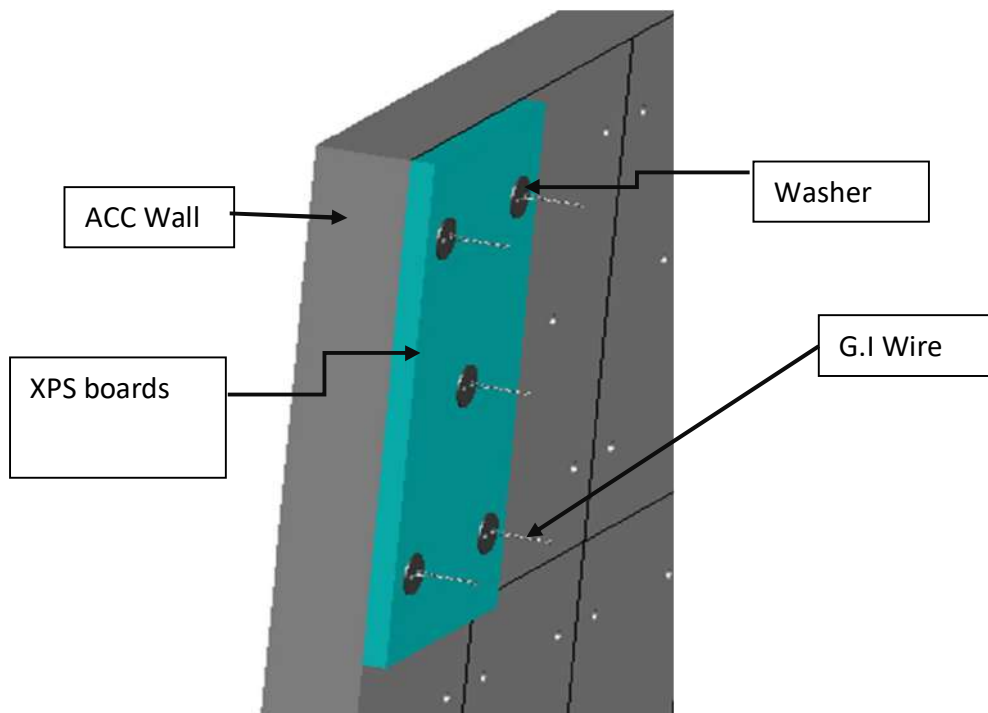
6. Adjusting & fixing of **XPS boards** according to the fixed screw & taking out G.I wire from inside the insulation material.



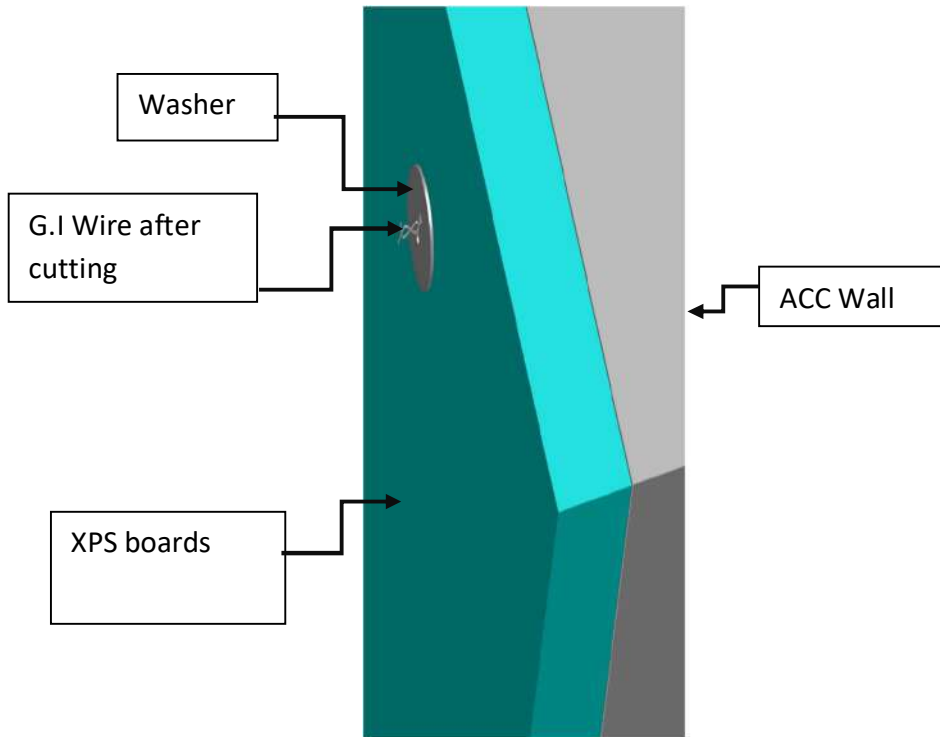
7. Holes are made into the washer.



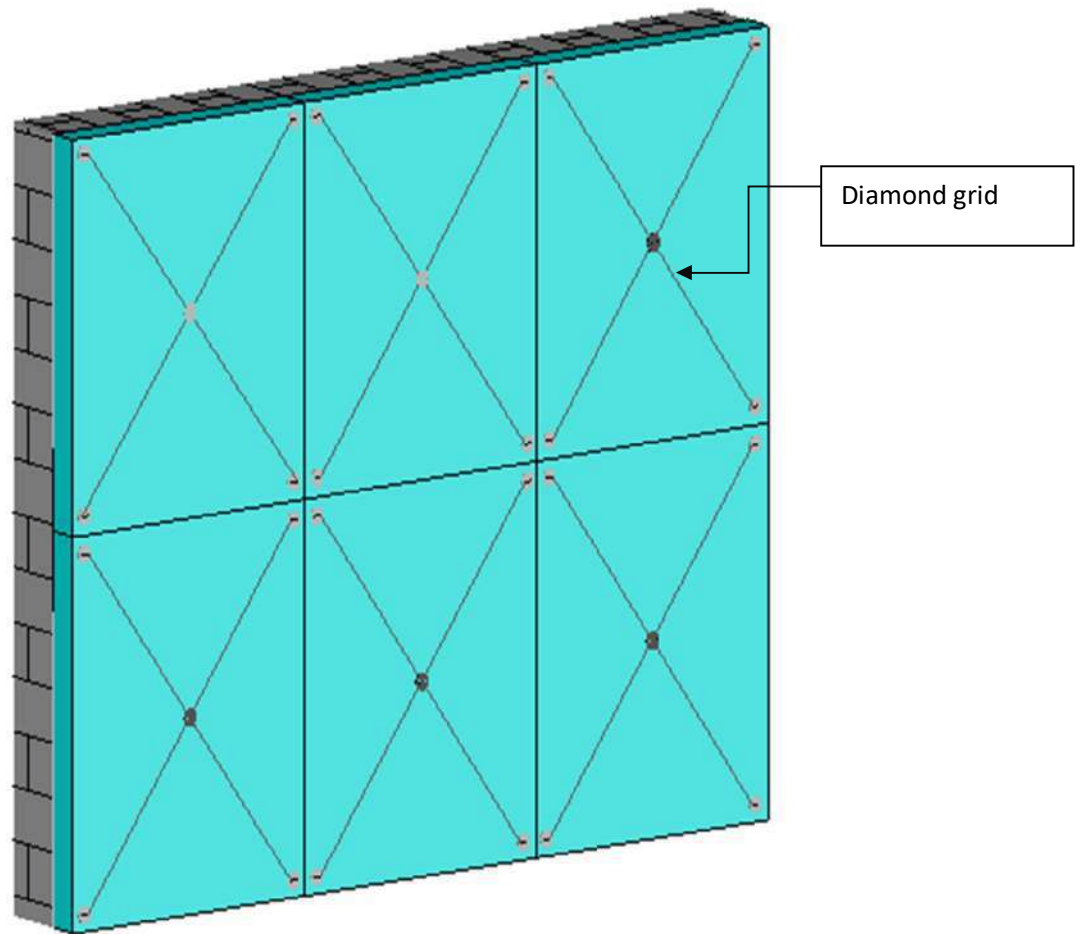
8. Same washers are fixed with GI wire coming out from **XPS boards** & press the washer until material properly fixed with the Wall & then twist the G.I wire.



9. Now cut the excess GI wire after twisting.

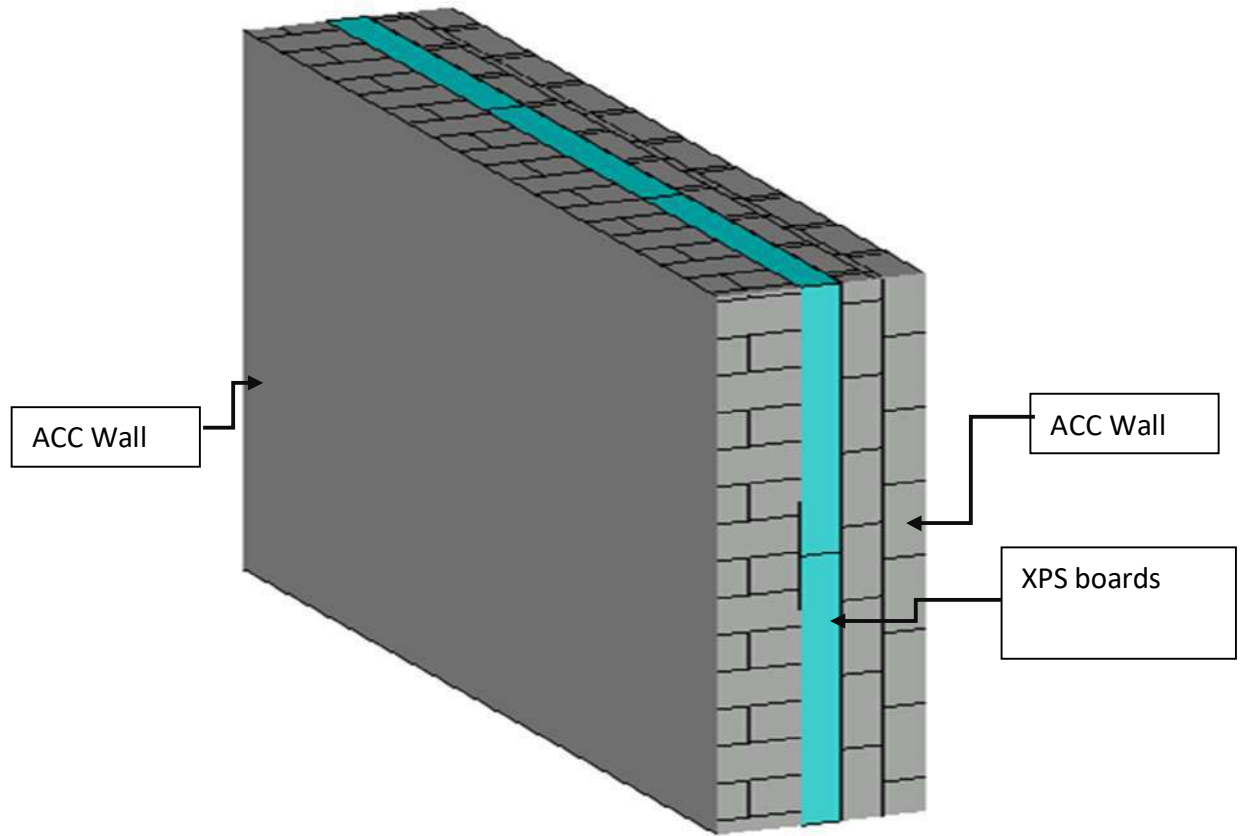


10. We specially design the diamond shape by fixing the GI Wire diagonally through each piece, which ensures no air gap is left between **XPS boards** & Wall and also by this diagonal shape we get aesthetic look.



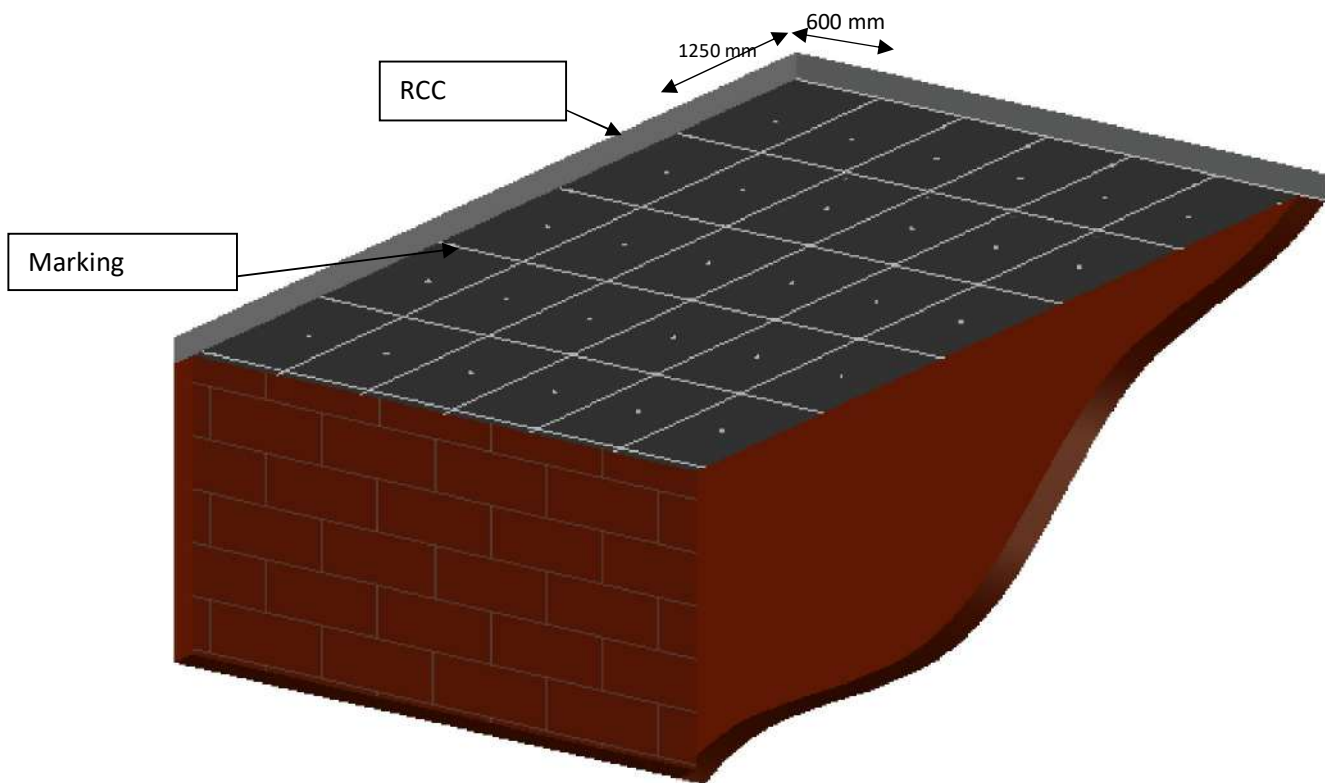
11. As a final finishing layer construct an ACC wall above XPS from the plinth level.

Annexure: Drawings for fixing the Insulations

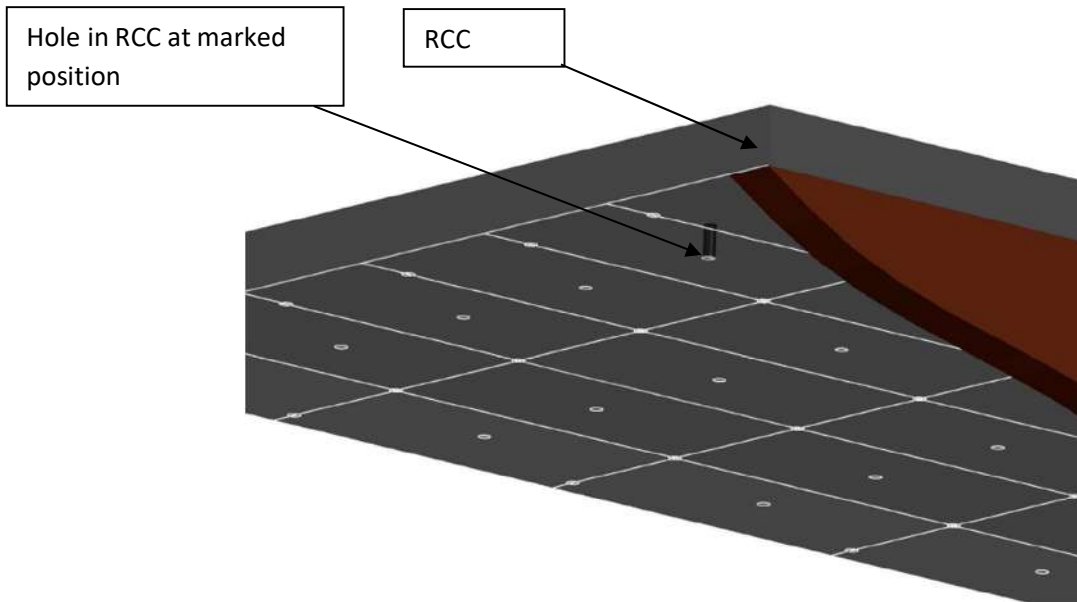


II. APPLICATION METHODOLOGY OF UNDERDECK INSULATION WITH INFOAM XPS & AIR BUBBLE BELOW RCC SLAB:

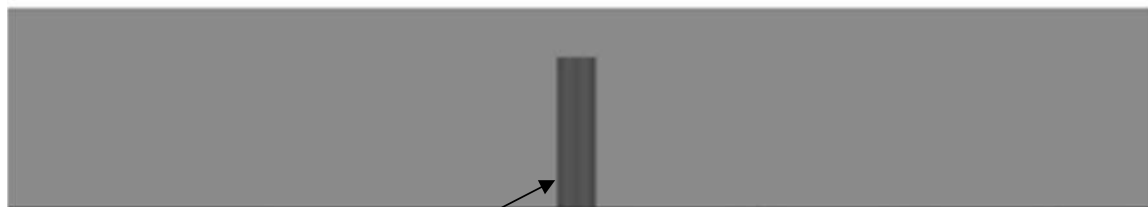
1. **MARKING:** It is done with the help of thread & chalk (Conventional Method). Size of marking is as per the material size (length & width) to avoid material wastage.



2. **DRILING:** Drilling at the marking point with the help of 5 mm drill bit.



3. Fixing rawl plug with the help of Ball Pin Hammer inside the drilled hole to support the screw and to ensure the tightness.

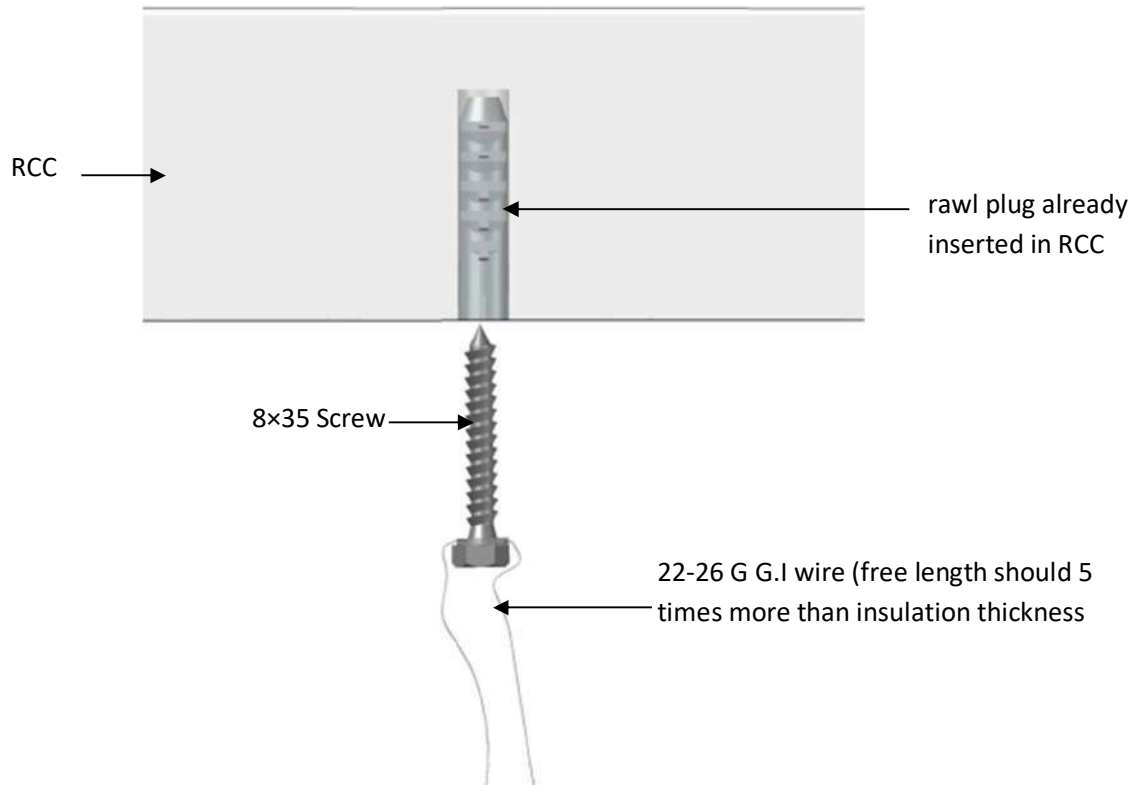


Hole in RCC

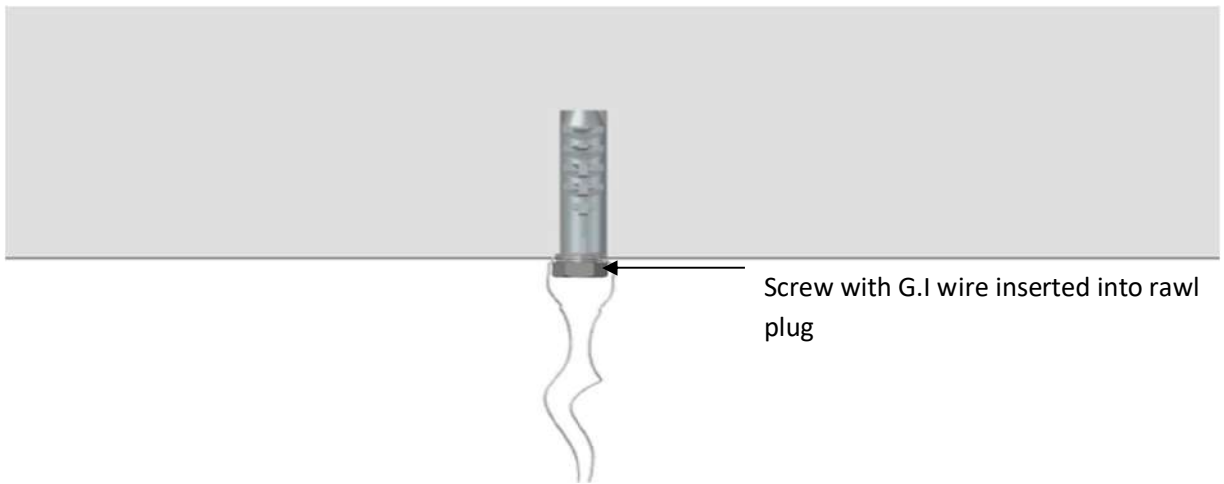
rawl Plug



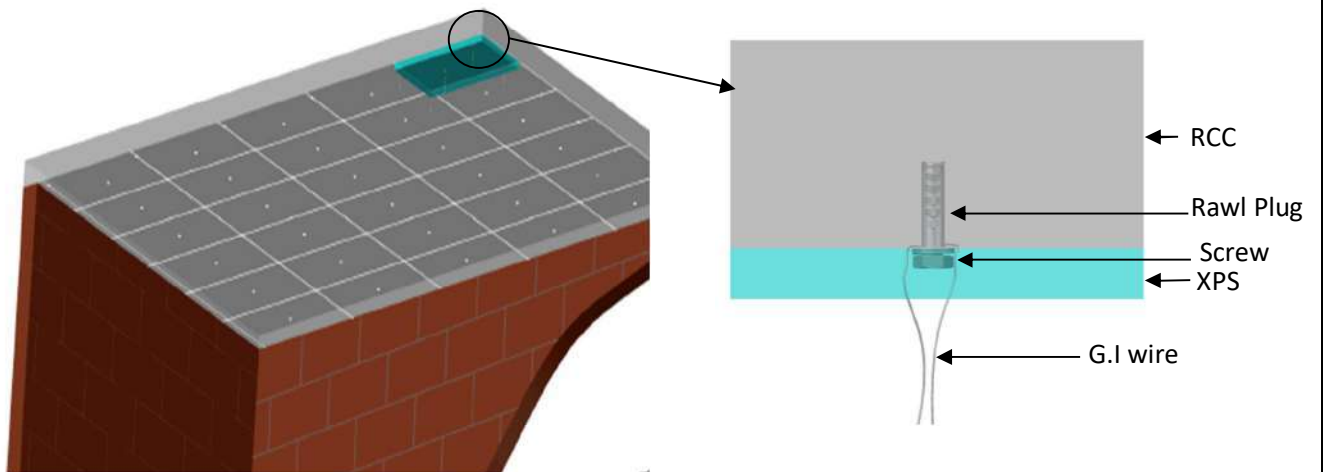
- GI Wire of 22 to 26 G is to be cut and taken out via Screw (8X35) which is inserted for supporting the XPS Insulation- the size of the is 5 times of the thickness. (This has to be done at ground).



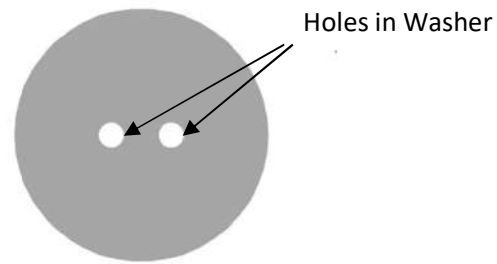
- Fix the Flat Head Screw (8 NOS X 35Length) inside the rawl plug with the help of Ball Pin Hammer.



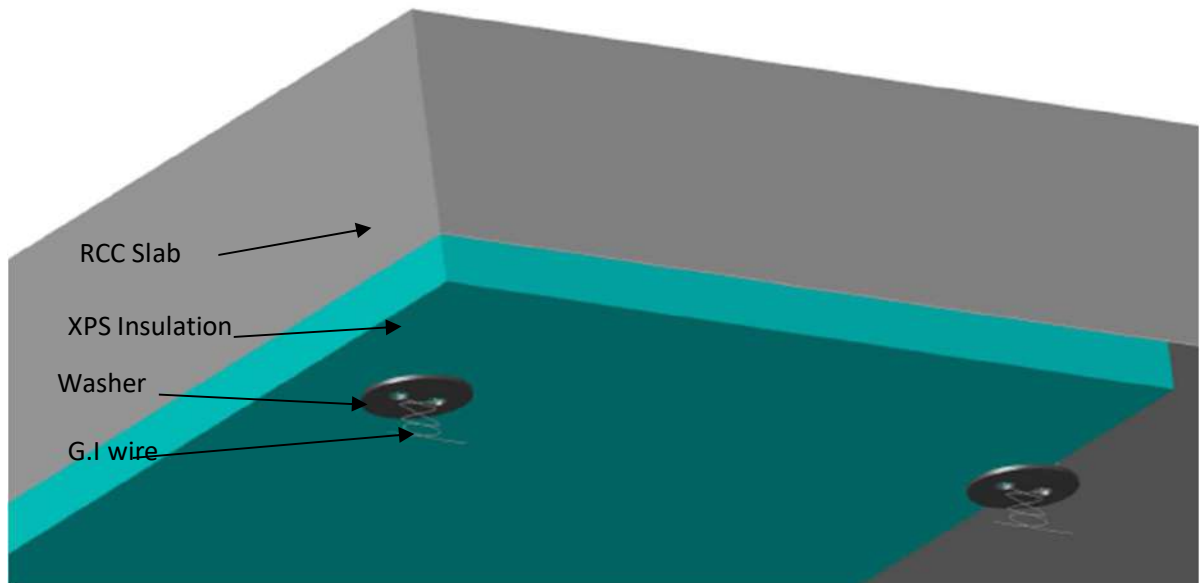
6. Adjusting & fixing of XPS boards according to the fixed screw & taking out G.I wire from inside the insulation material.



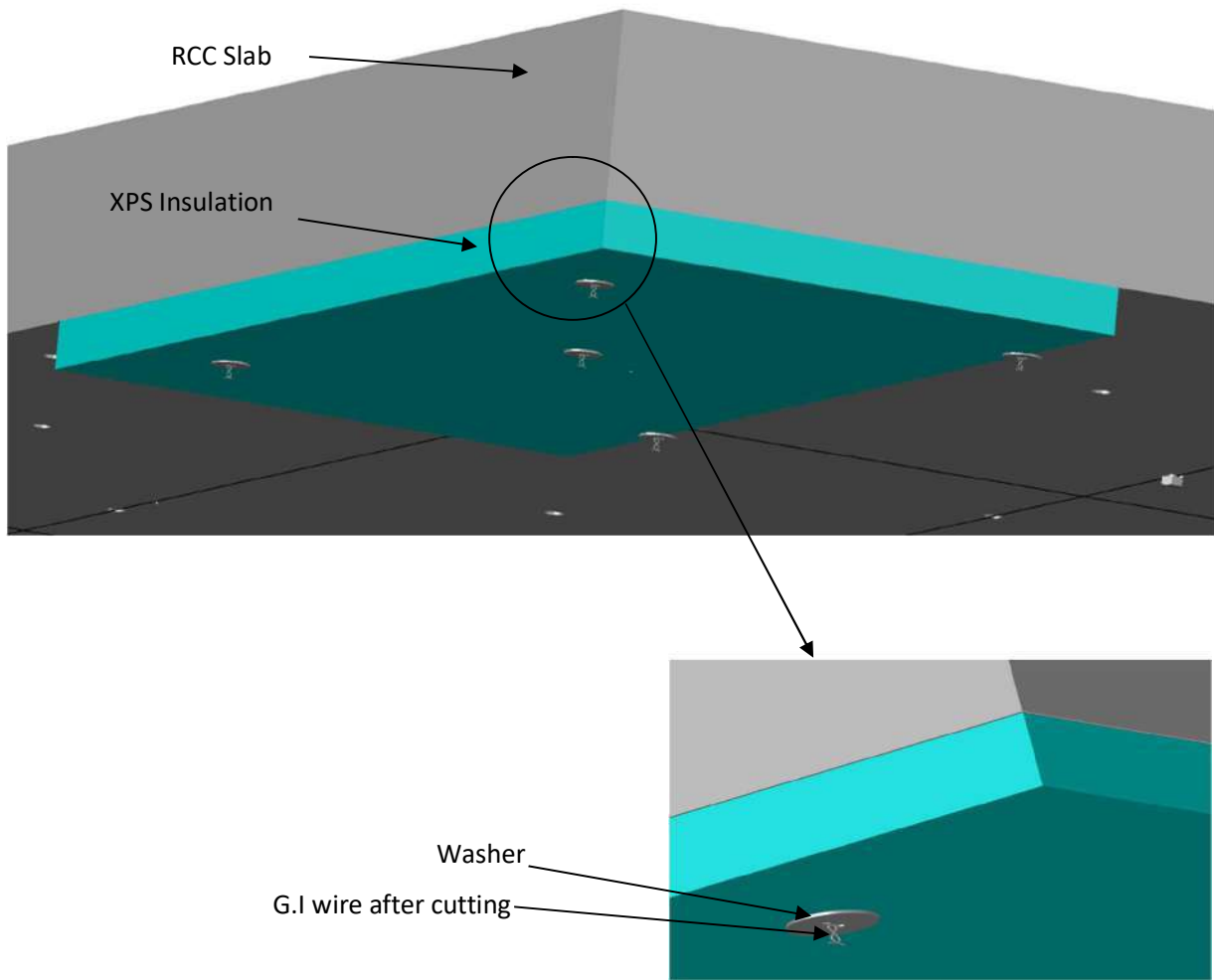
7. Holes are made into the washer.



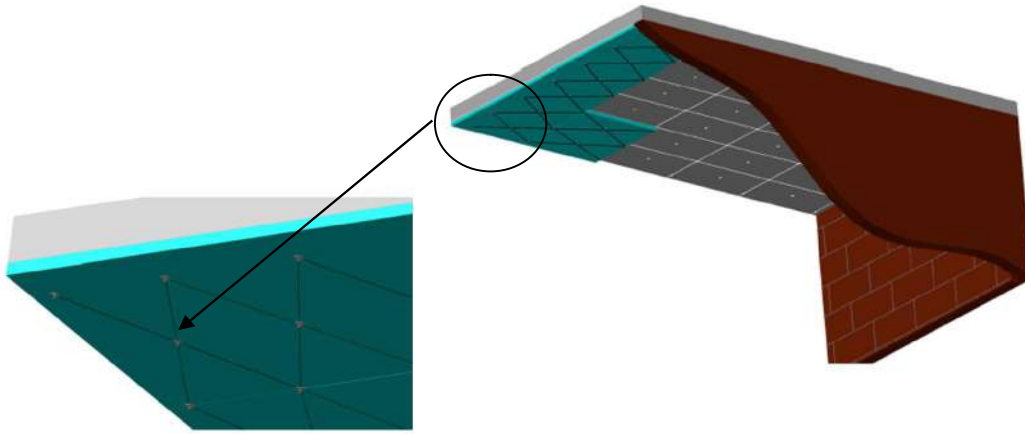
8. Same washers are fixed with GI wire coming out from XPS board & press the washer until material properly fixed with the RCC slab & then twist the G.I wire.



9. Now cut the excess GI wire after twisting.

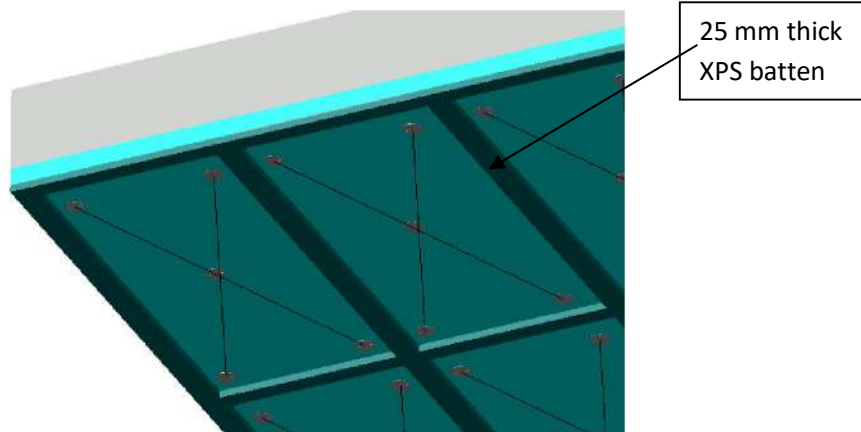


10. We specially design the diamond shape by fixing the GI Wire diagonally through each piece, which ensures no air gap is left between XPS board & RCC Slab and also by this diagonal shape we get aesthetic look.

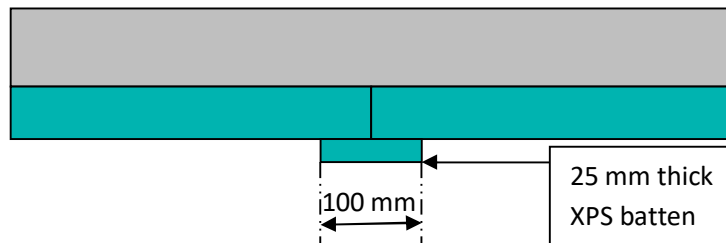


G.I wire Diamond grid

11. Below it XPS batten having 100 mm width 25 mm depth shall be fixed at the joints of two XPS board with the hap of resin & hardener or with the help of screw.



25 mm thick XPS batten



25 mm thick XPS batten

100 mm

12. Below it 8 mm air bubble insulation sheet shall be fixed with XPS batten with the help of screw or adhesive. Before fixing the air bubble sheet, two air bubble sheet shall be staples with 1 inch overlap.

