

Government of Nepal
National Reconstruction Authority
Central Level Project Implementation Unit (EDU)
Gyaneshwor, Kathmandu

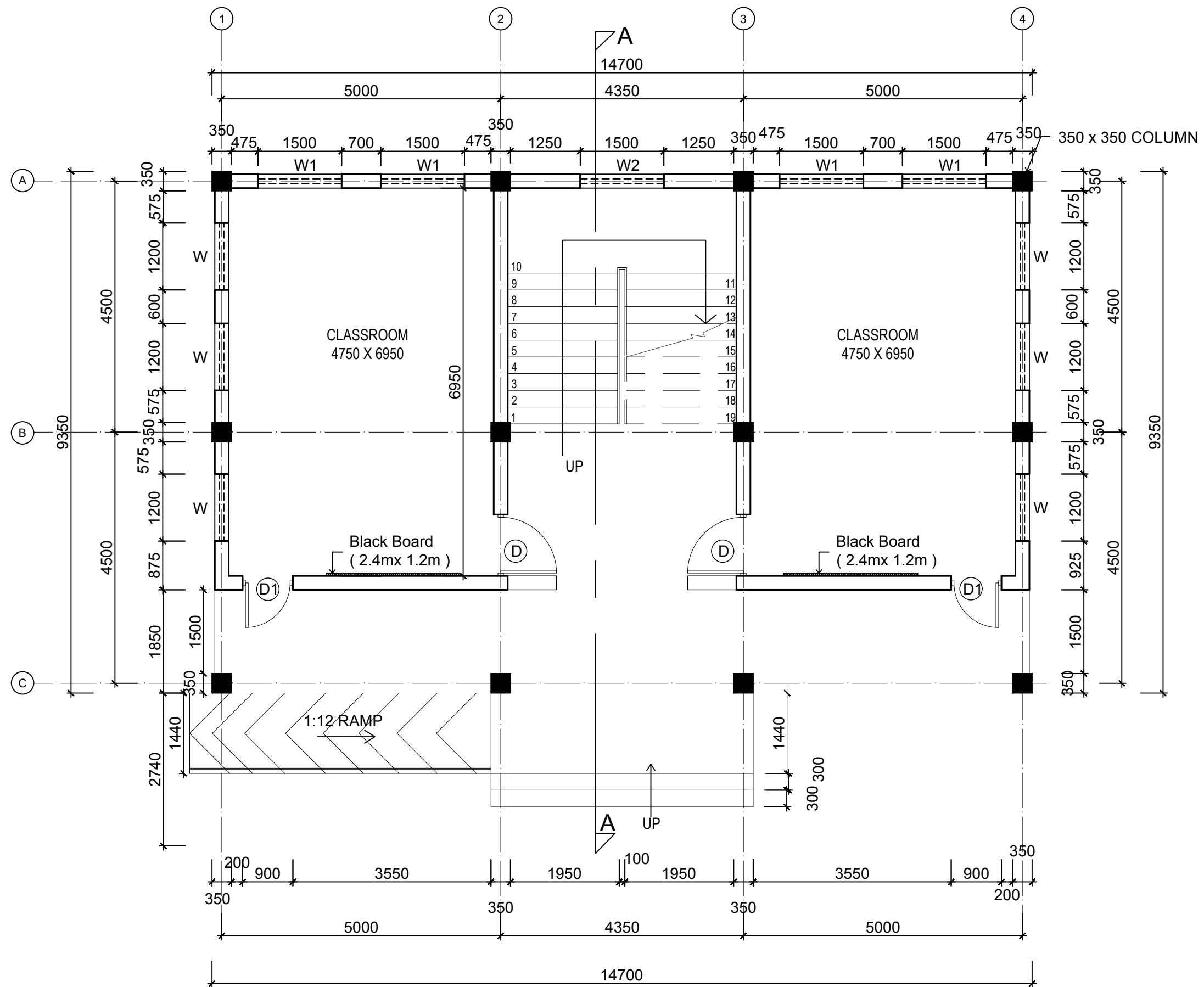
2 Storey 4 Classrooms

Revised (Oct 2018)

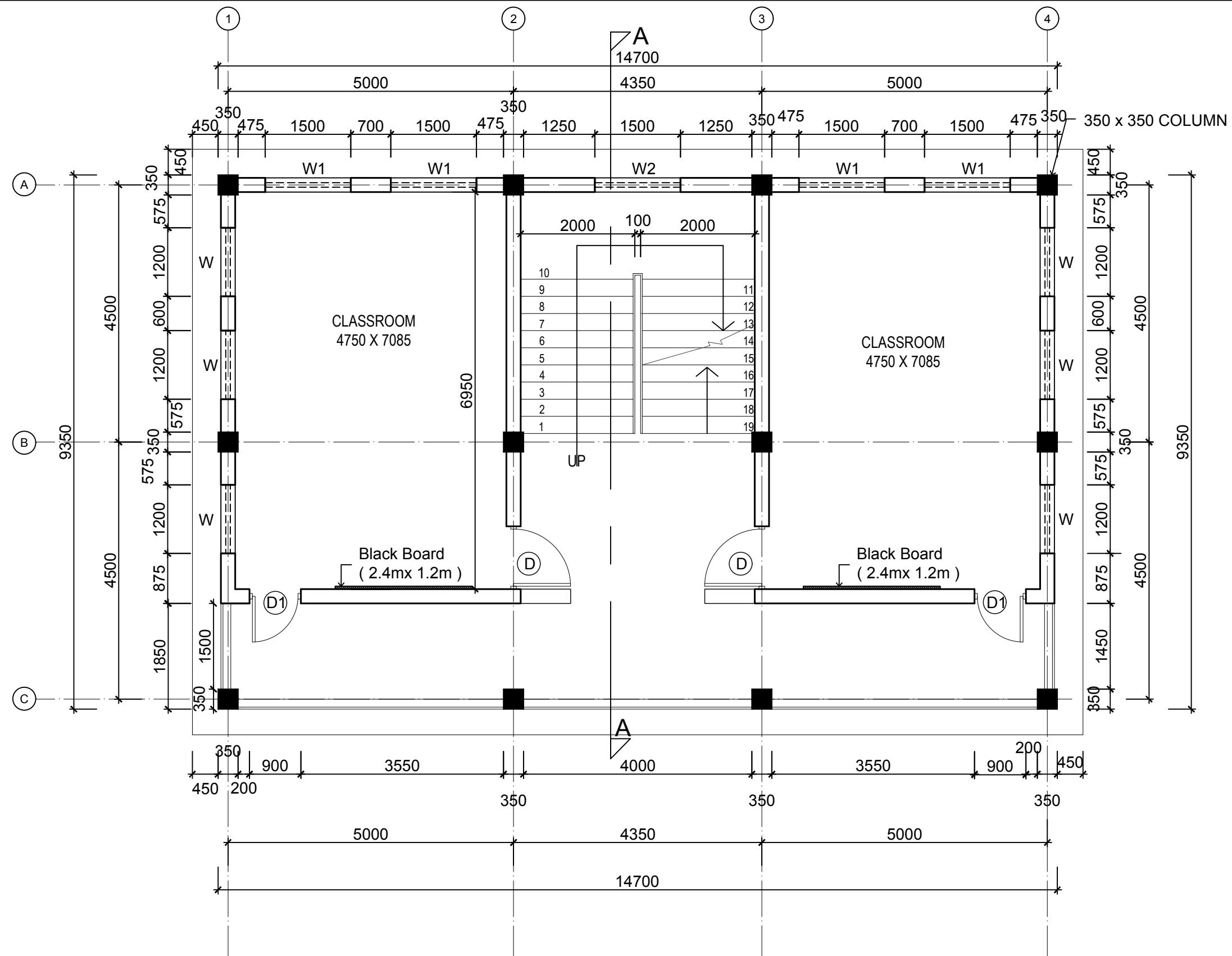


Revised (Oct 2018)

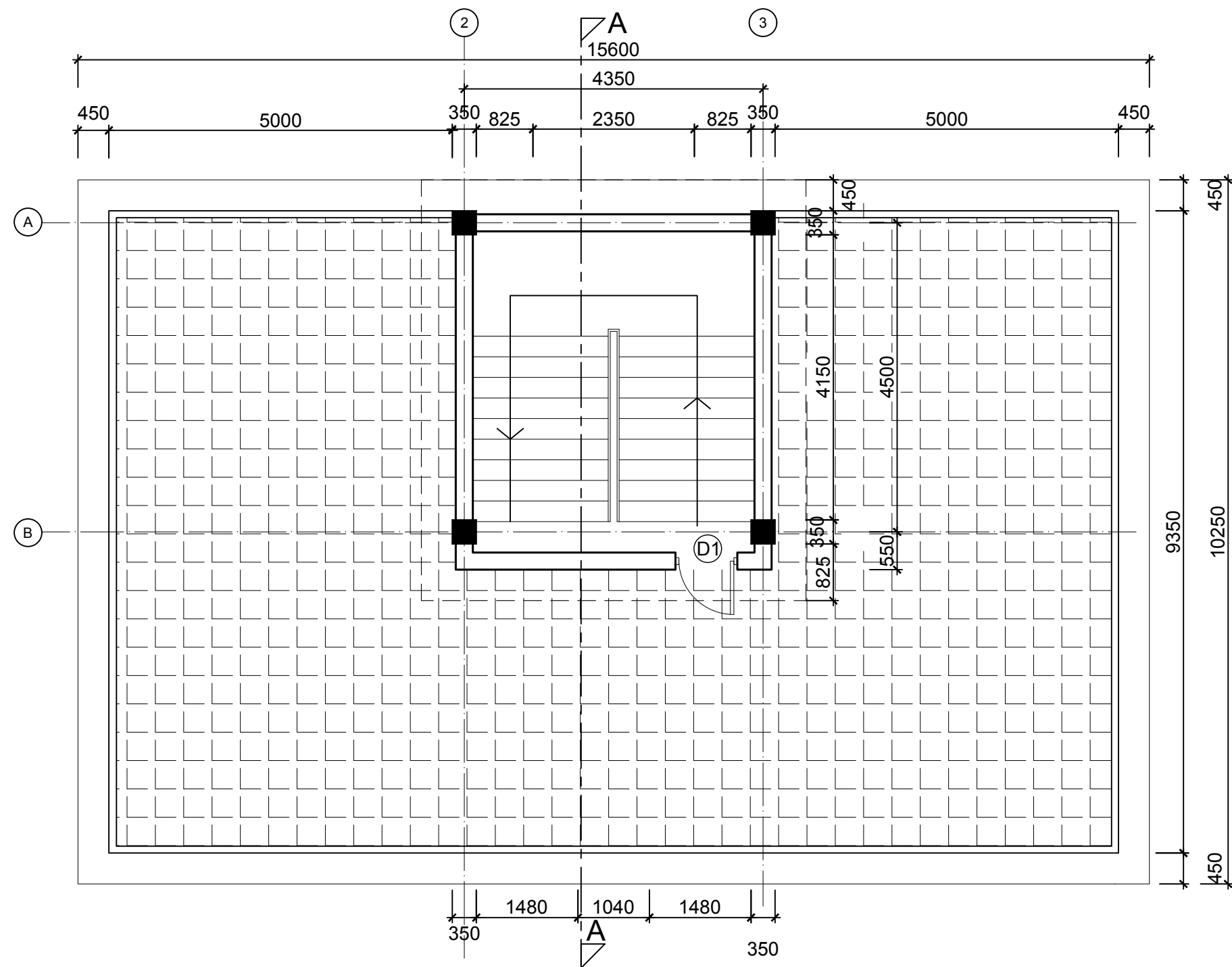
1. Slab plan
2. Beam plan
3. Foundation
4. Sec. Beam details



GROUND FLOOR PLAN

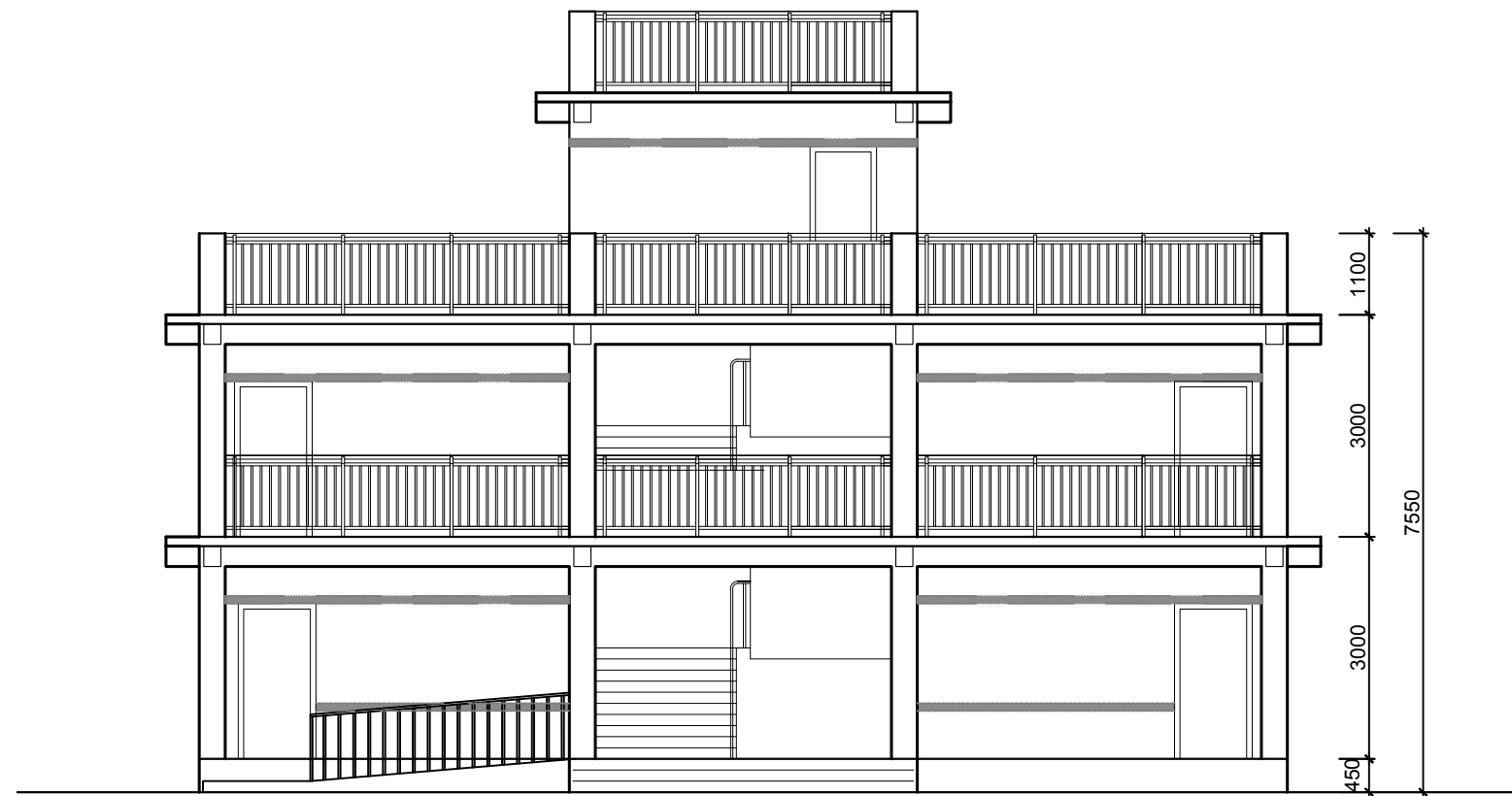


FIRST FLOOR PLAN



TOP FLOOR PLAN





FRONT ELEVATION



BACK ELEVATION



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PROJECT :
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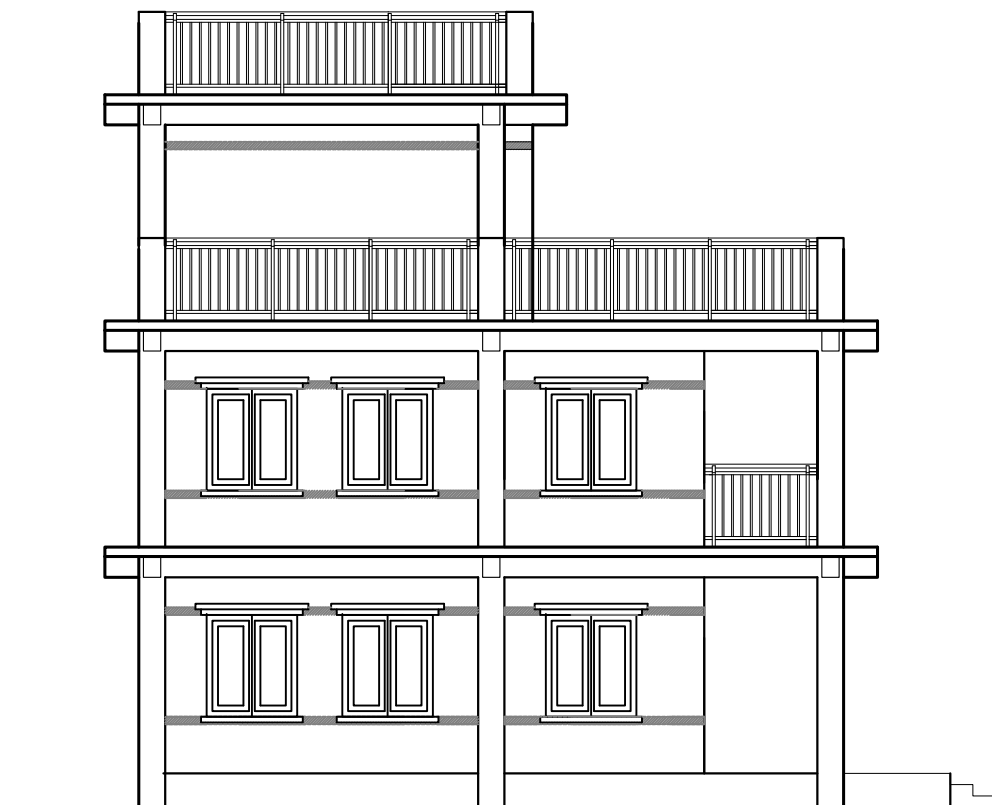
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ELEVATIONS

Date :
Scale : 1:100

Designed by :
Checked by :
Approved by :

Sheet No:

4



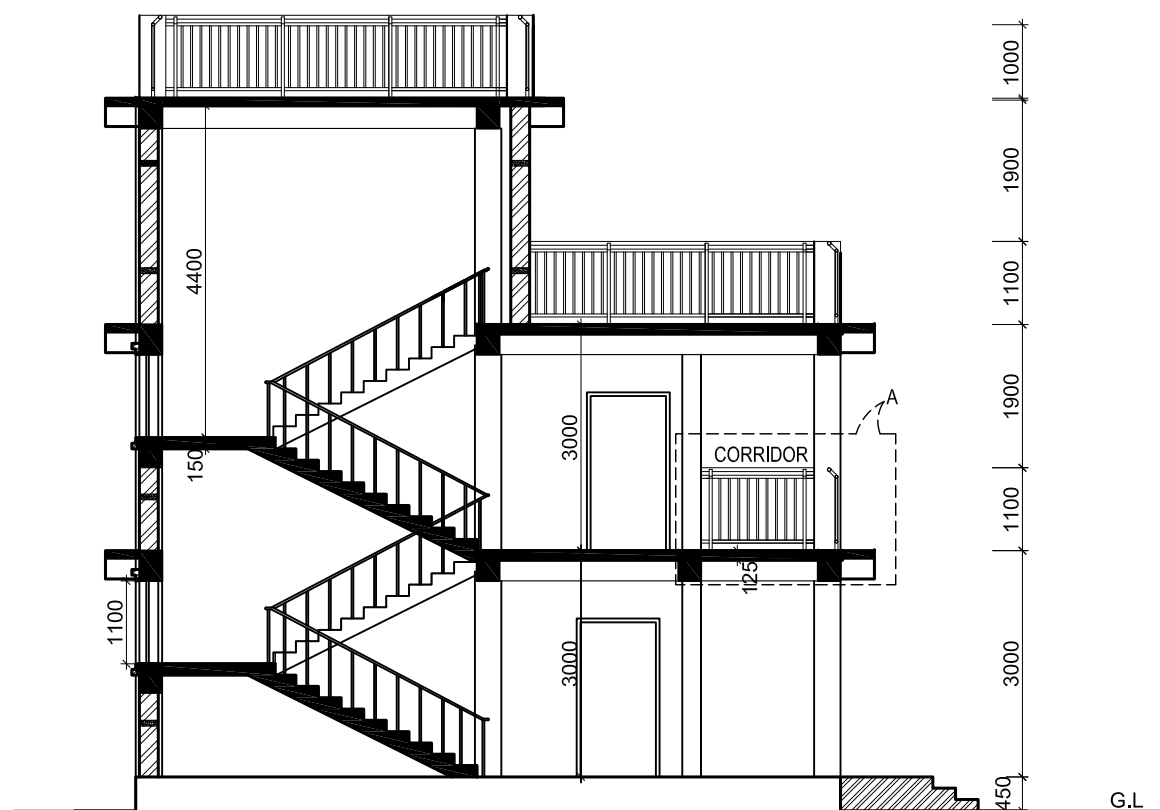
LEFT SIDE ELEVATION

Scale : 1:100



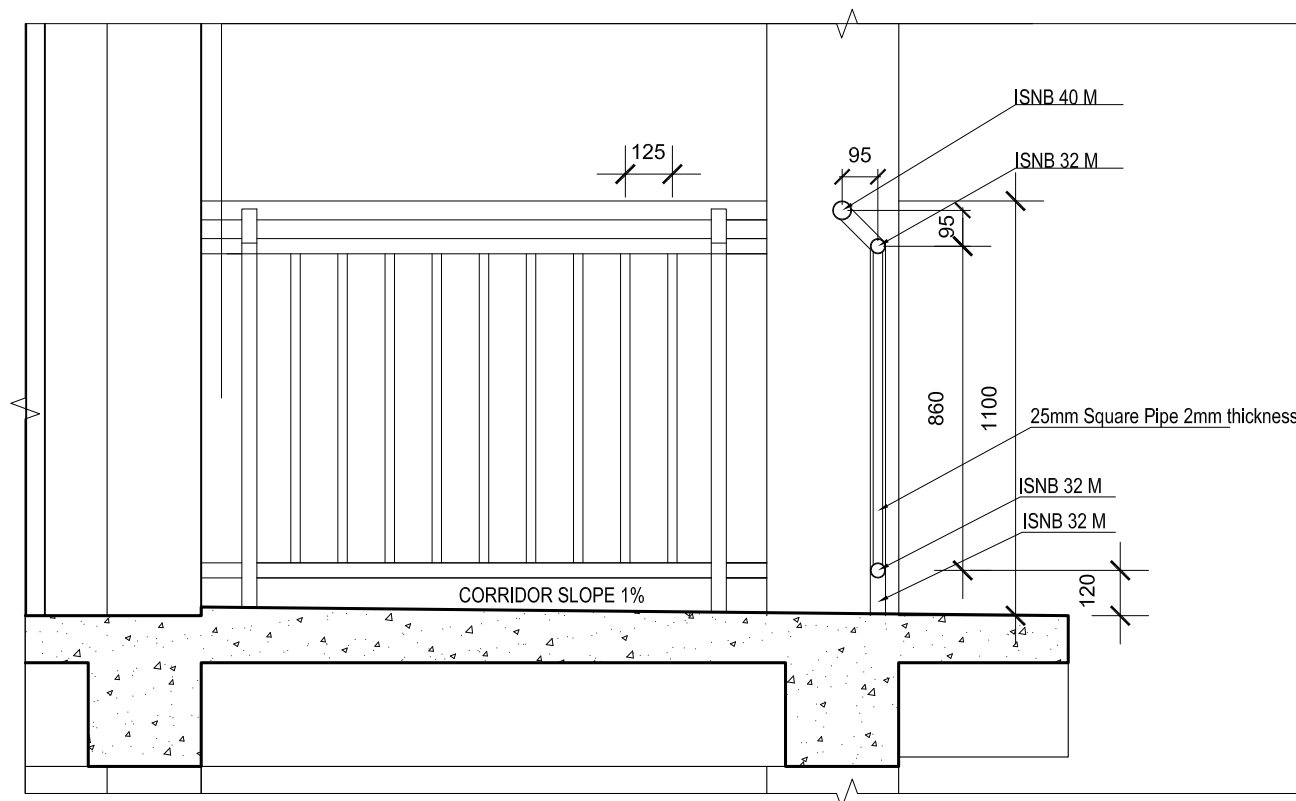
RIGHT SIDE ELEVATION

Scale : 1:100



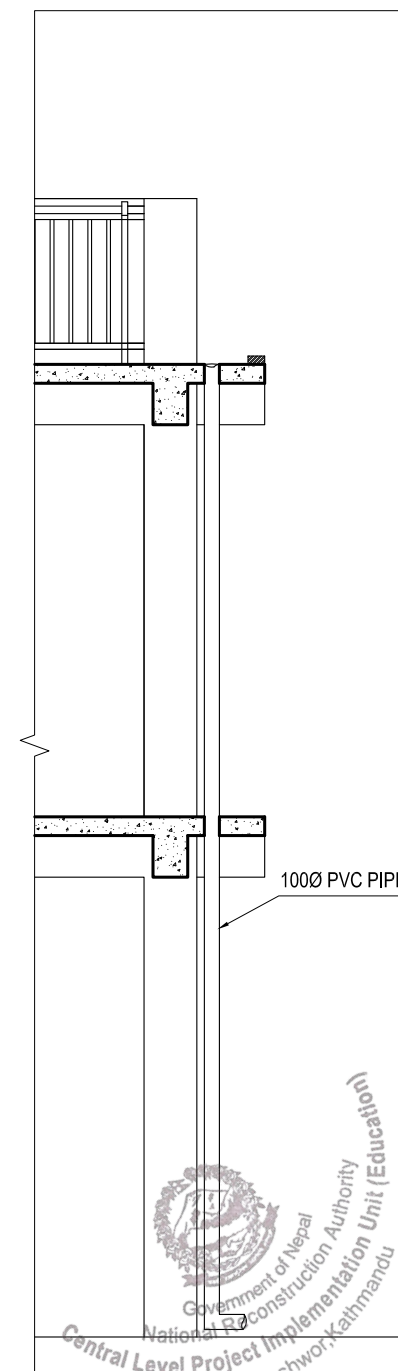
SECTION AT A-A

Scale : 1:100



DETAIL AT A

Scale : 1:20



DRAIN PIPE DETAIL

Scale : 1:50

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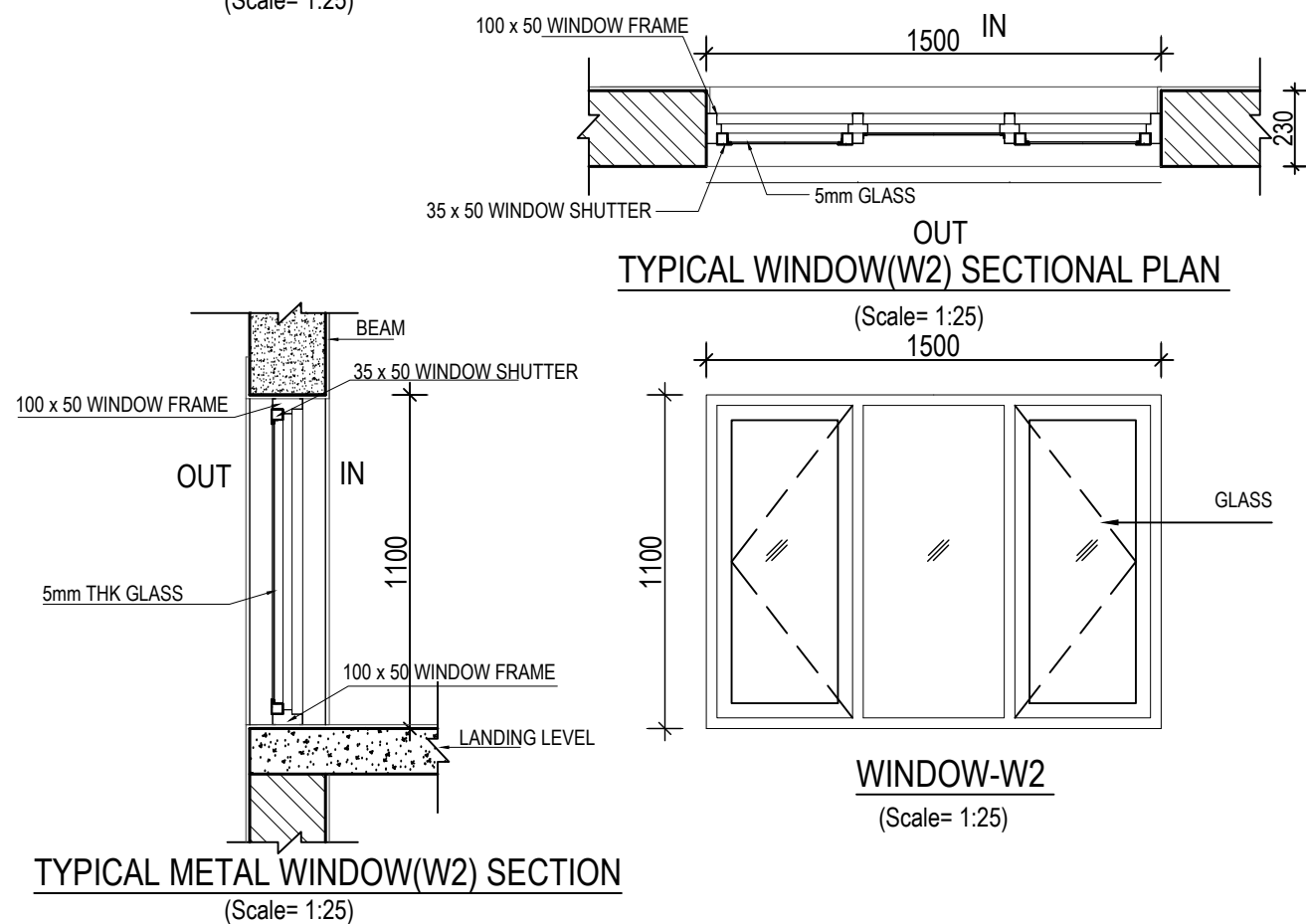
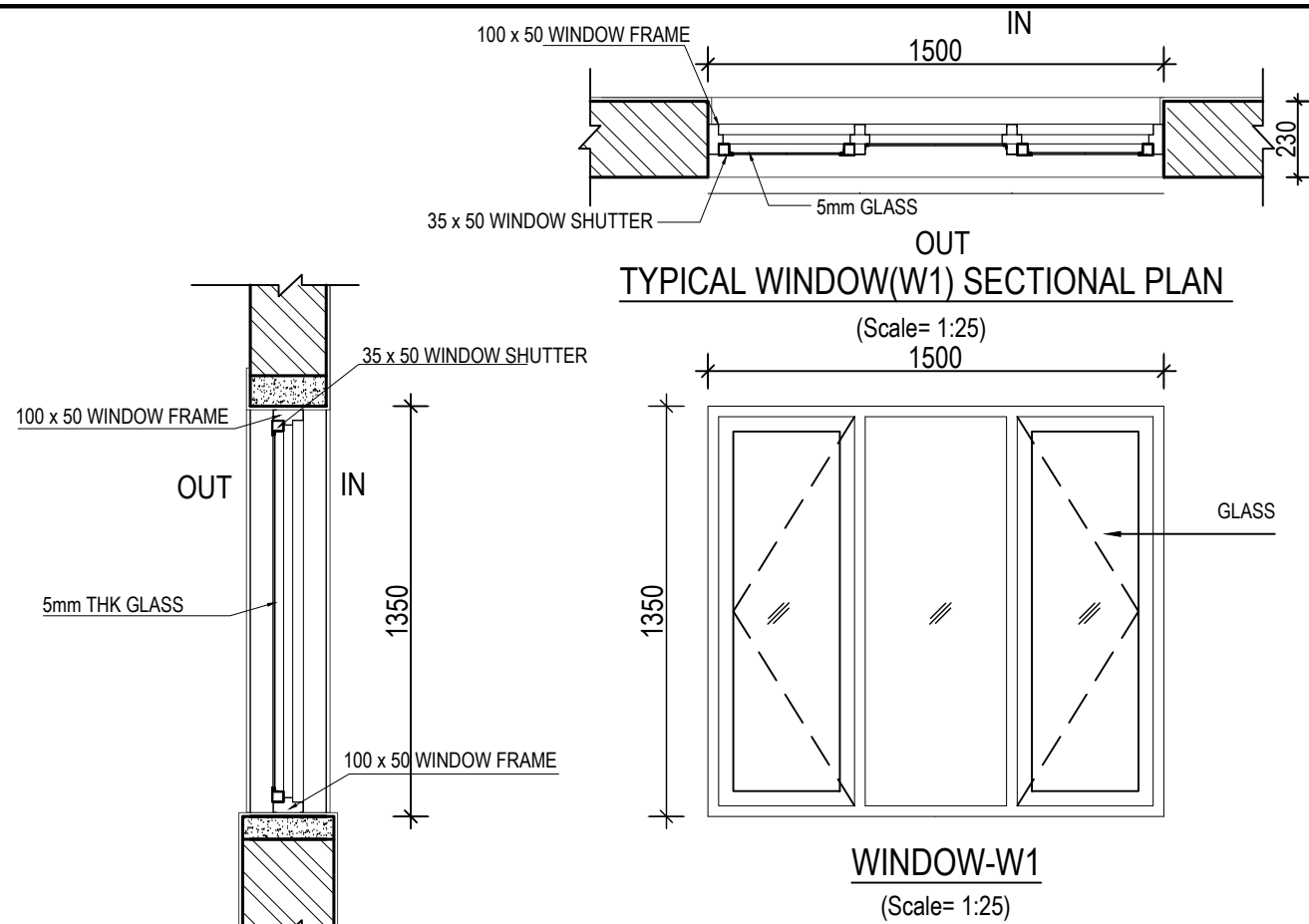
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ELEVATIONS AND
SECTION

Date :
Scale : As Mentioned

Designed by :
Checked by :
Approved by :

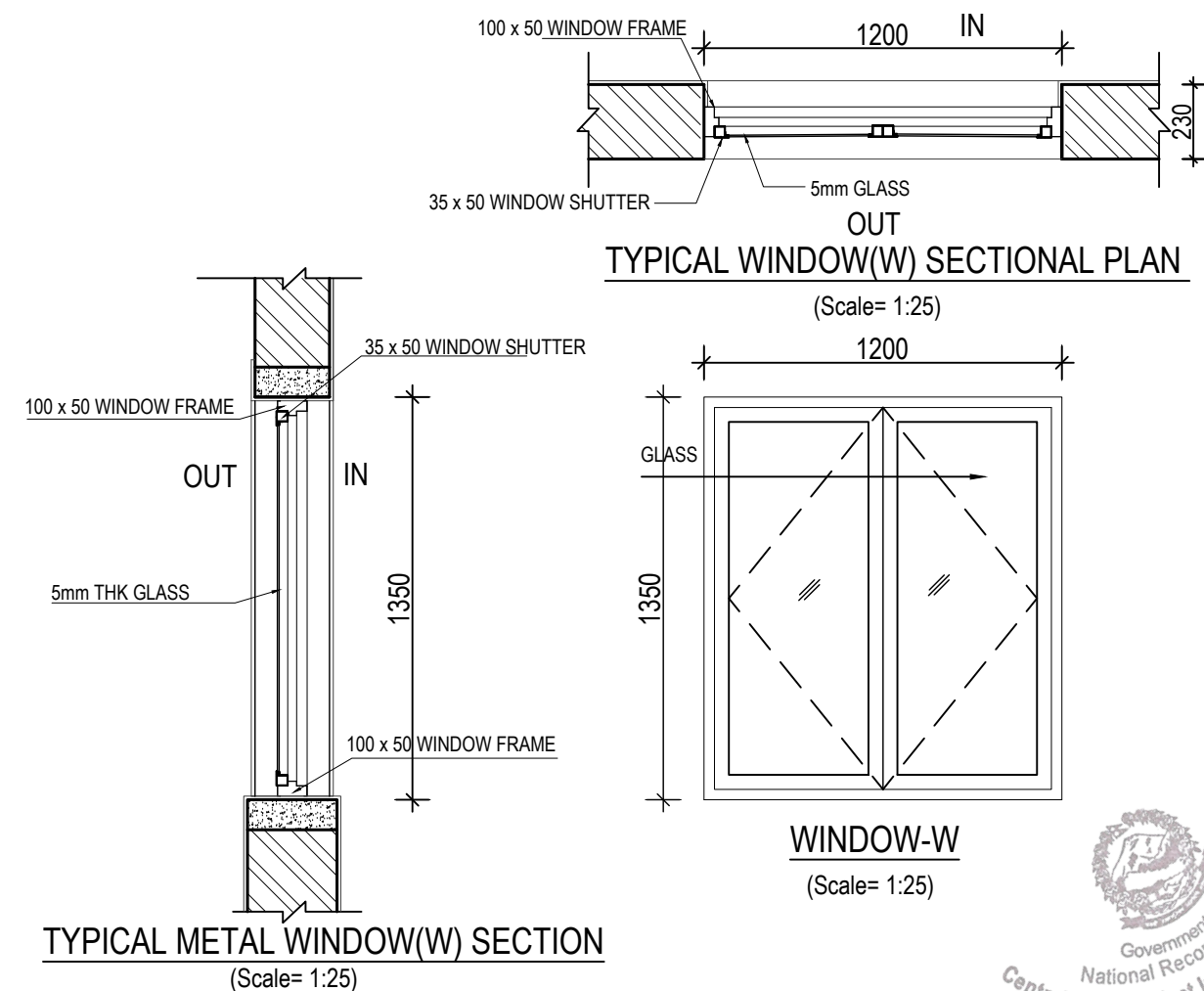
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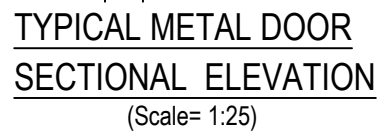
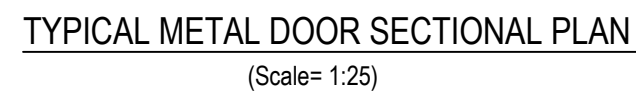
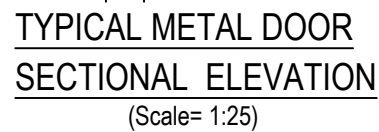
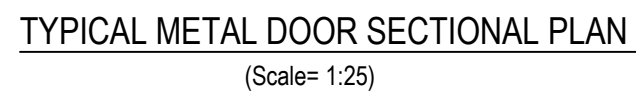
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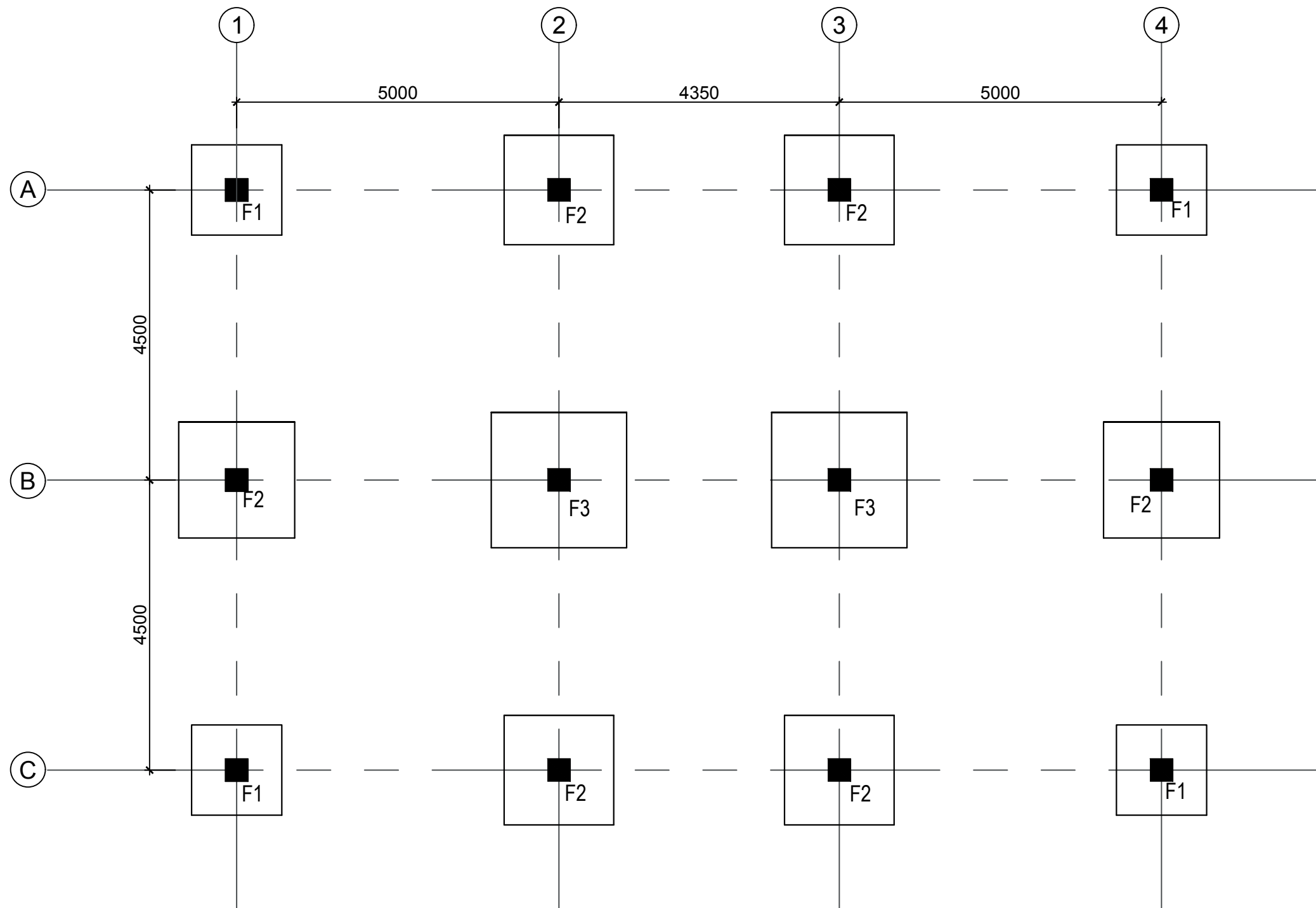


DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	G.F.	F.F.	S.F.	TOTAL
1.	W	1200 x 1350	6	6	-	12
2.	W1	1500 x 1350	4	4	-	8
3.	W2	1500 x 1100	1	1	-	2
4.	D	1100 x 2100	2	2	-	4
5.	D1	900 x 2100	2	2	1	5
TOTAL			15	15	1	31

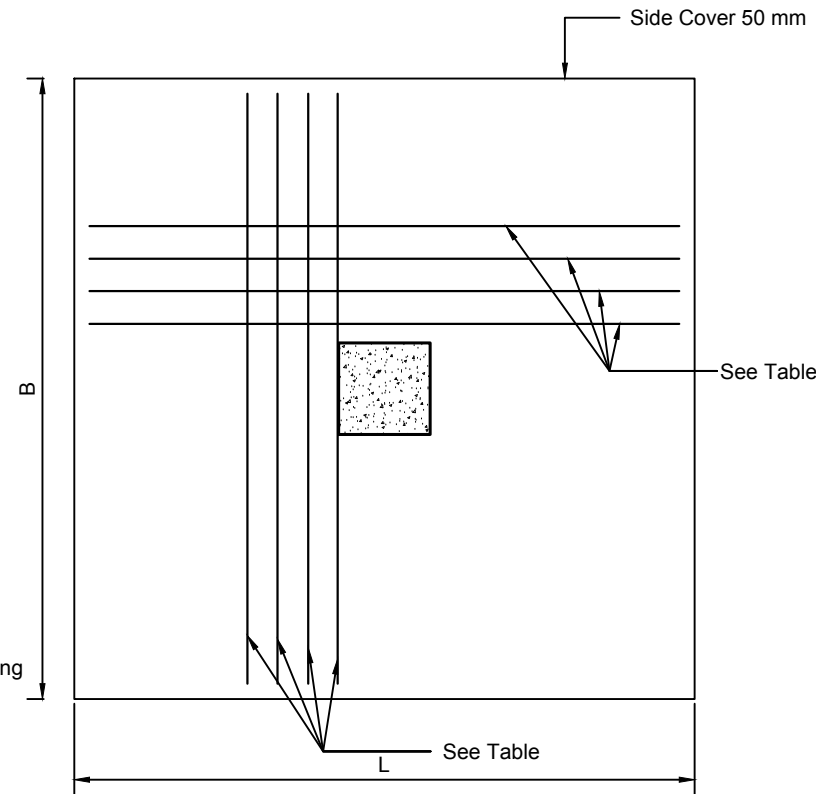




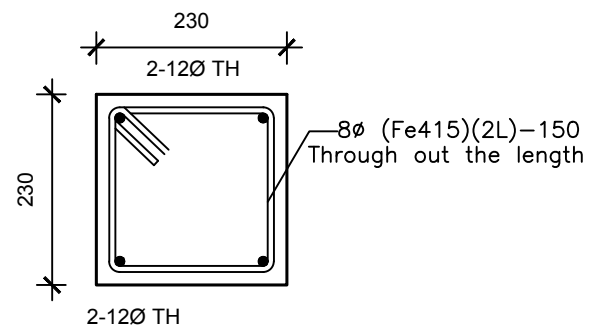


FOUNDATION PLAN





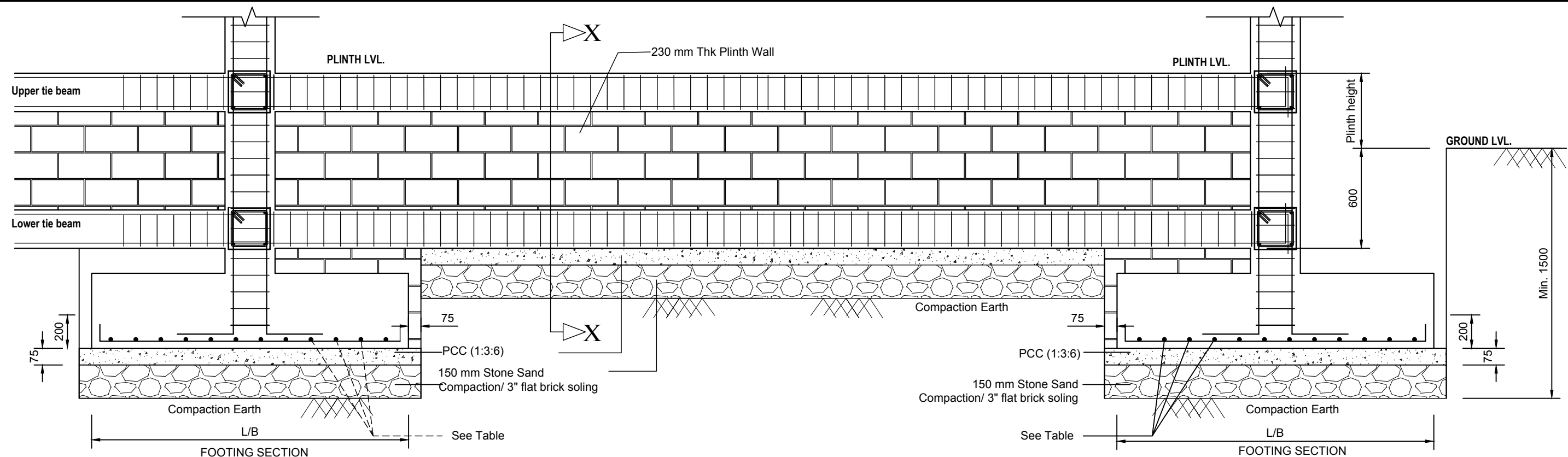
FOOTING PLAN



PLINTH AND FOUNDATION TIE BEAM

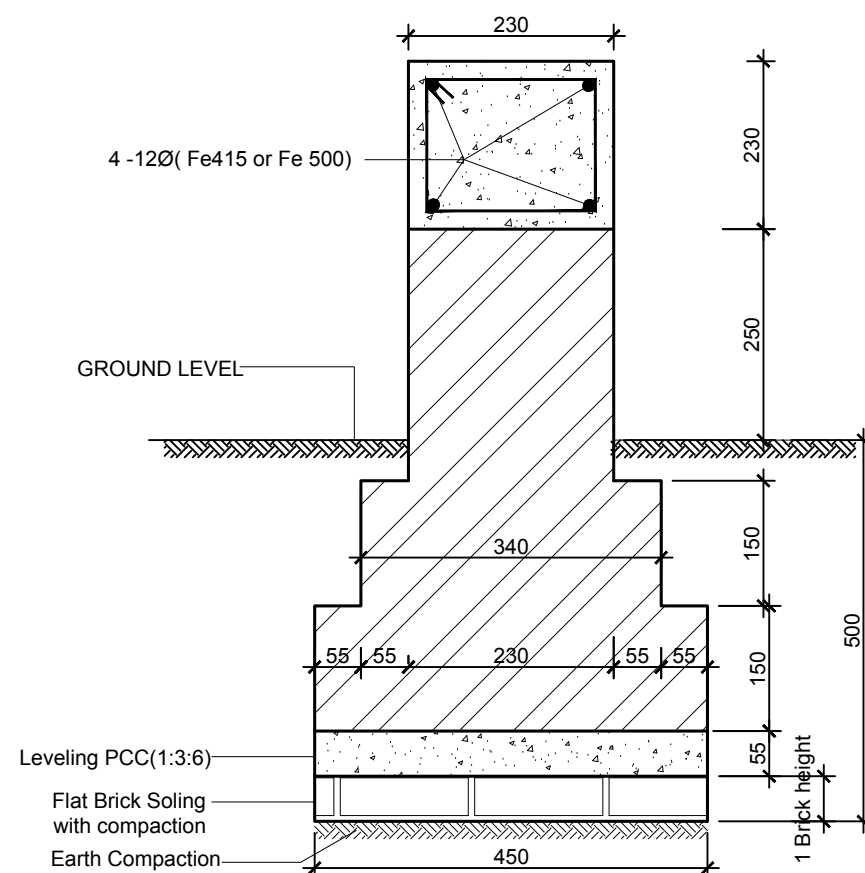
PAD FOUNDATION SIZE FOR SOFT SOIL (Safe bearing capacity = 100 KN/m ²)				
Column Type	Foundation Plan LXB (mm)	Max Thickness	Reinforcement and Spacing	Recommended Minimum foundation depth, Df(mm)
Corner (F1)	1500X1500	275	12 dia@150mm c/c	1500
Face(F2)	2000X2000	375	12 dia@150mm c/c	1500
Inner(F3)	2325X2325	450	12 dia@150mm c/c	1500

PAD FOUNDATION SIZE FOR HARD SOIL (Safe bearing capacity = 200 KN/m ²)				
Column Type	Foundation Plan LXB (mm)	Max Thickness	Reinforcement and Spacing	Recommended Minimum foundation depth, Df(mm)
Corner (F1)	1000X1000	250	12 dia@150mm c/c	1500
Face(F2)	1400X1400	350	12 dia@150mm c/c	1500
Inner(F3)	1700X1700	425	12 dia@150mm c/c	1500

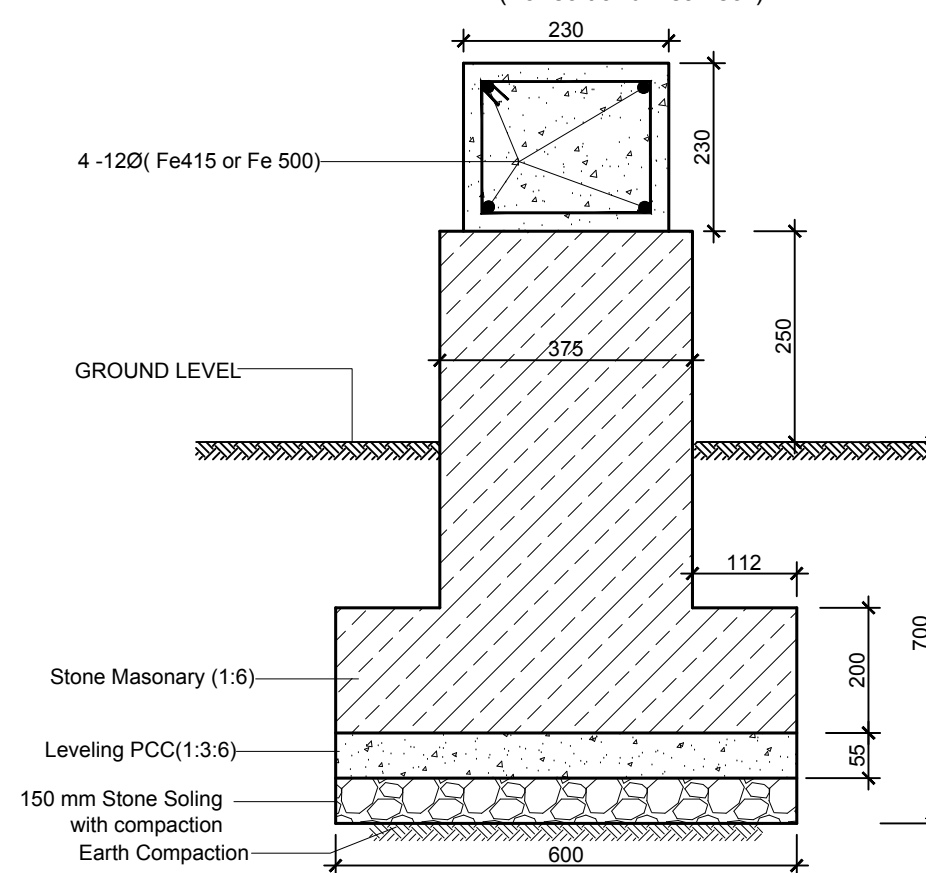


ELEVATION SHOWING FOOTING , LOWER TIE BEAM , UPPER TIE BEAM AND PLINTH WALL

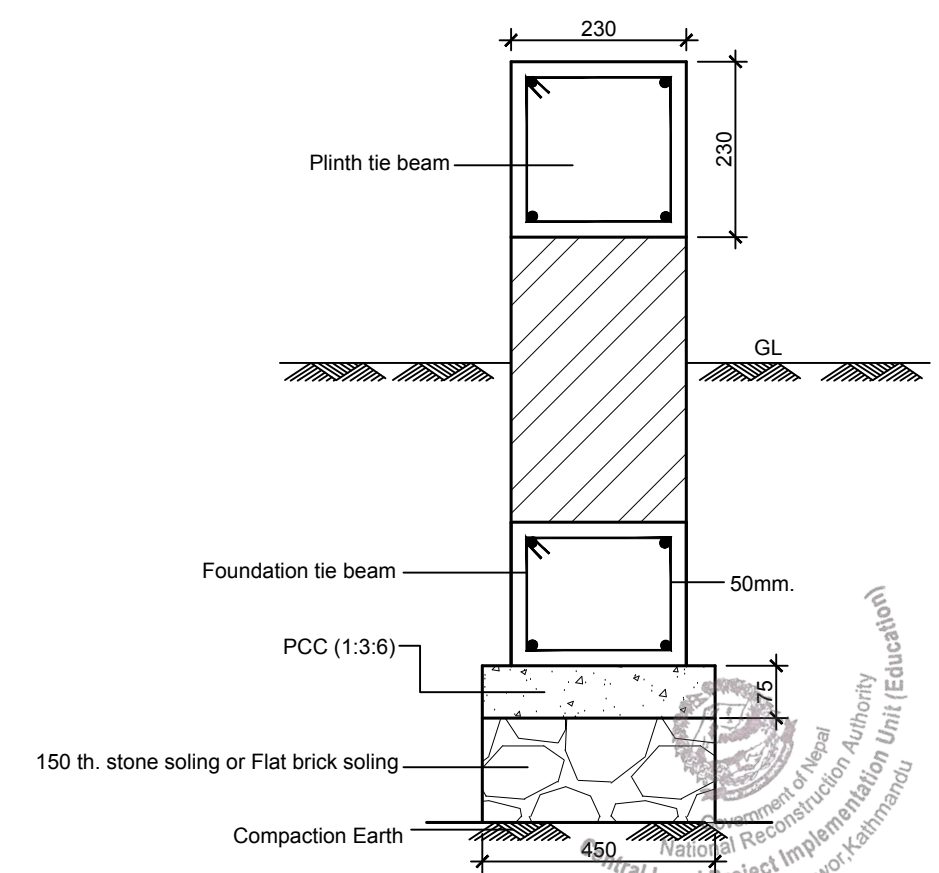
(For soft and weak soil)



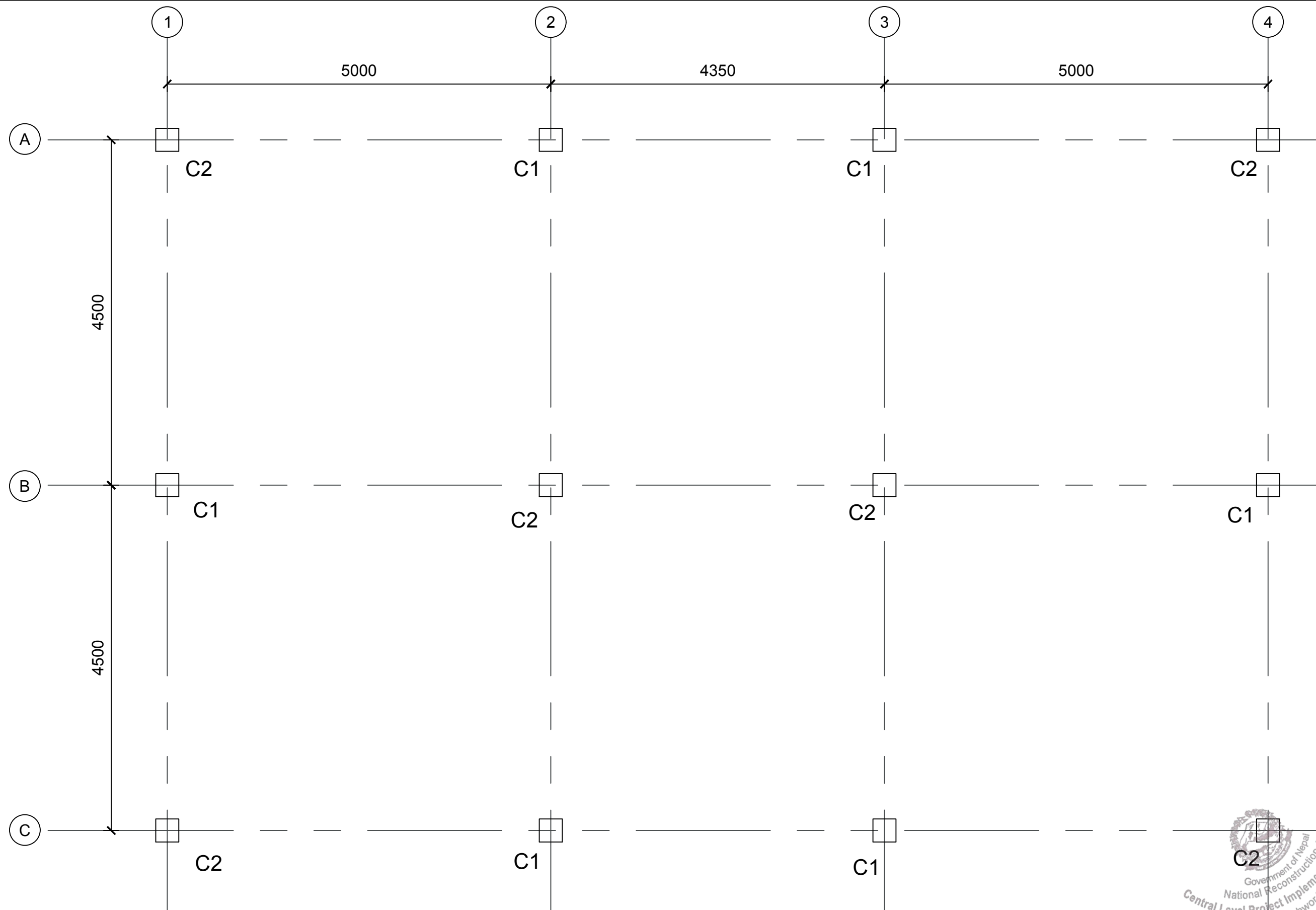
BRICK MASONRY TOE WALL



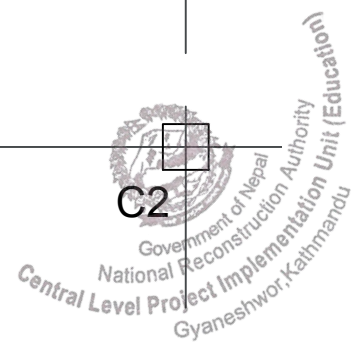
STONE MASONRY TOE WALL



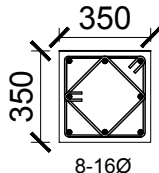
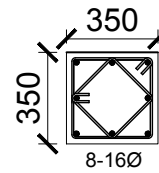
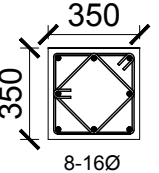
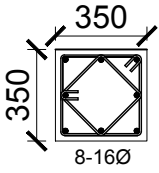
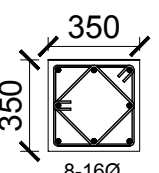
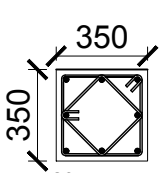
SECTION AT X-X

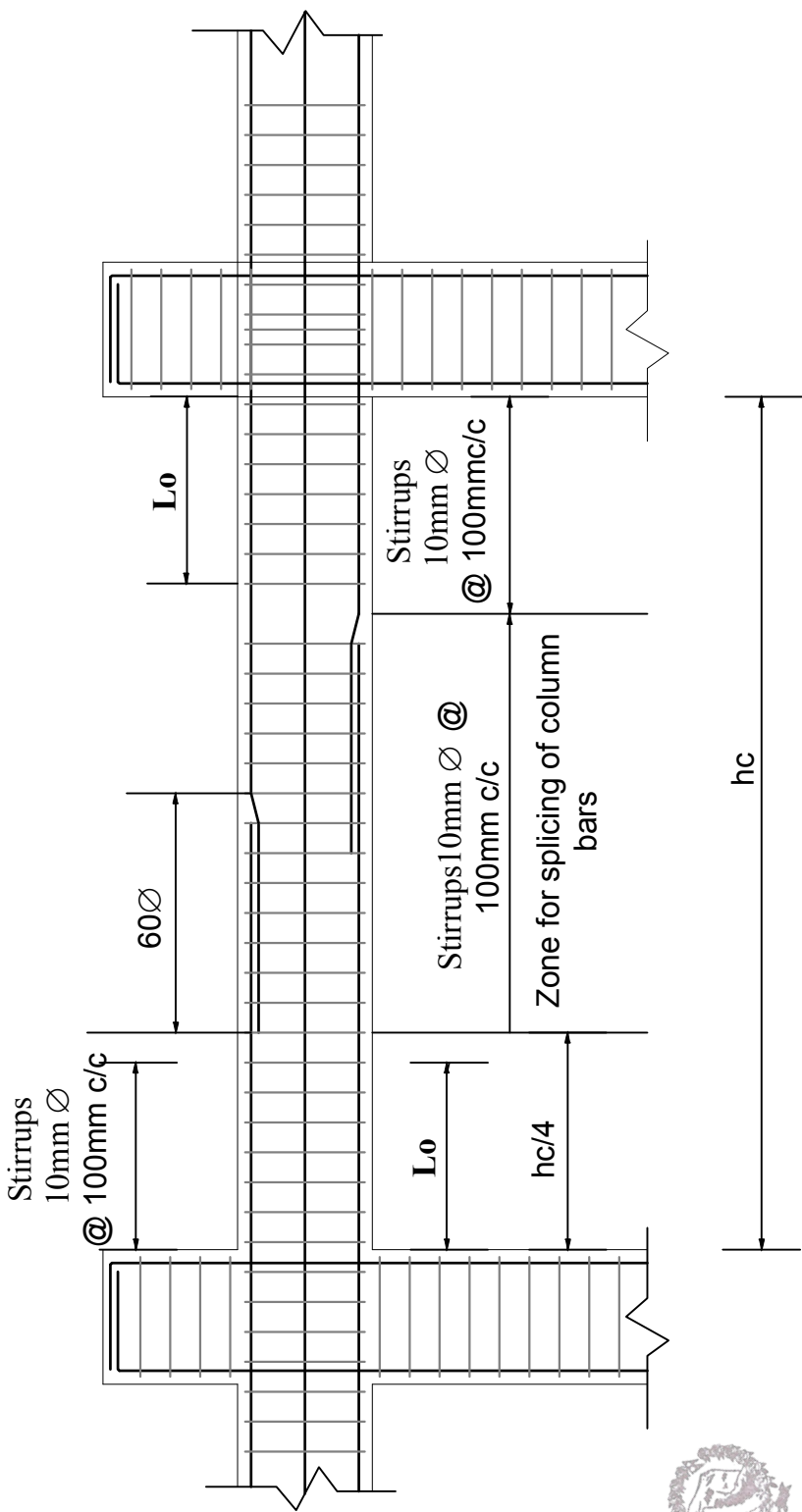


COLUMN PLAN

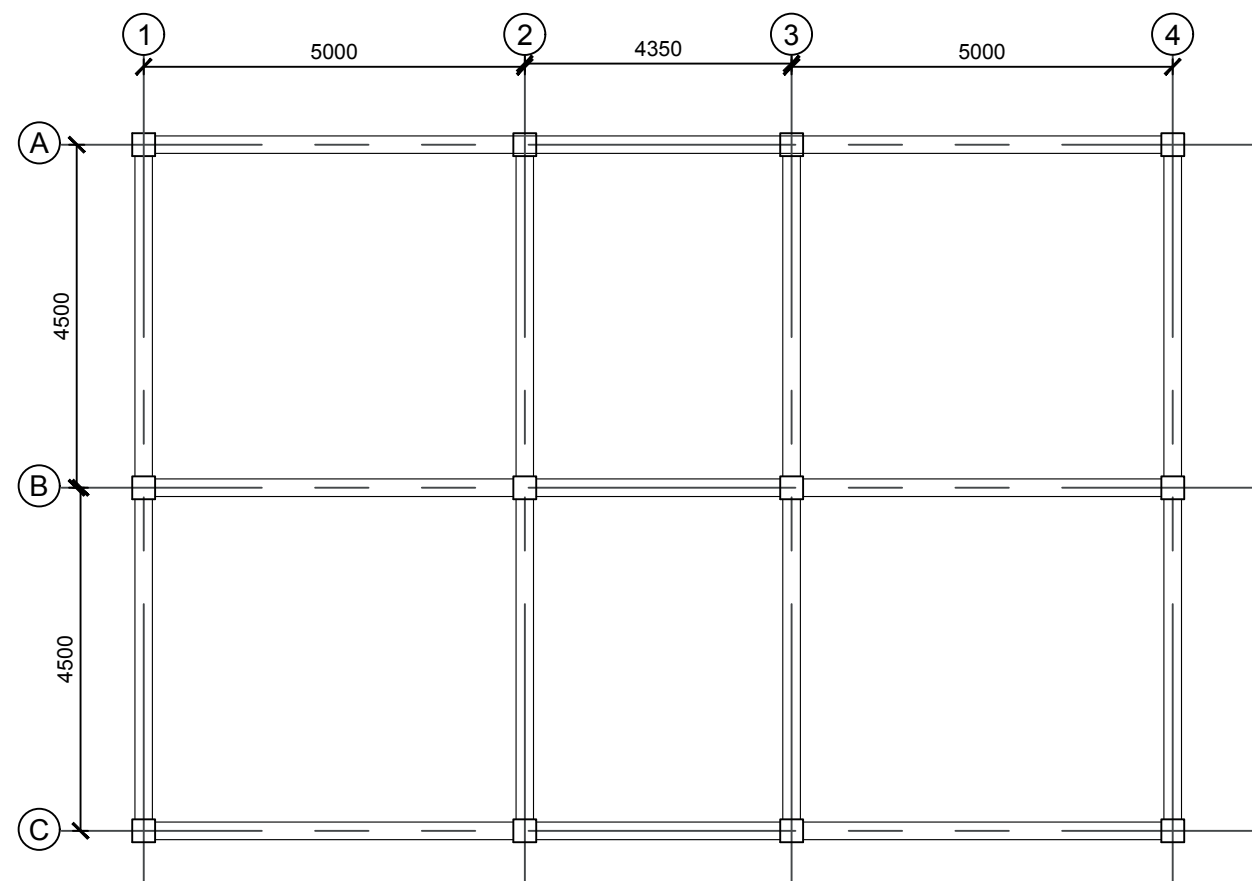


COLUMN SIZE AND REINFORCEMENT

Floor	Column C1	Column C2	Stirrups		Grade
			T & B (H/4)	Mid (H/2)	
Top Floor			8Ø @ 100mm c/c	8Ø @ 150mm c/c	M 20
First Floor			8Ø @ 100mm c/c	8Ø @ 150mm c/c	M 20
Ground Floor			8Ø @ 100mm c/c	8Ø @ 150mm c/c	M 20

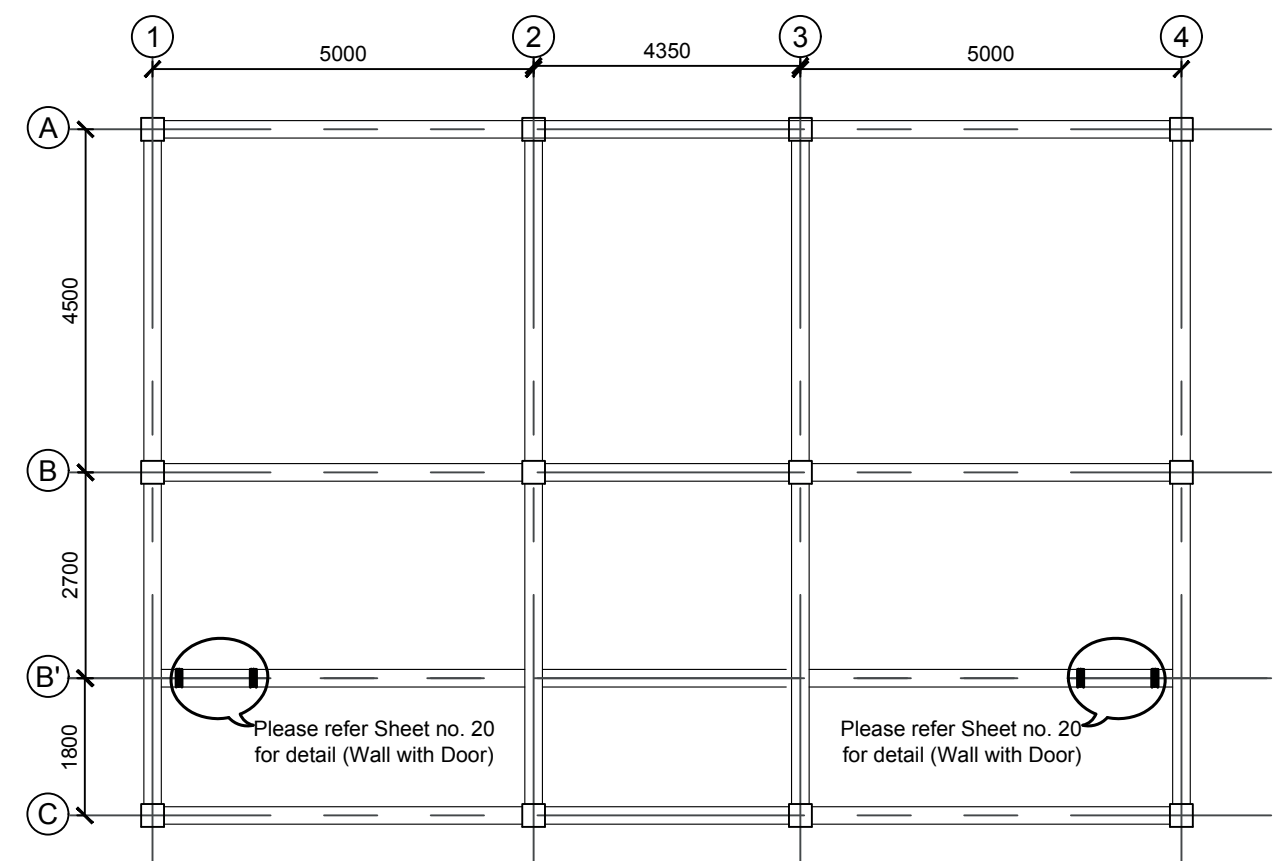


L-SECTION OF COLUMN WITH LAPPING

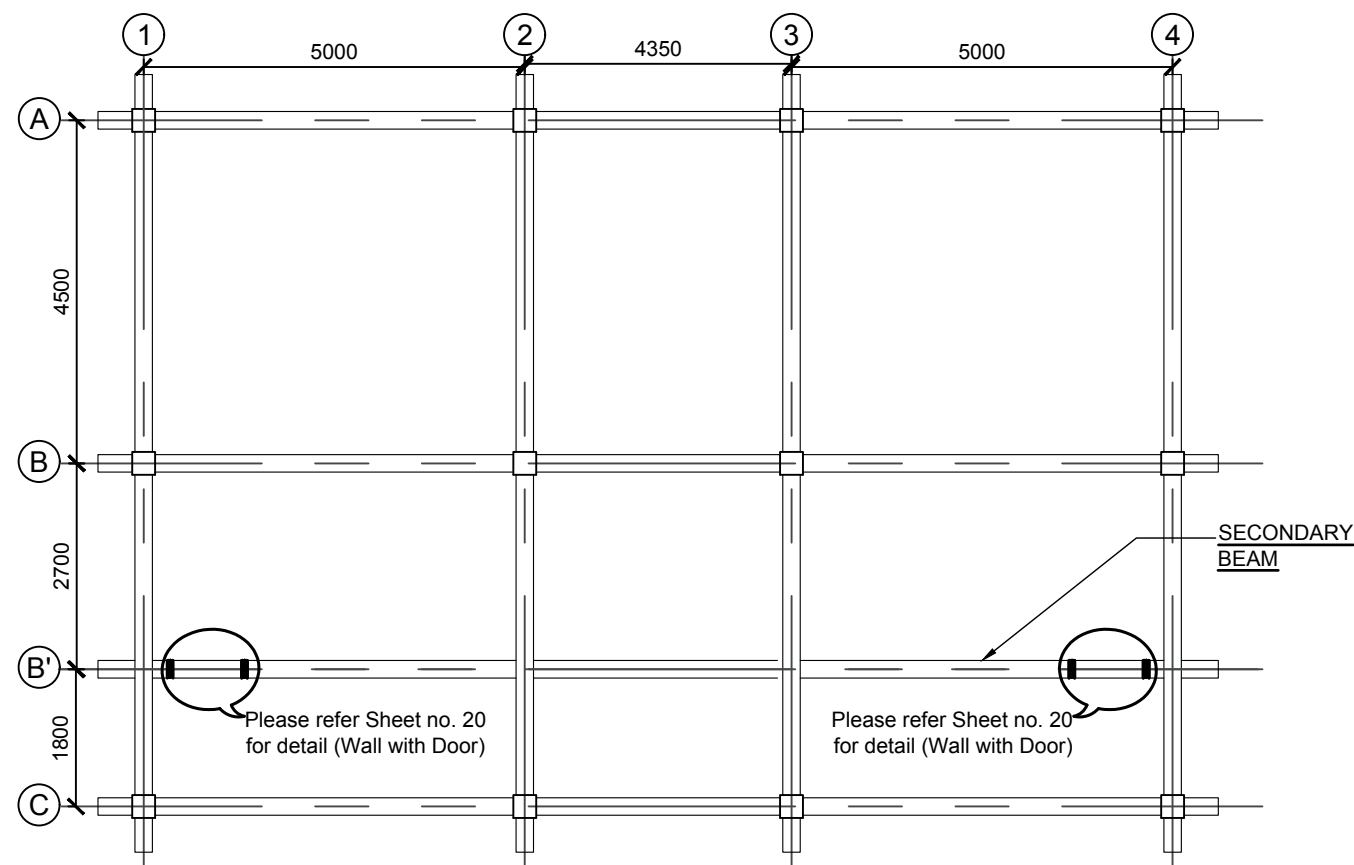


FOUNDATION TIE BEAM PLAN

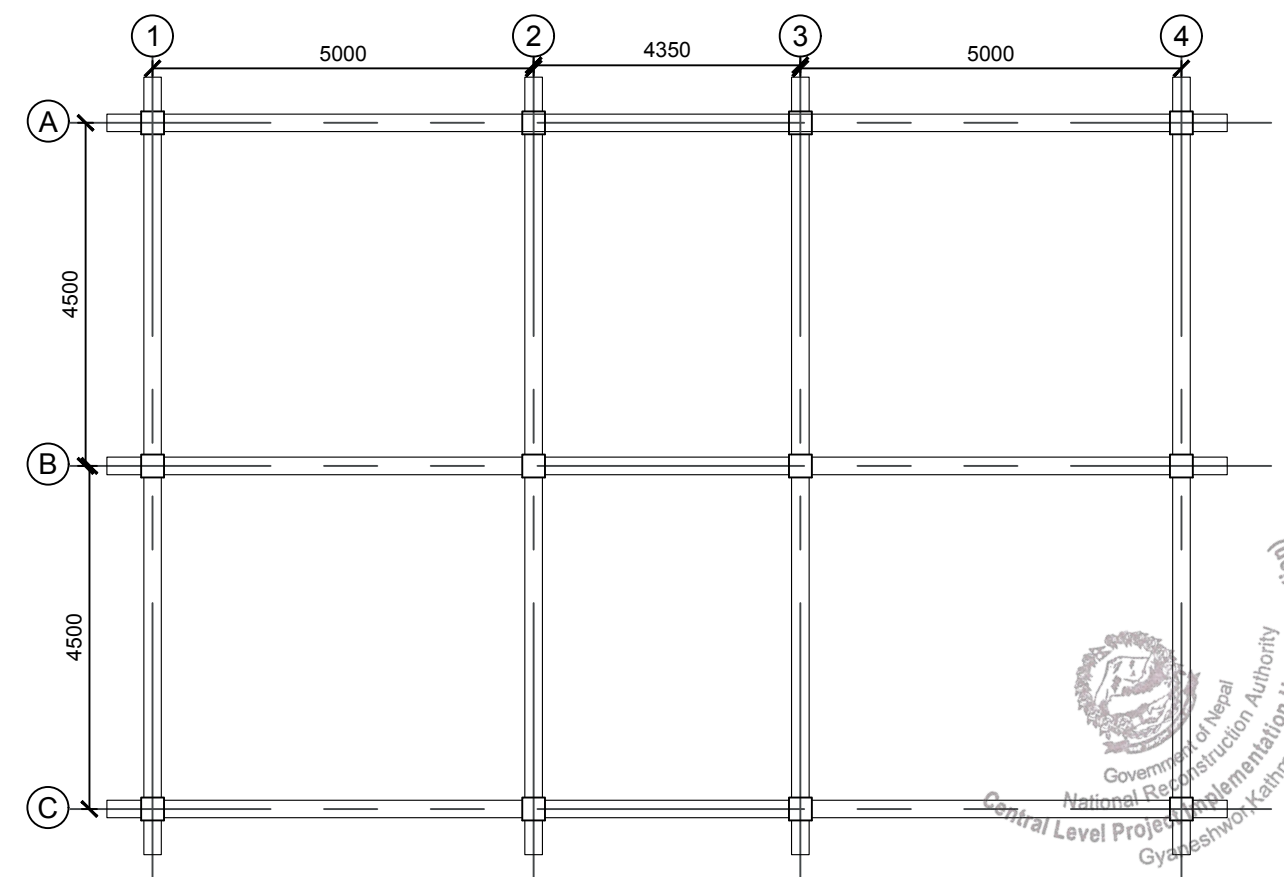
(Beam size 230x230)



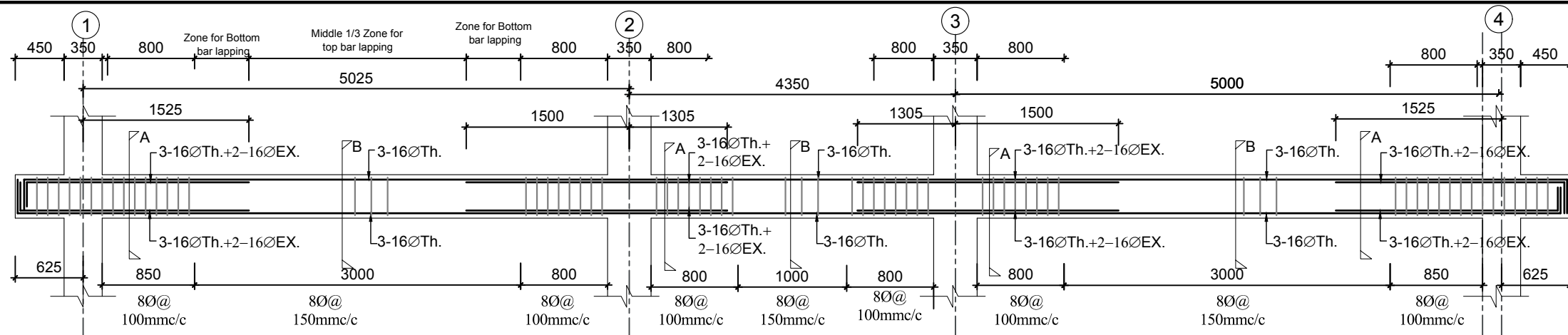
PLINTH BEAM PLAN



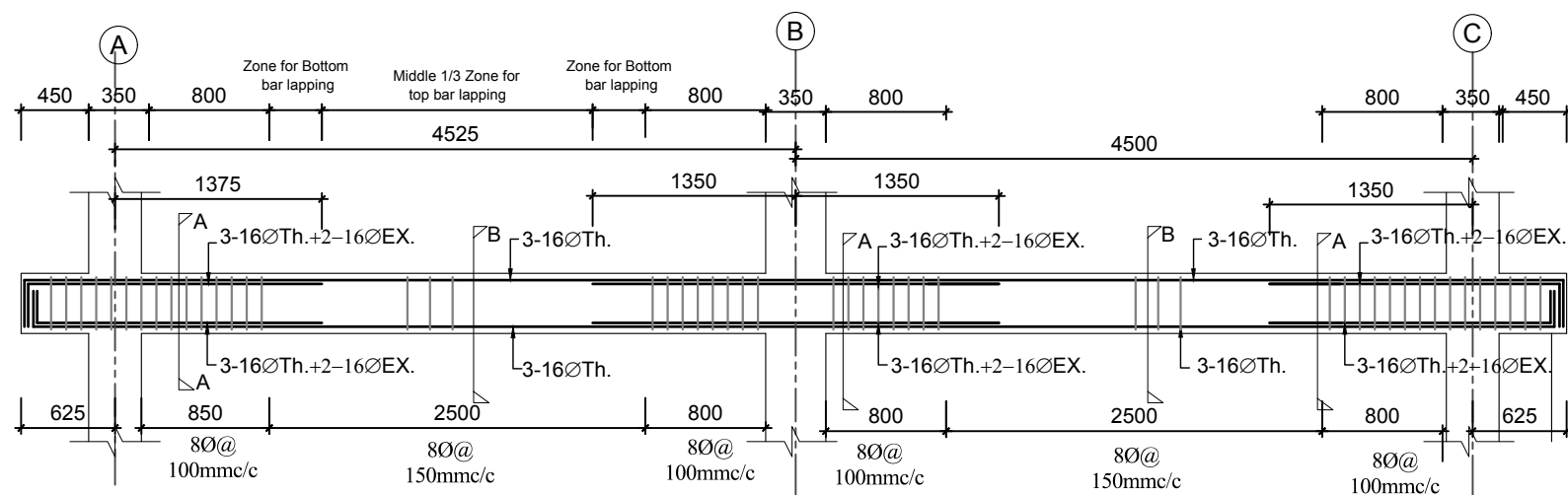
BEAM PLAN(First Floor)



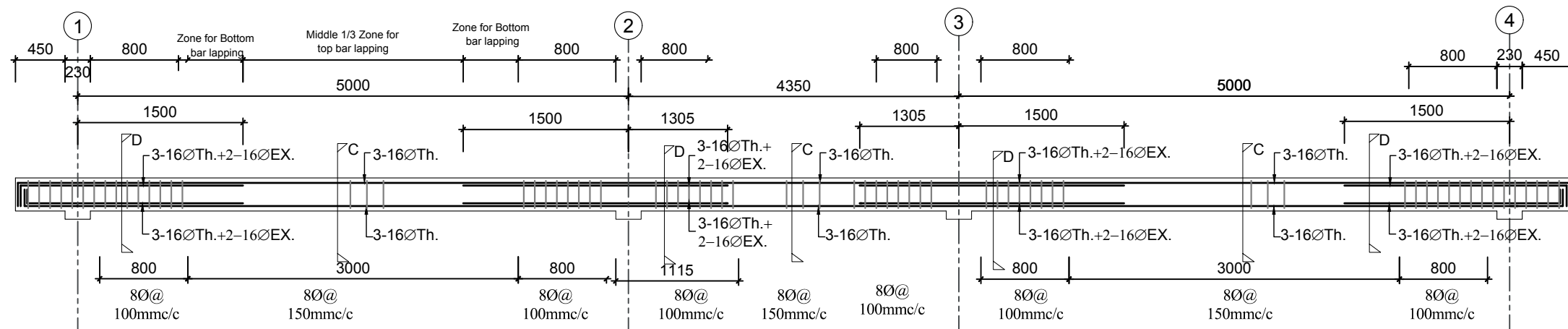
BEAM PLAN(Second Floor)



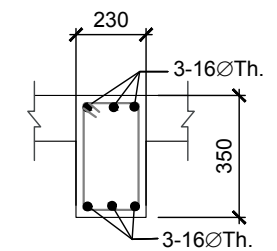
**L-Section of beam along grid A,B,C
(FIRST FLOOR - BEAM)**



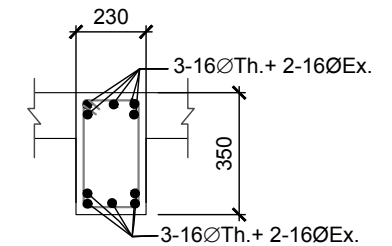
**L-Section of beam along grid 1,2,3,4
(FIRST FLOOR - BEAM)**



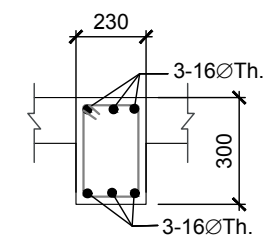
**L-Section of beam along grid B'
(SECONDARY BEAM)**



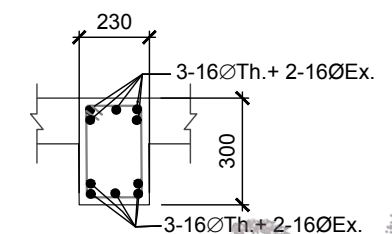
Section at B-B



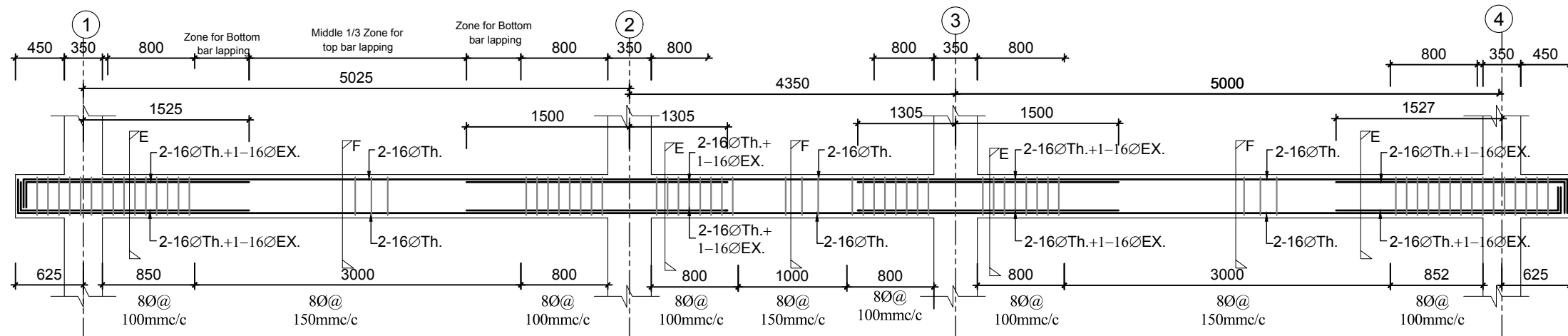
Section at A-A



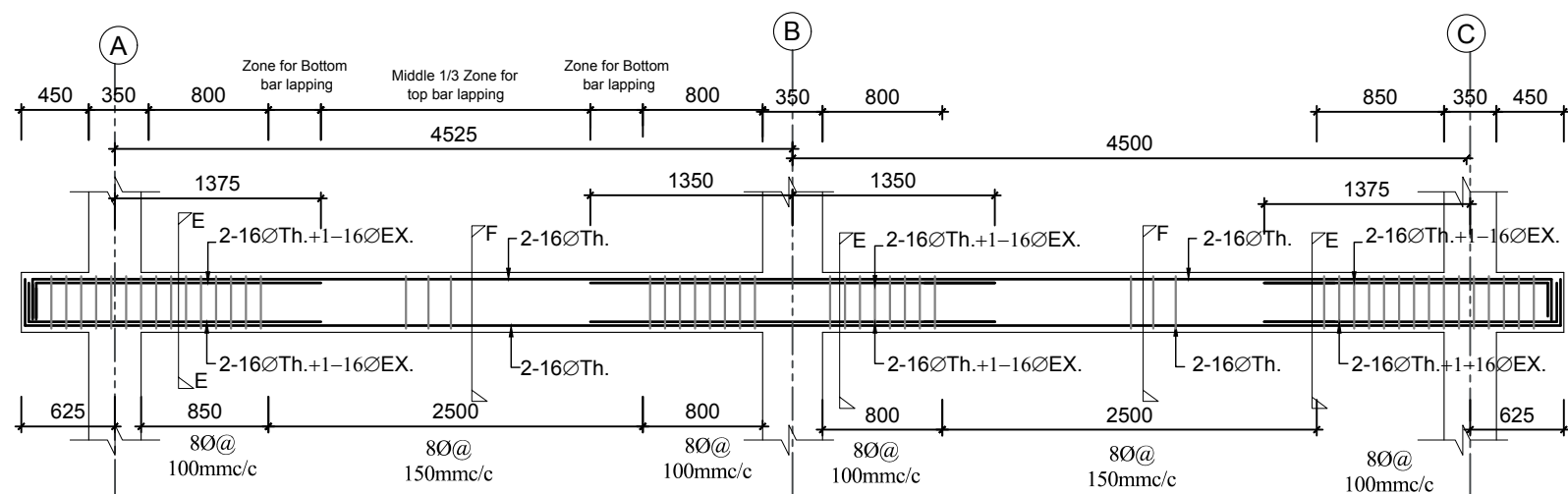
Section at C-C



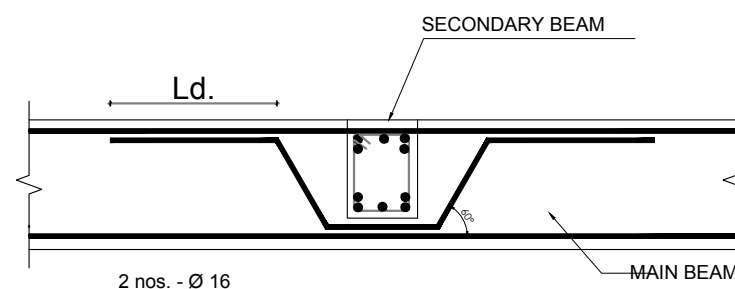
Section at D-D



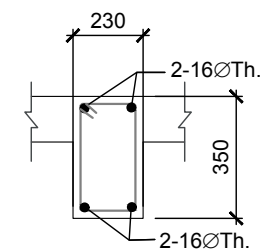
**L-Section of beam along grid A,B,C
(SECOND FLOOR - BEAM)**



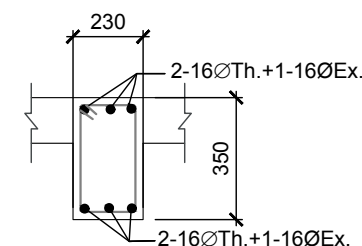
**L-Section of beam along grid 1,2,3,4
(SECOND FLOOR - BEAM)**



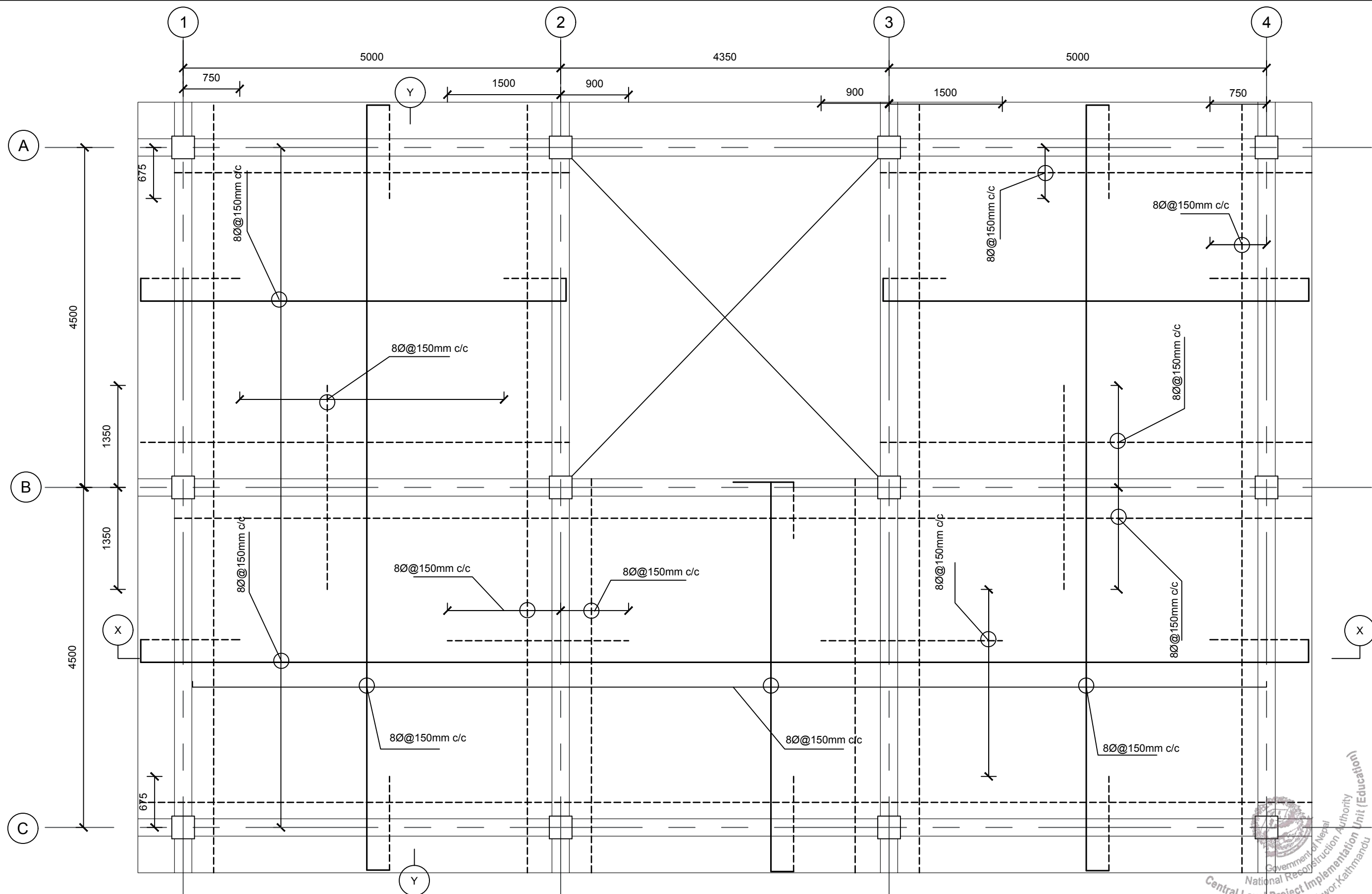
**Connection Detail Between Main & Secondary Beam
(Section)**



Section at F-F

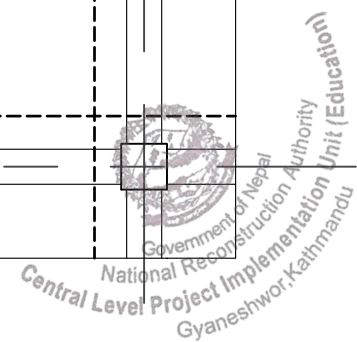


Section at E-E



SLAB PLAN FOR ALL FLOORS

SLAB THICKNESS= 125mm

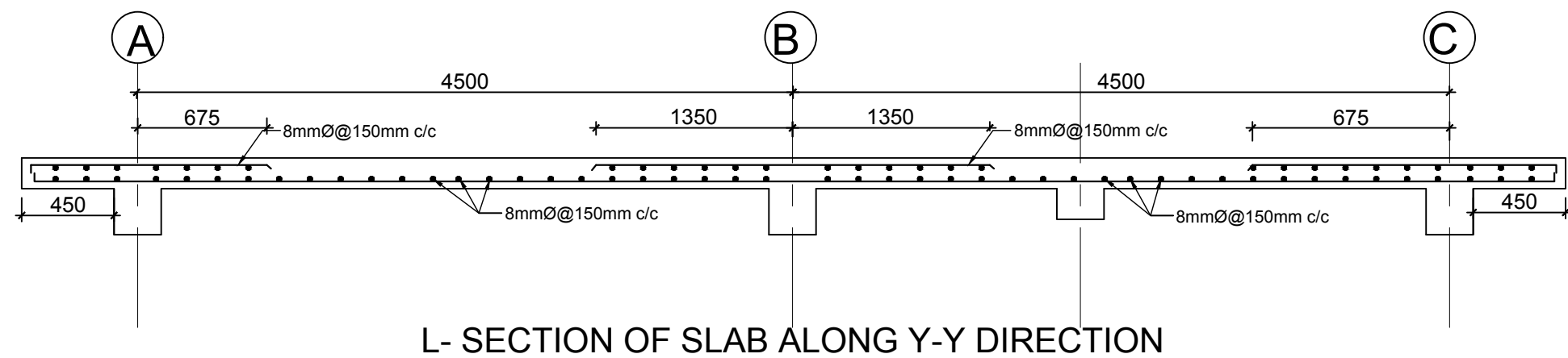
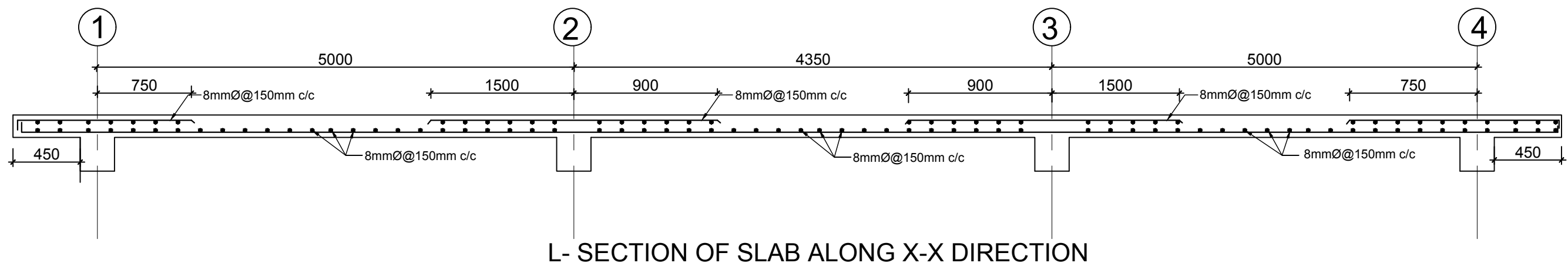


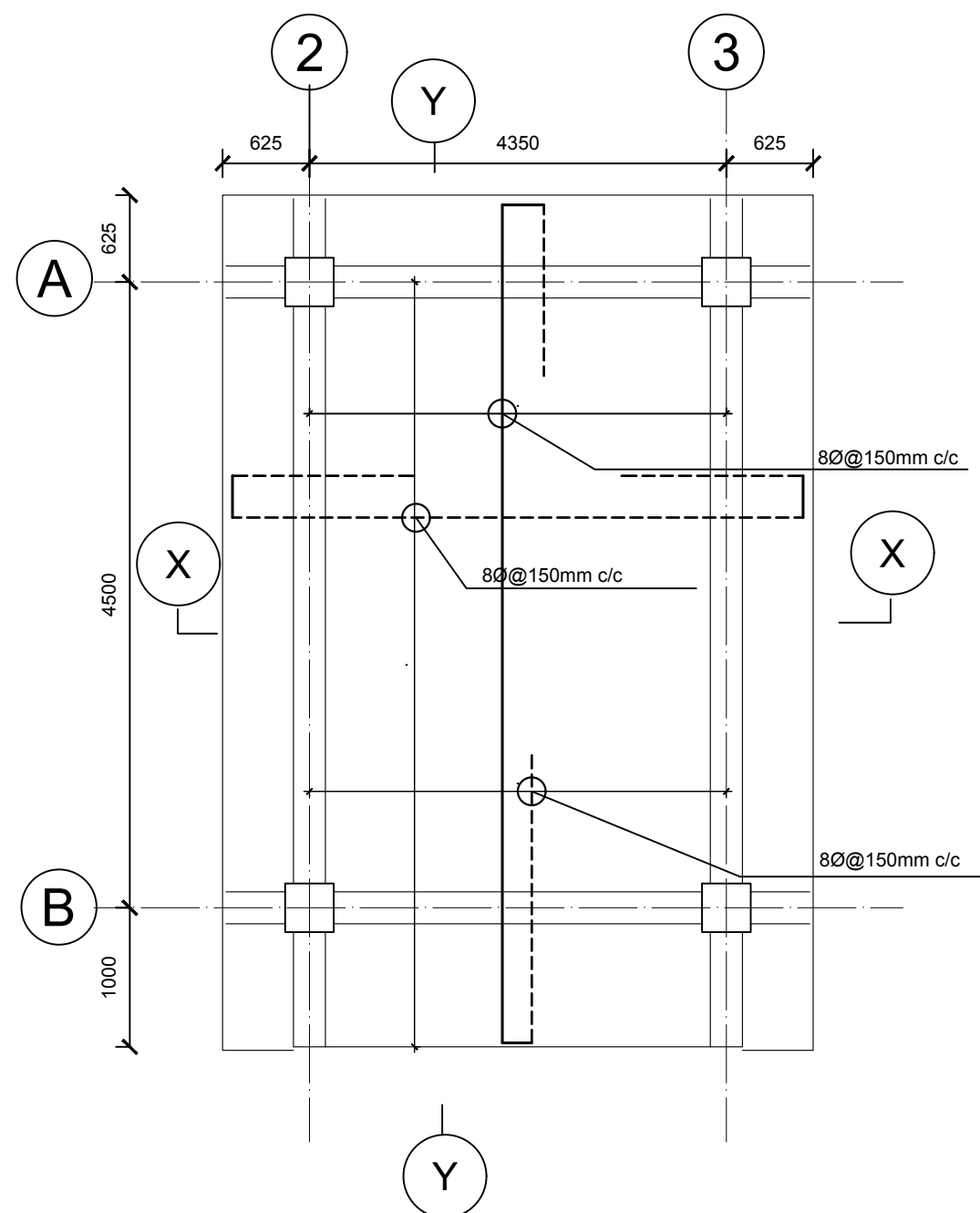
Government of Nepal
National Reconstruction Authority
Central Level Project Implementation Unit (EDU)
Gyaneshwor, Kathmandu

PROJECT :
2 Storey 4 Classrooms
Revised (Oct 2018)

TITLE :
SLAB REINFORCEMENT PLAN

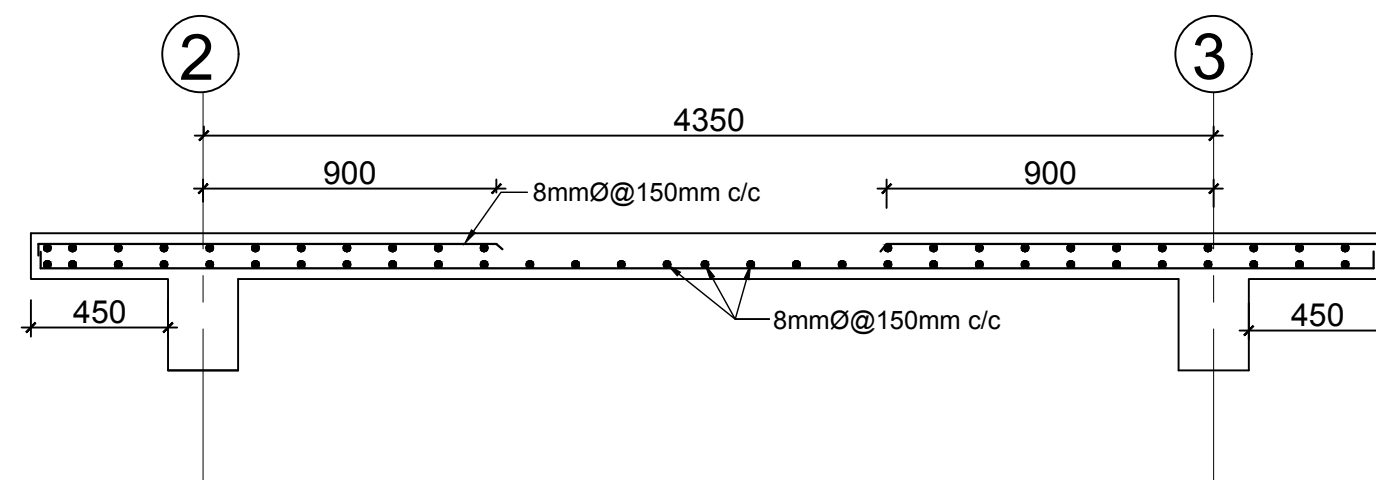
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Approved by :		



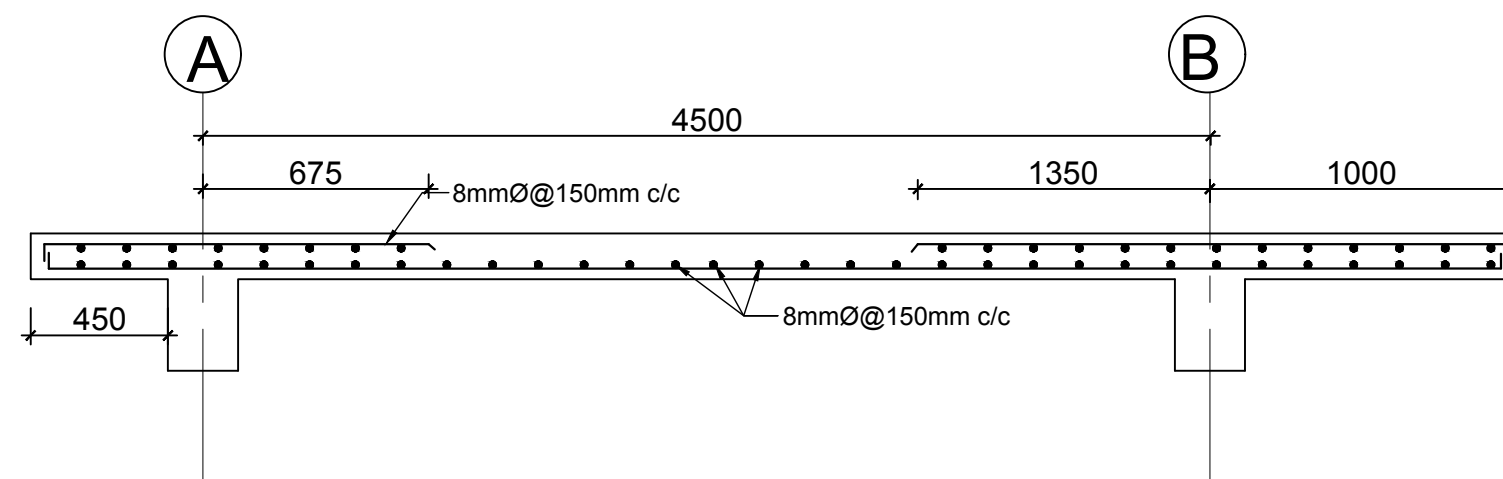


SLAB PLAN FOR STAIRCASE ROOF

SLAB THICKNESS= 125mm
Scale : 1:50

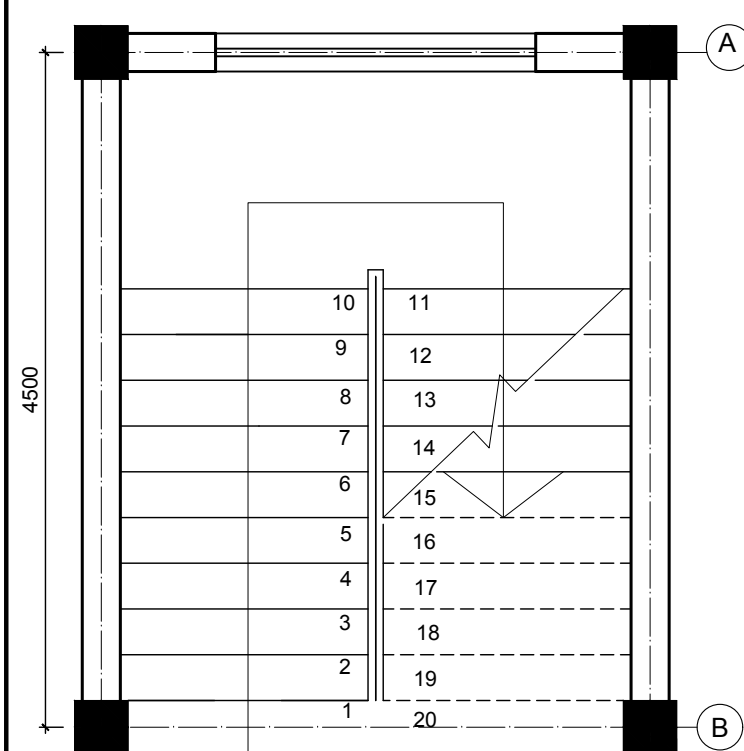


L- SECTION OF SLAB ALONG X-X DIRECTION



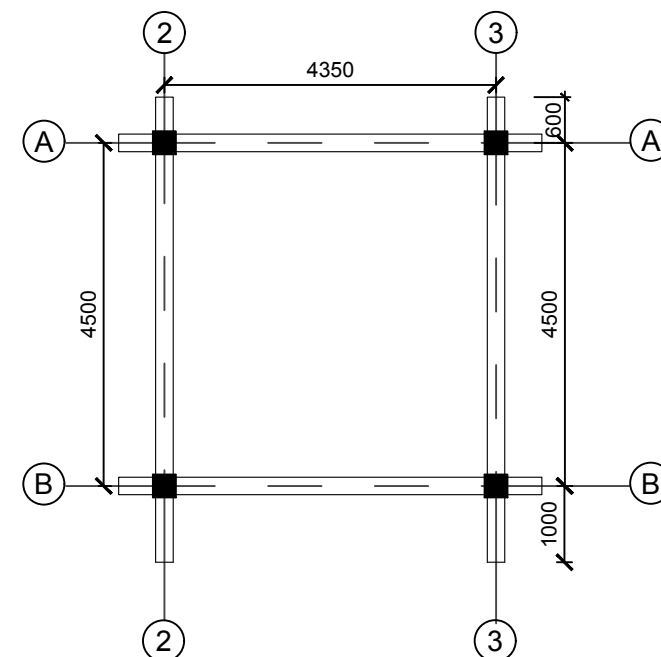
L- SECTION OF SLAB ALONG Y-Y DIRECTION





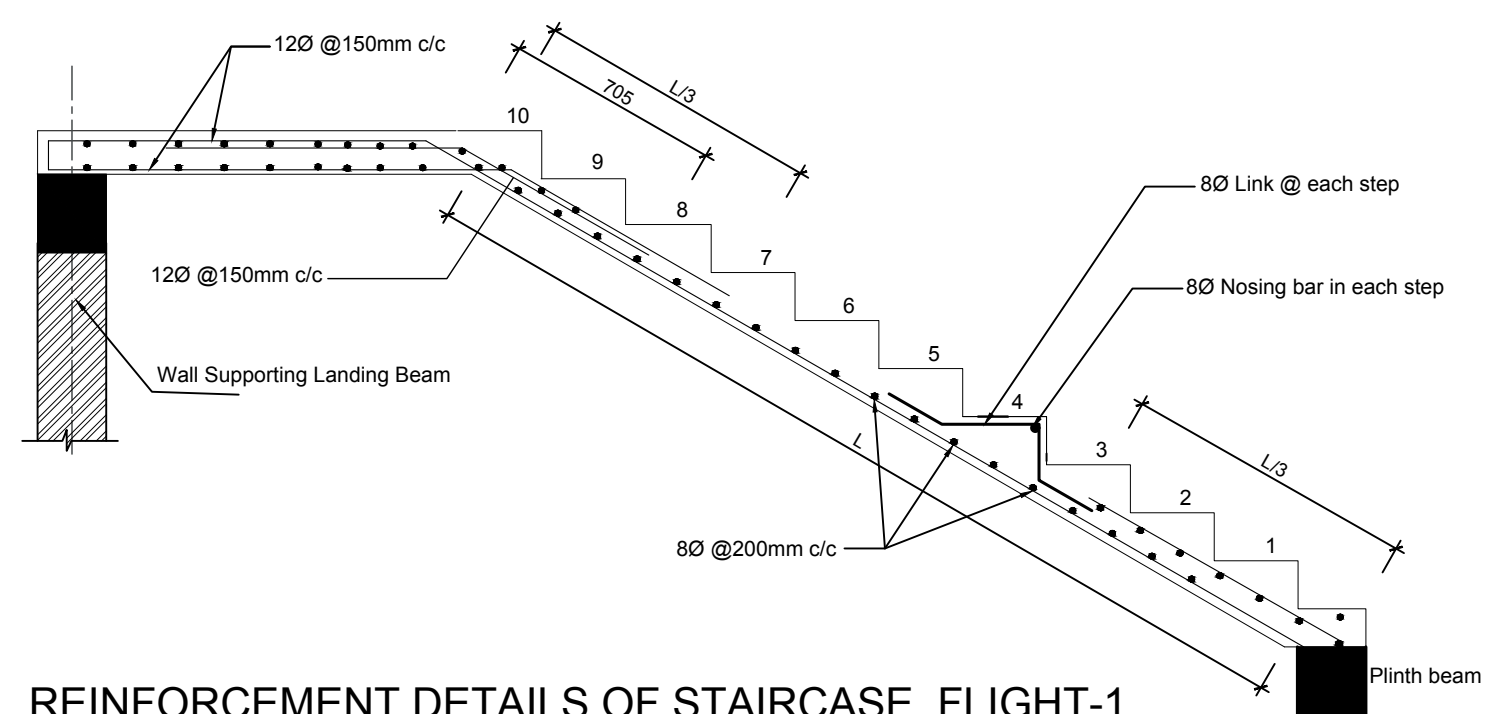
UP
Thickness Of Waist Slab = 150mm
Tread = 300 mm
Riser = 150mm

STAIRCASE PLAN
(SCALE - 1:50)



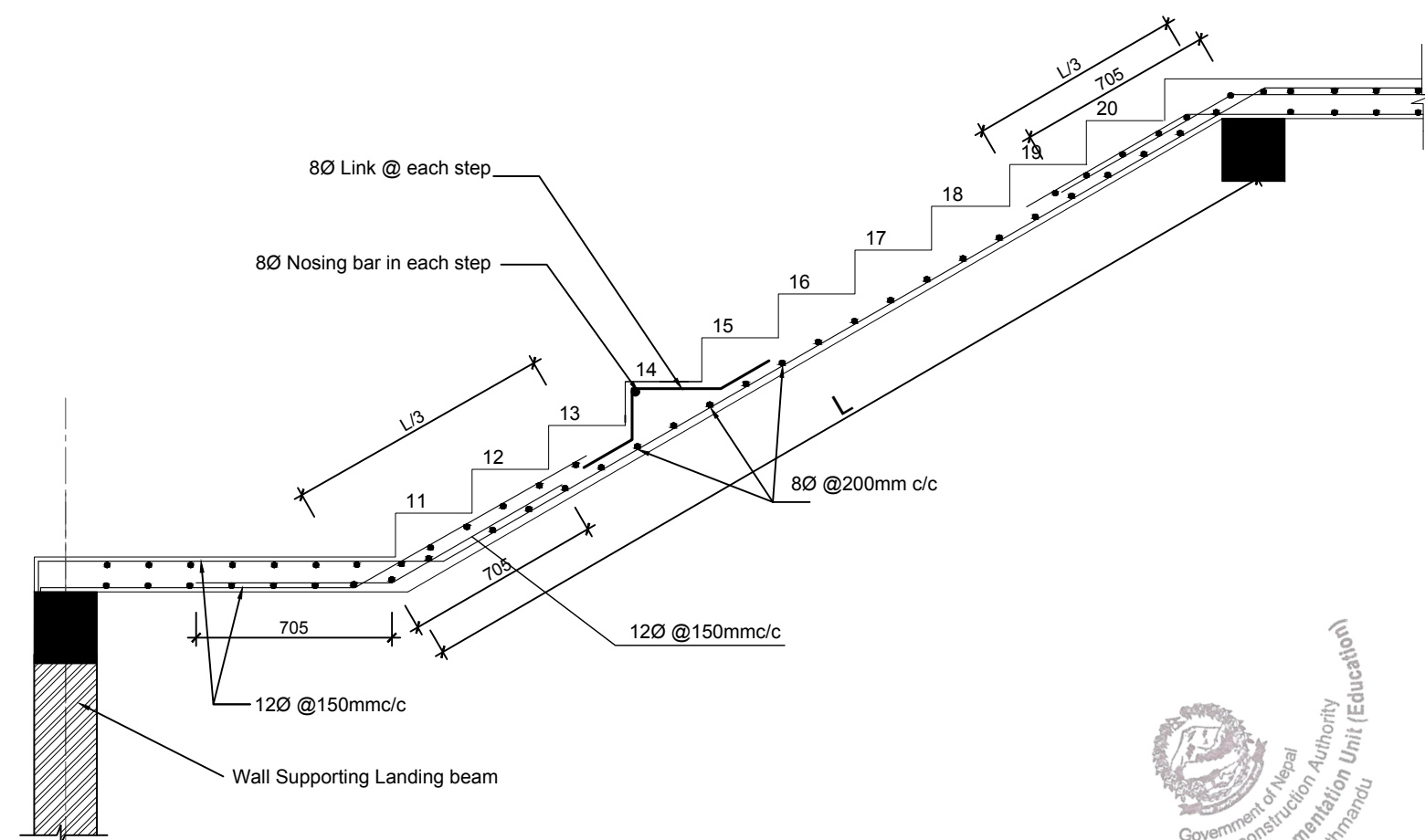
BEAM LAYOUT PLAN

(Staircase Roof Level)
(SCALE - 1:100)



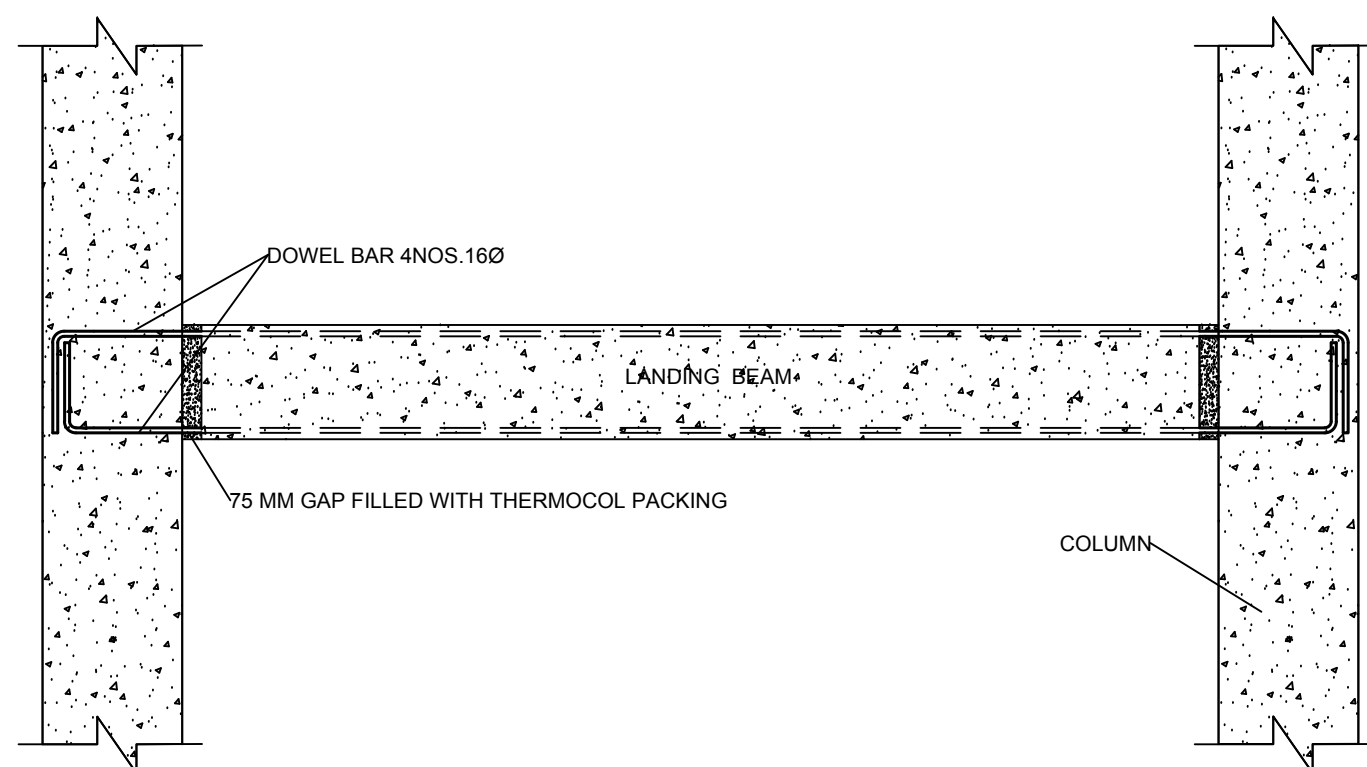
REINFORCEMENT DETAILS OF STAIRCASE FLIGHT-1

(SCALE - 1:25)

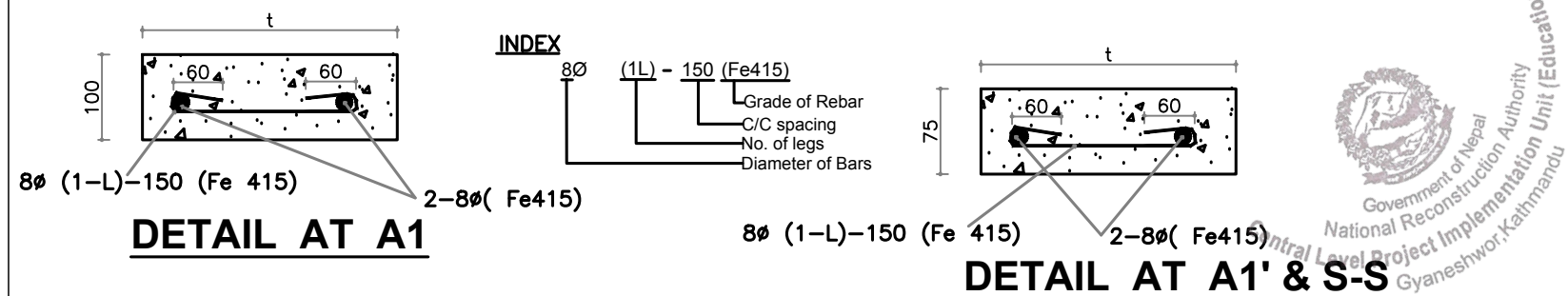
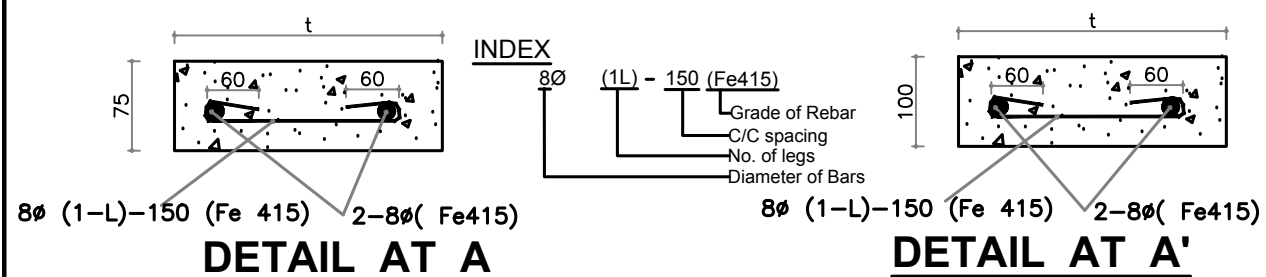
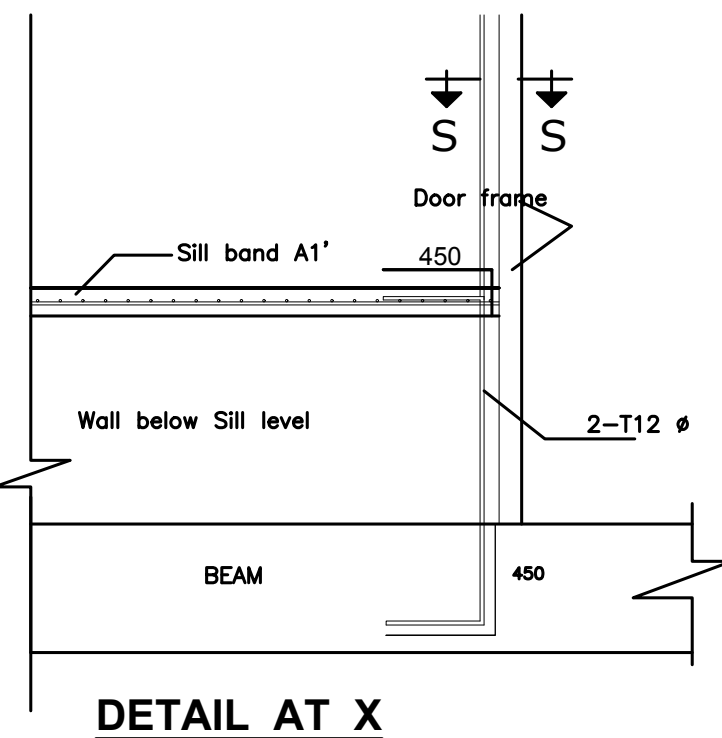
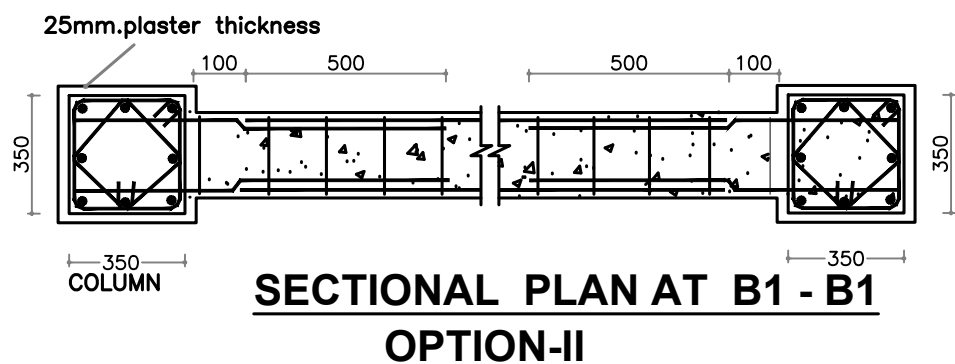
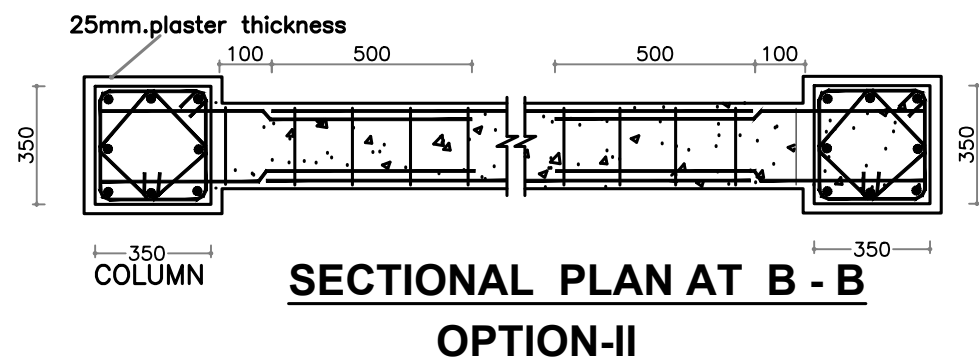
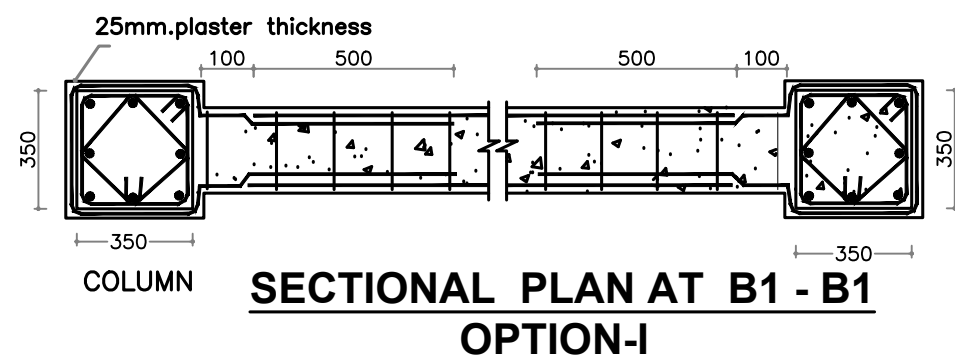
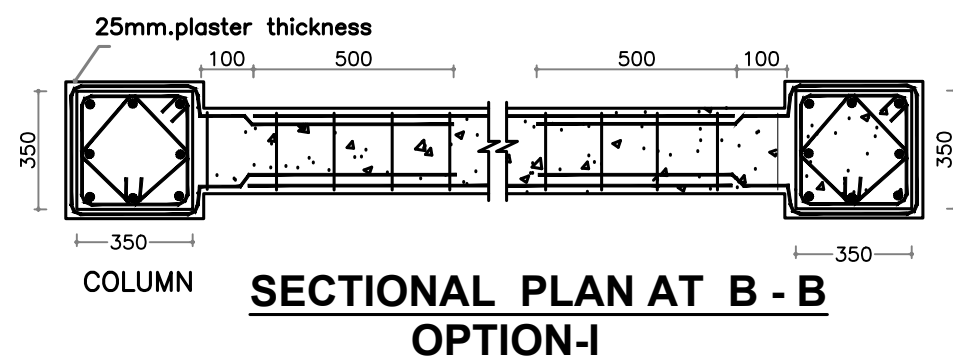
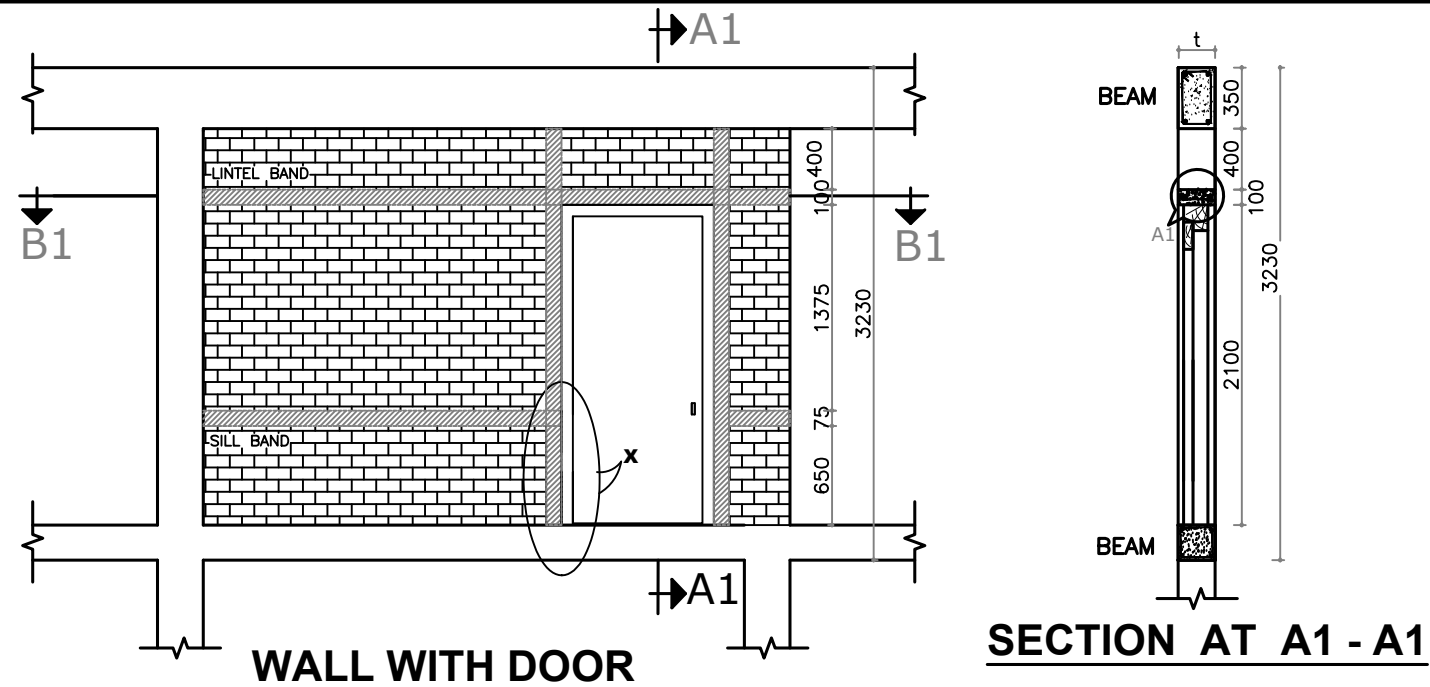
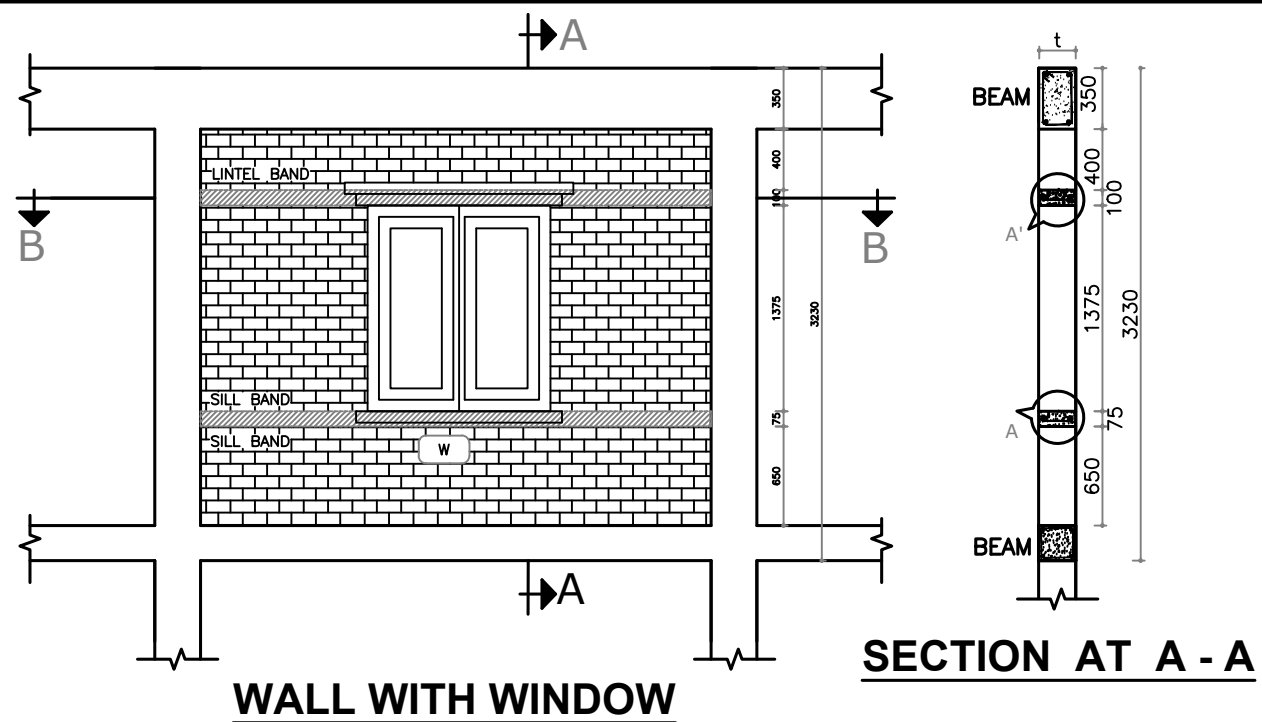


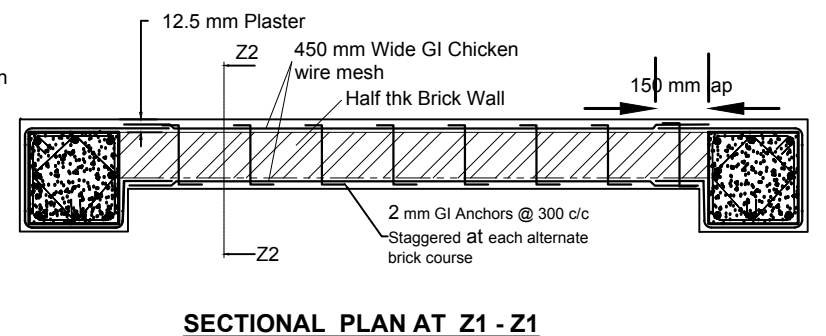
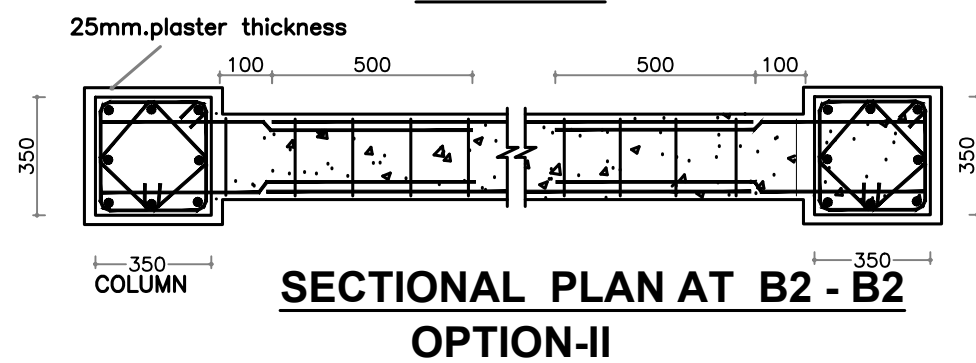
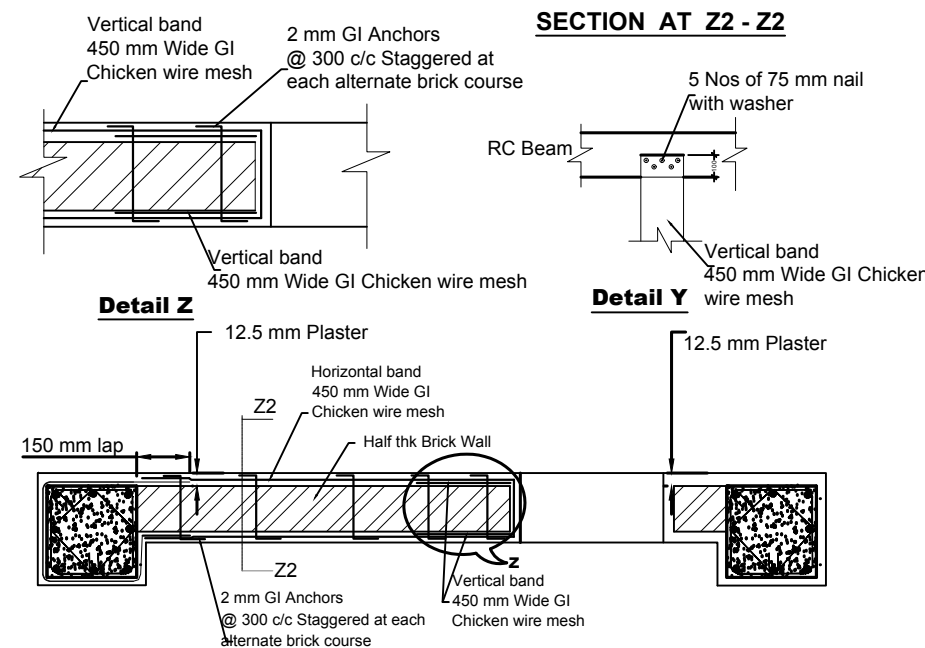
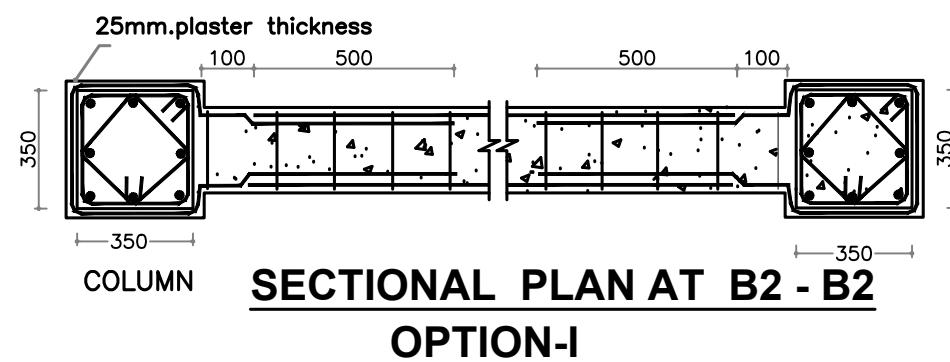
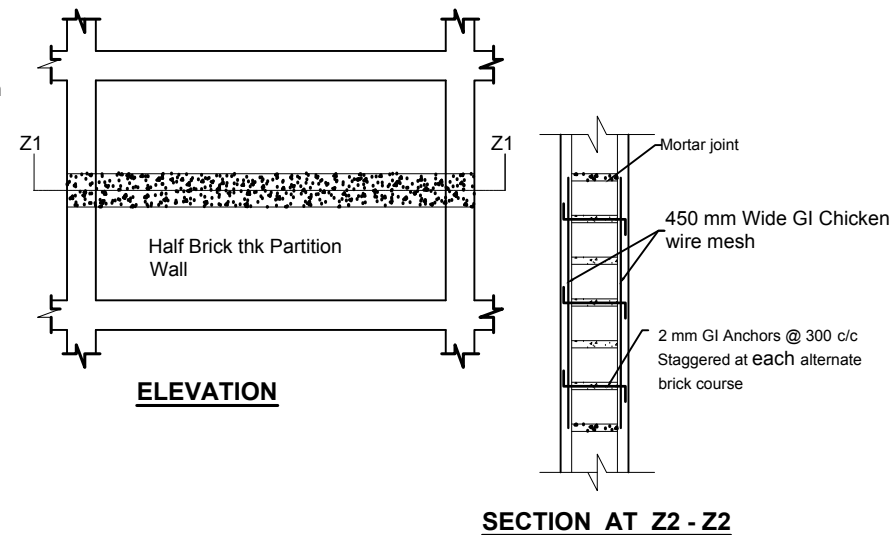
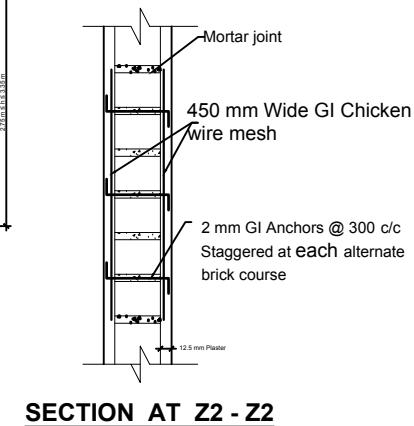
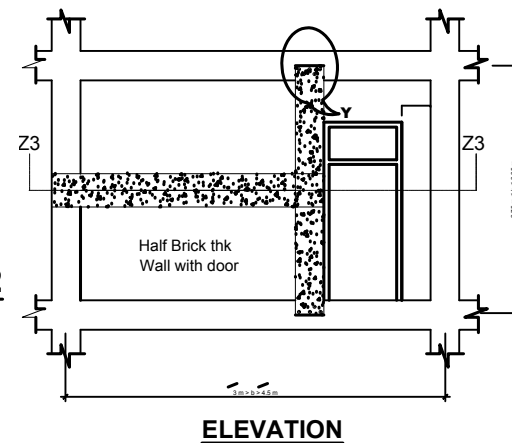
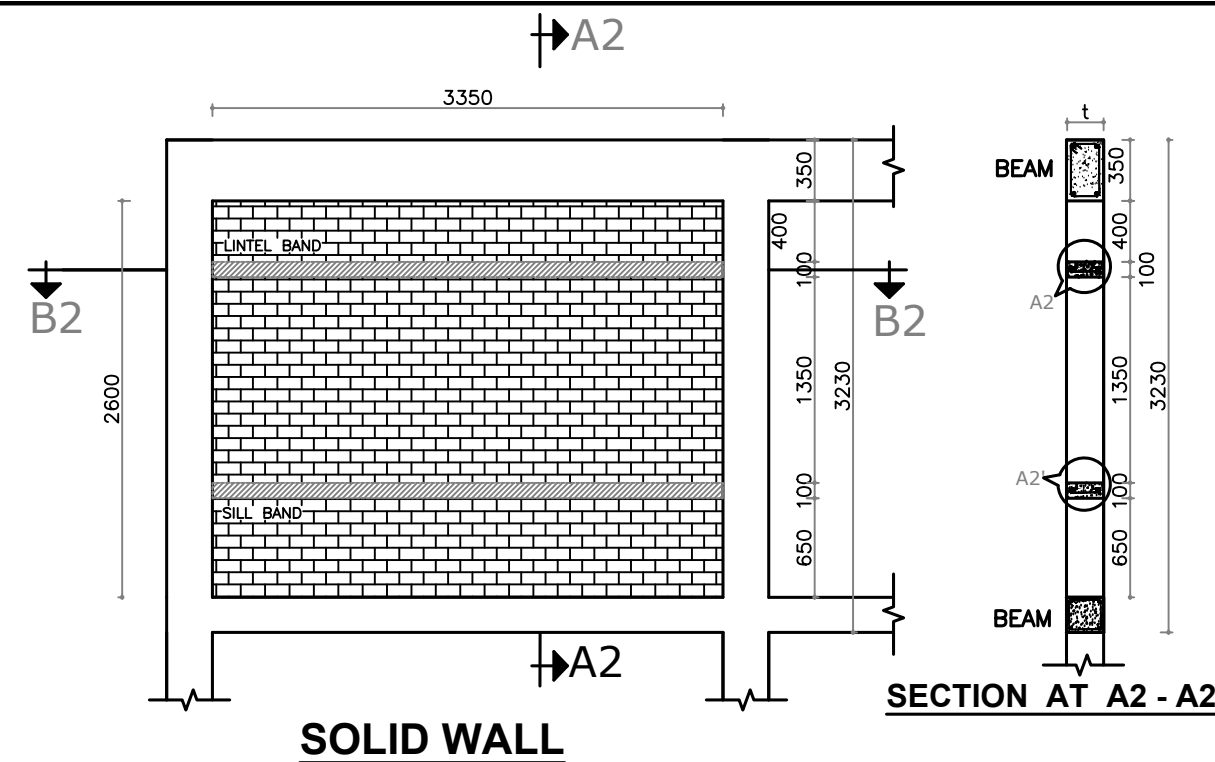
REINFORCEMENT DETAILS OF STAIRCASE FLIGHT-2

(SCALE - 1:25)

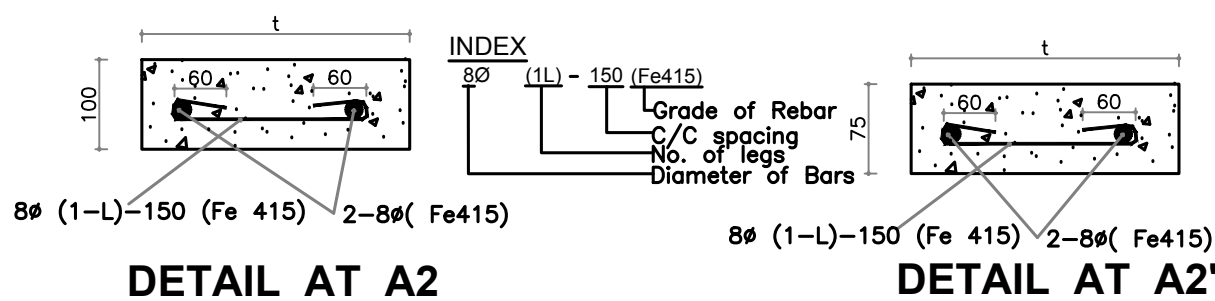


LANDING BEAM CONNECTION DETAIL





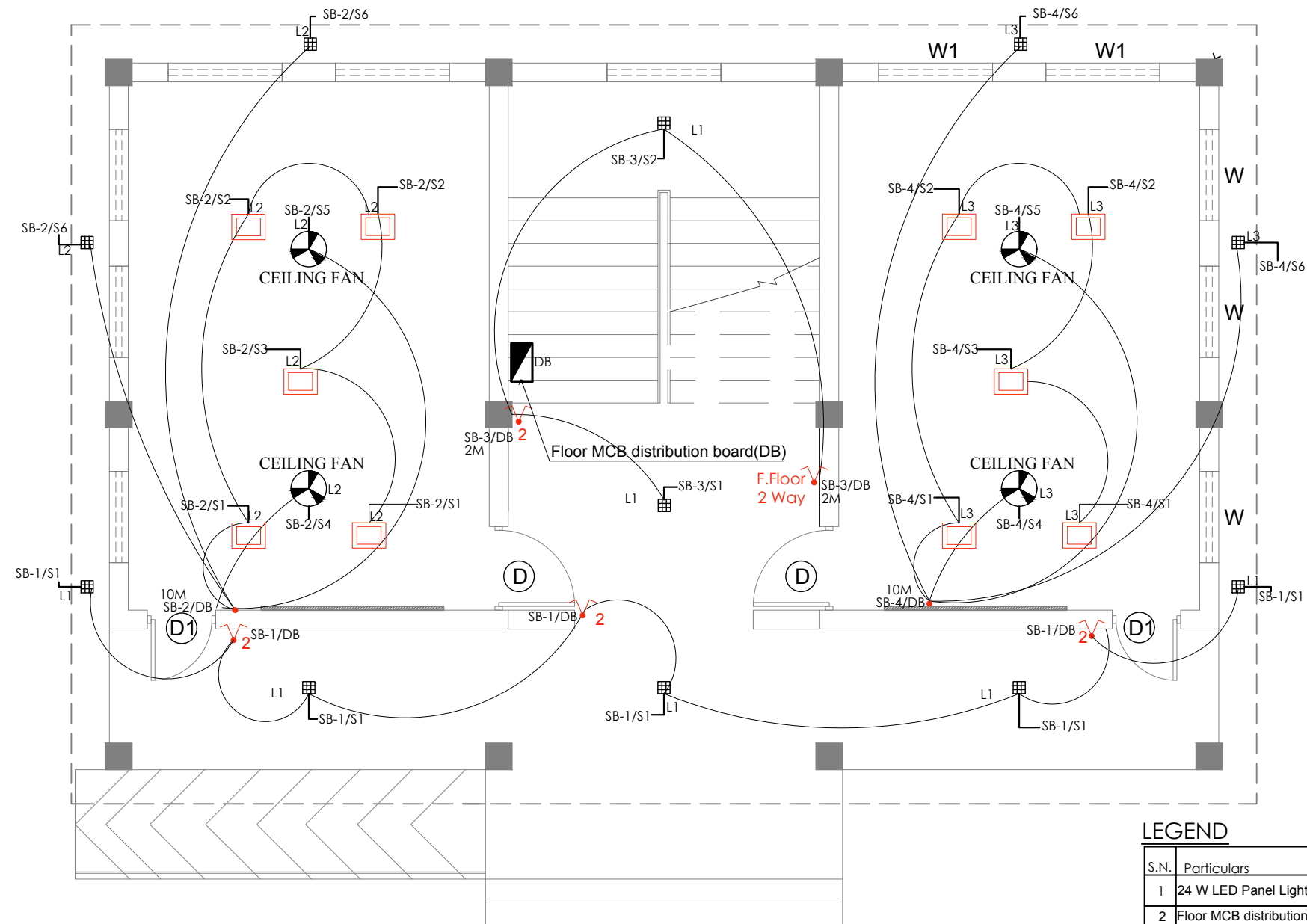
BAND Detail of Solid Partition Walls
Less than 6" thick wall



SECTIONAL PLAN AT Z3 - Z3
BAND Detail of Solid Partition Walls
Less than 6" thick wall



Government of Nepal National Reconstruction Authority Central Level Project Implementation Unit (EDU) Gyaneshwor, Kathmandu	PROJECT : 2 Storey 4 Classrooms Revised (Oct 2018)	TITLE : BAND DETAILS	Date :	Sheet No: 21
			Scale : 1:50 & 1:25	
			Designed by :	
			Checked by :	
			Approved by :	

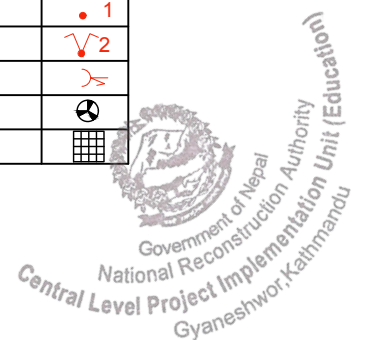


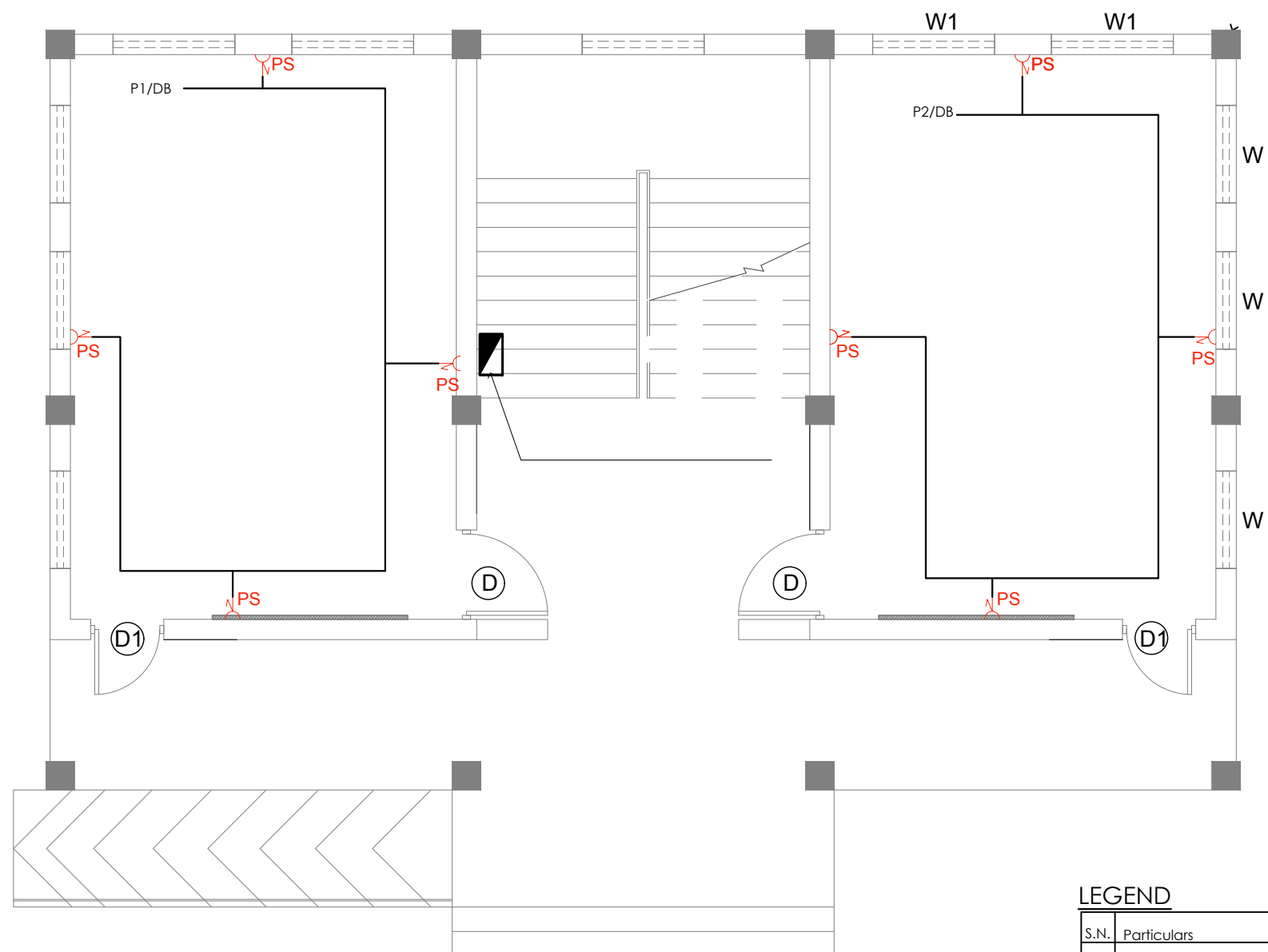
1. PVC PIPE OF 20 mm dia 2MM THICK FOR CONCEALED WIRING SHOULD BE USED
2. LIGHT/FAN/5A/16A SOCKET POINT 2X2.5 SQ. MM+1X 1.5 SQ MM(LNE)

LEGEND

S.N.	Particulars	Symbol
1	24 W LED Panel Light	
2	Floor MCB distribution board(DB)	
3	One way modular switch(Multi-gang)	
4	Two way modular switch	
5	6/16A 5 Pin switch socket outlet	
6	Ceiling Fan	
7	9W Square type LED Light	

GROUND FLOOR LIGHT LAYOUT PLAN





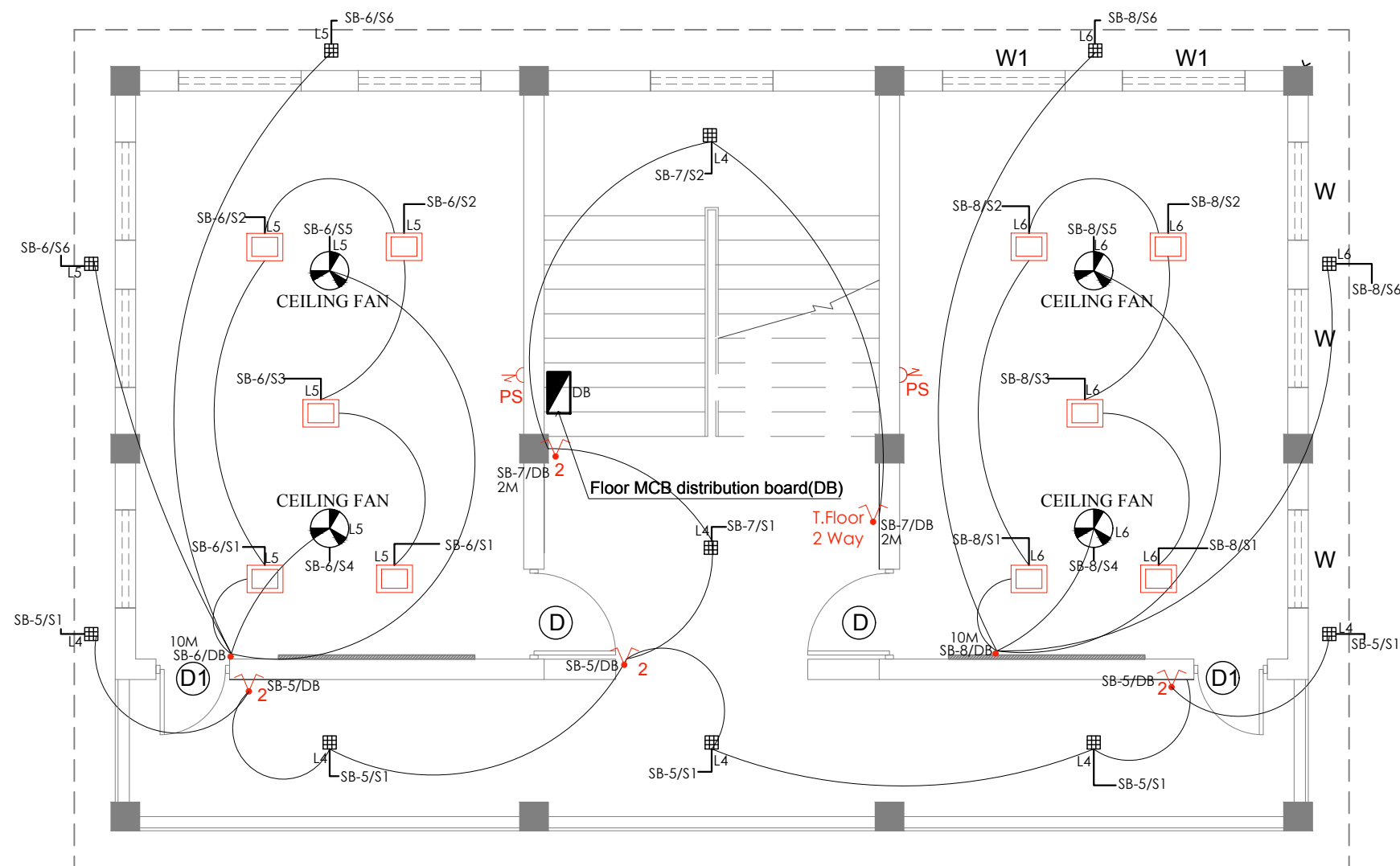
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GROUND FLOOR POWER LAYOUT PLAN





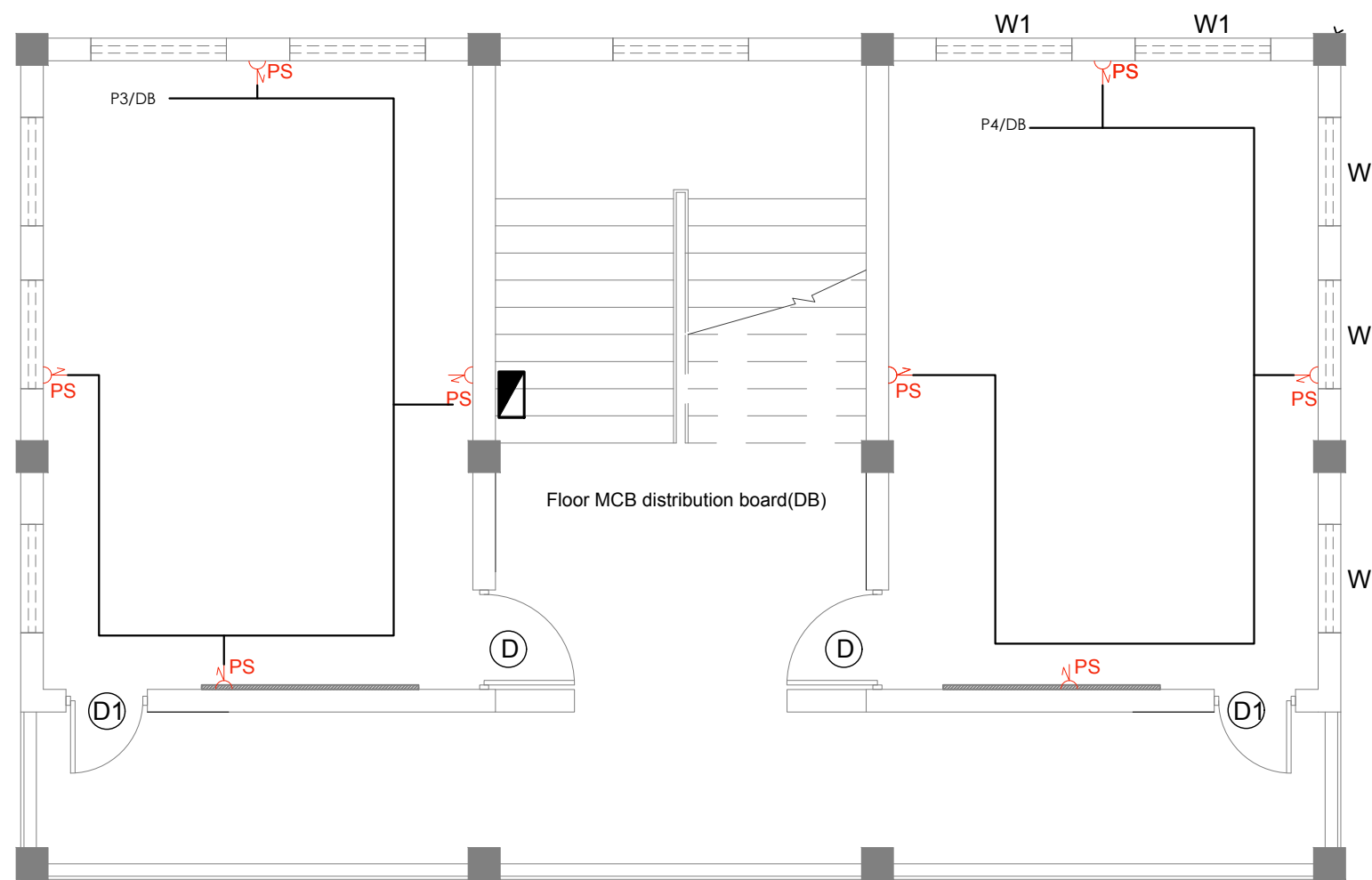
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5	6/16A 5 Pin switch socket outlet	
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7	9W Square type LED Light	

FIRST FLOOR LIGHT LAYOUT PLAN





1. PVC PIPE OF 20 mm dia 2MM THICK FOR CONCEALED WIRING SHOULD BE USED
2. LIGHT/FAN/5A/16A SOCKET POINT 2X2.5 SQ. MM+1X 1.5 SQ MM(LNE)

LEGEND

S.N.	Particulars	Symbol
1	24 W LED Panel Light	
2	Floor MCB distribution board(DB)	
3	One way modular switch(Multi-gang)	
4	Two way modular switch	
5	6/16A 5 Pin switch socket outlet	
6	Ceiling Fan	
7	9W Square type LED Light	

FIRST FLOOR POWER POINT LAYOUT PLAN



