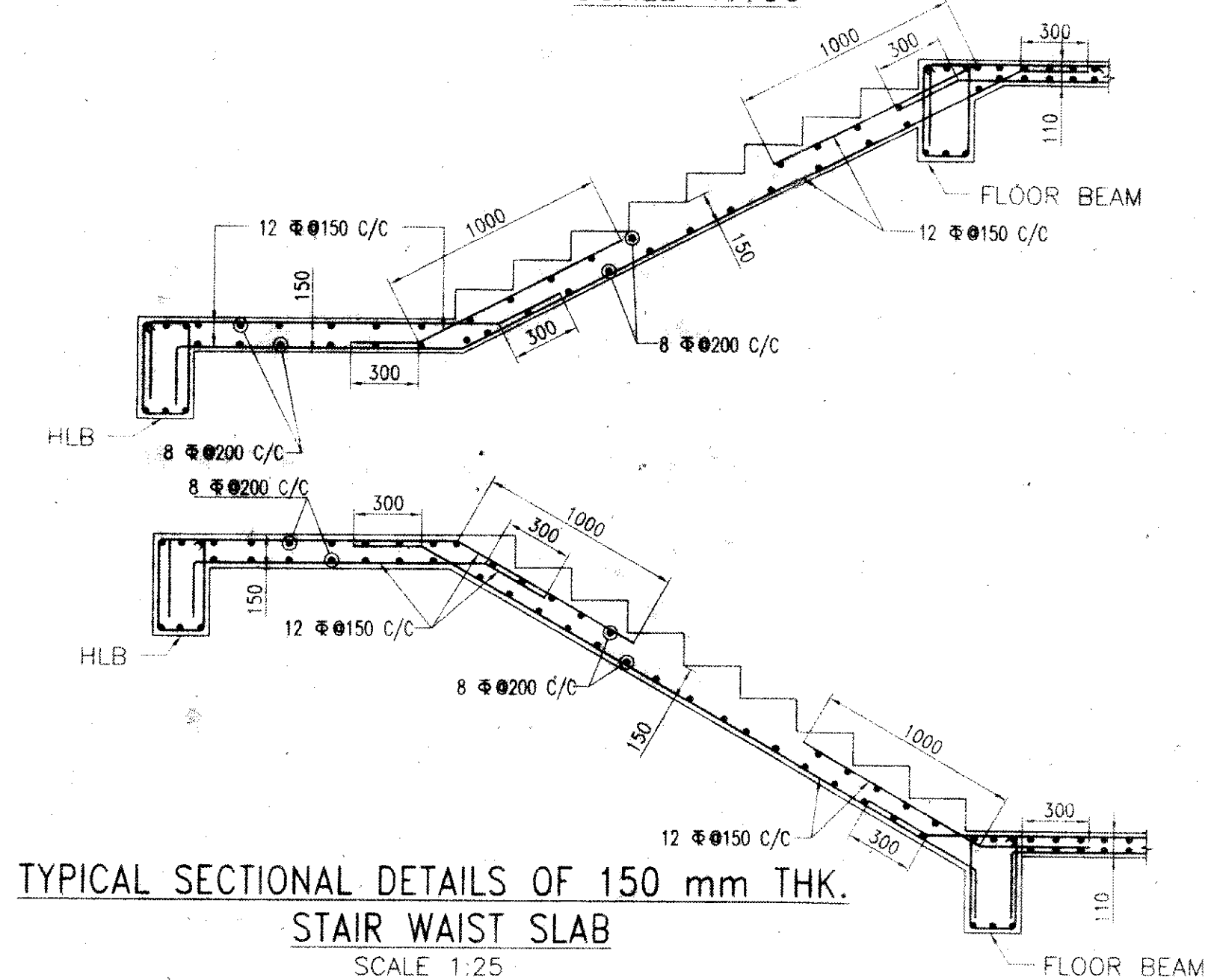
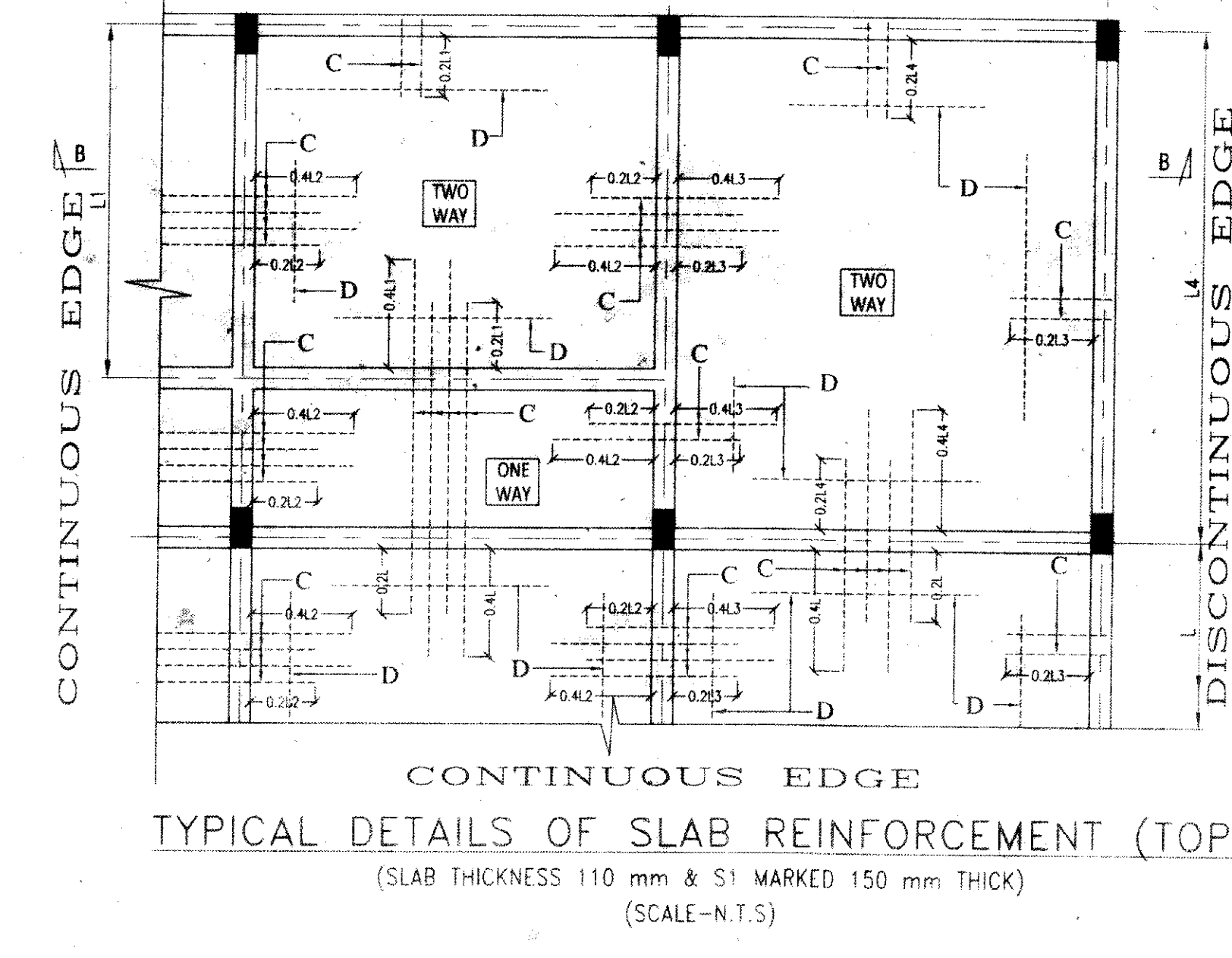


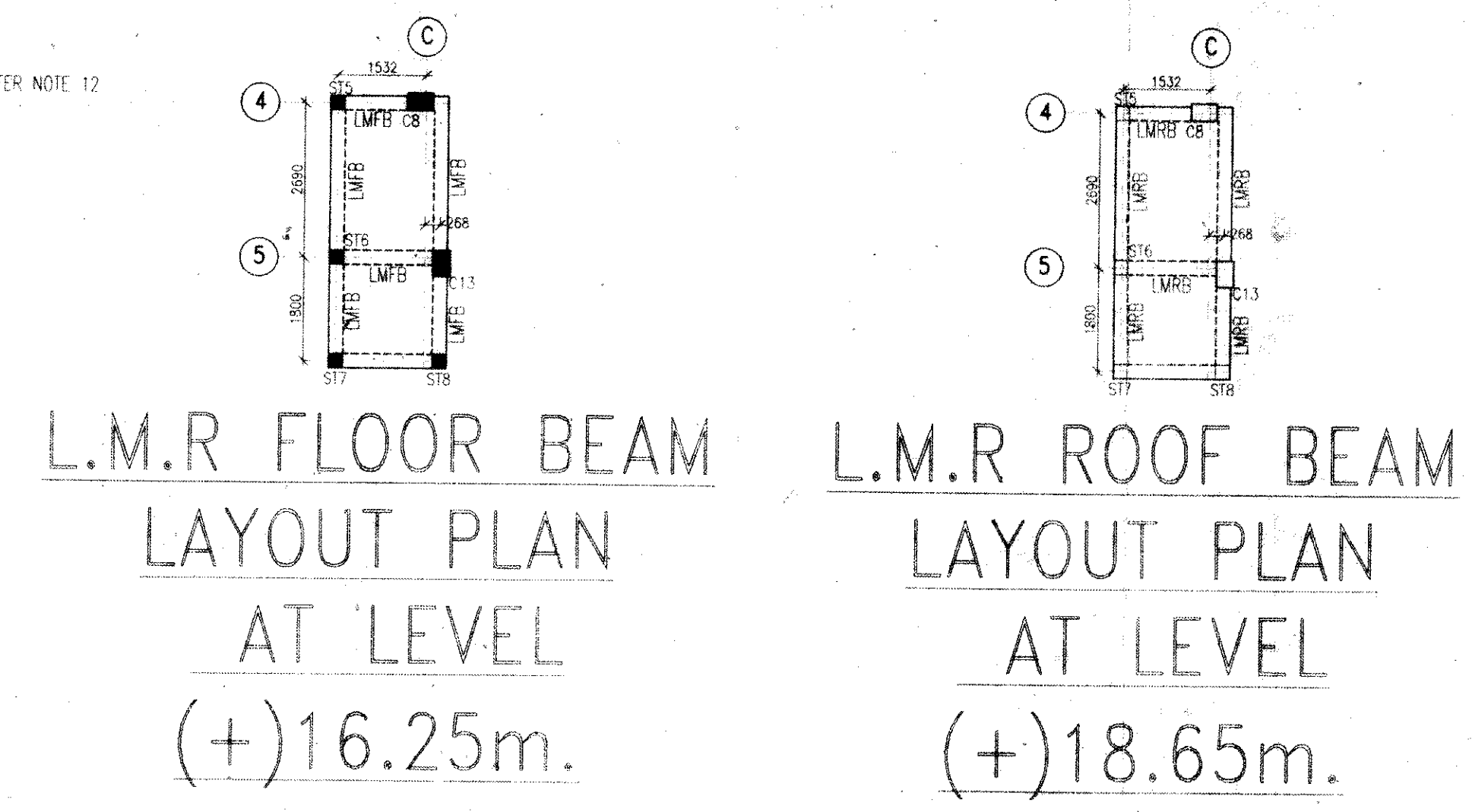
ROOF BEAM LAYOUT PLAN AT LEVEL (+)14.5m.  
S1 MARKED SLABS ARE 150 mm THICK  
ALL OTHER SLABS ARE 110 mm THICK  
SCALE-1:100



TYPICAL SECTIONAL DETAILS OF 150 mm THK. STAIR WAIST SLAB  
SCALE 1:25

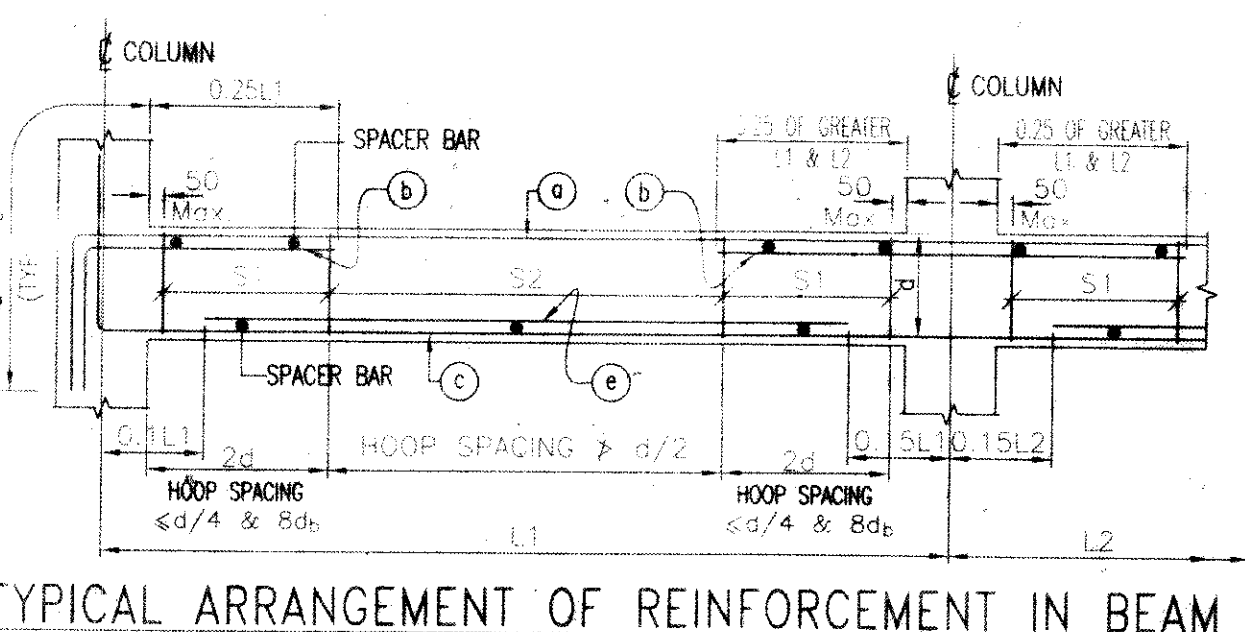


TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)  
(SLAB THICKNESS 110 mm & S1 MARKED 150 mm THICK)  
(SCALE-N.T.S.)

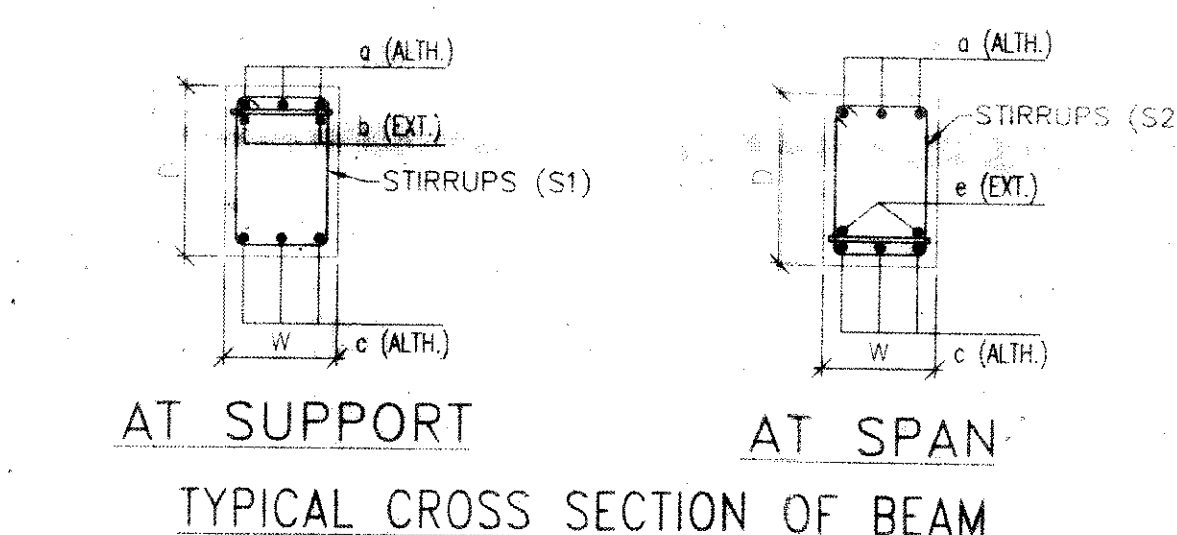


L.M.R FLOOR BEAM LAYOUT PLAN AT LEVEL (+)16.25m.  
MUMTY ROOM BEAM LAYOUT PLAN AT LEVEL (+)16.9m.

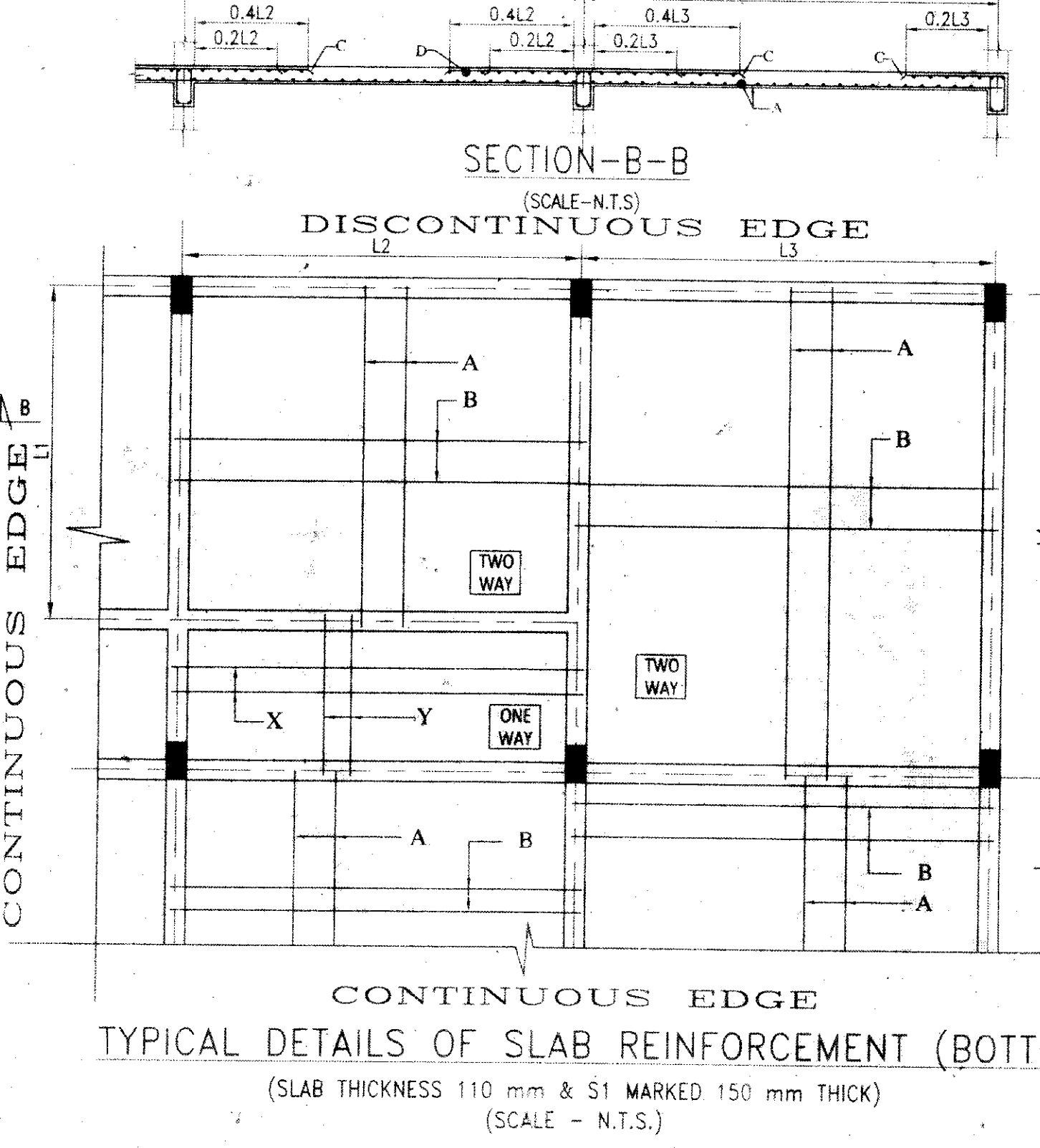
L.M.R ROOF BEAM LAYOUT PLAN AT LEVEL (+)18.65m.  
WATER TANK PLATFORM SLAB AT LEVEL (+)15.5m  
SCALE-1:100



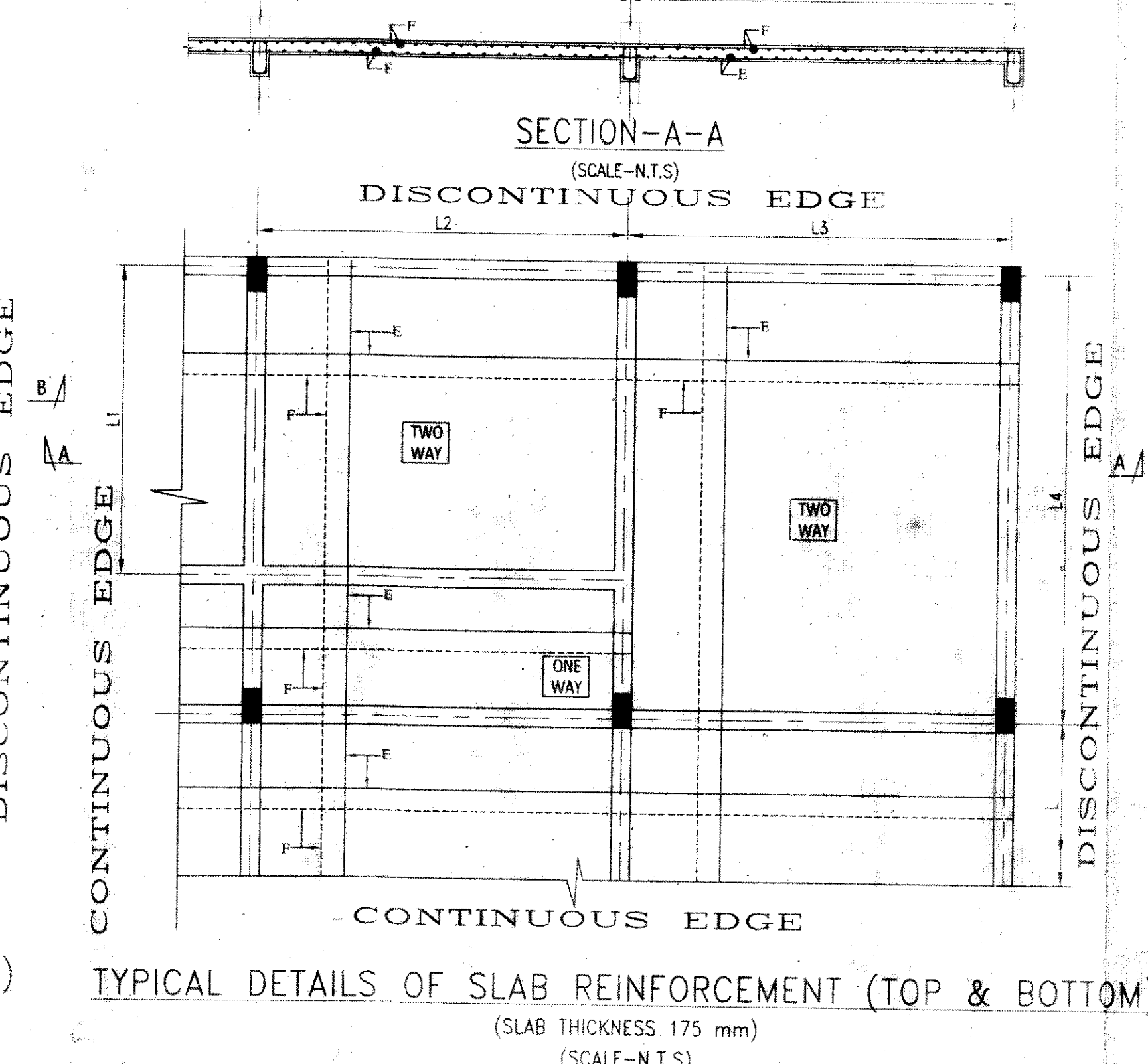
TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM



TYPICAL CROSS SECTION OF BEAM



TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)  
(SLAB THICKNESS 110 mm & S1 MARKED 150 mm THICK)  
(SCALE - N.T.S.)



TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)  
(SLAB THICKNESS 175 mm)  
(SCALE-N.T.S.)

**SPECIAL NOTE :**  
THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.

**SCHEDULE OF ROOF BEAMS, L.M.R FLOOR & ROOF BEAMS, WATER TANK FLOOR BEAMS & MUMTY ROOM BEAMS**

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	
	WIDTH (mm)	DEPTH (mm)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	(AT SUPPORT)	(AT SPAN)
RB1	450	250	4-16 #	-	4-16 #	-	2L-8 #100 C/C	2L-8 #200 C/C
RB2	250	450	3-16 #	-	3-16 #	-	2L-8 #100 C/C	2L-8 #200 C/C
RB3	250	450	3-16 #	2-16 #	3-16 #	-	2L-8 #100 C/C	2L-8 #200 C/C
RB4	250	400	3-12 #	-	3-12 #	-	2L-8 #100 C/C	2L-8 #200 C/C
WTB	250	400	3-16 #	-	3-16 #	-	2L-8 #100 C/C	2L-8 #200 C/C
MWB	250	400	3-12 #	-	3-12 #	-	2L-8 #100 C/C	2L-8 #200 C/C
LMFB	250	400	3-16 #	-	3-16 #	-	2L-8 #100 C/C	2L-8 #200 C/C
LMRB	250	400	3-12 #	-	3-12 #	-	2L-8 #100 C/C	2L-8 #200 C/C

**SCHEDULE OF TYPICAL FLOOR SLABS, ROOF SLAB, MUMTY ROOM & L.M.R ROOF SLABS (110 mm THICK) & S1 MARKED SLABS (150 mm THICK)**

BAR MKD.	REINFORCEMENT	POSITION
A	8# @ 150 mm C/C (ALL THROUGH)	BOT.
B	8# @ 150 mm C/C (ALL THROUGH)	BOT.
X	8# @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8# @ 150 mm C/C (ALL THROUGH)	BOT.
C	8# @ 150 mm C/C (CURTAILMENT)	TOP
D(BINDER)	8# @ 200 mm C/C (WHEREVER REQUIRED)	TOP

**SCHEDULE OF WATER TANK FLOOR SLAB & L.M.R FLOOR SLAB (THICKNESS- 175 mm.)**

BAR MKD.	REINFORCEMENT	POSITION
E	10# @ 200 mm C/C (ALL THROUGH)	BOT.
F	10# @ 200 mm C/C (ALL THROUGH)	TOP

- NOTES**
- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
  - ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER, EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
  - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
  - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TWI BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
  - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50xBAR DIA. CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:  
i) BEAM : 25 mm  
ii) COLUMN : 40 mm
  - GRADE OF CONCRETE FOR SUPERSTRUCTURE & SUBSTRUCTURE WILL BE M25 AS PER IS:456:2000.
  - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
  - DEVELOPMENT LENGTH 50xD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
  - WHEREVER A SUPPORTED MEMBER TERMINATES AT A SUPPORTING MEMBER THE BARS OF THE SUPPORTED MEMBER SHOULD HAVE AN ANCHORAGE OF 50D IN THE SUPPORTING MEMBER.
  - WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
  - IN ALL CANTILEVER SLABS WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UPTO ATLEAST 1.5TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

**TITLE**  
PROPOSED STRUCTURAL DRAWING OF G+4 STORIED COMMERTIAL CUM APARTMENT (RESIDENTIAL) BUILDING OF SHREE BUILDERS OVER R.S. PLOT NO. - 1596 (PART), MOUZA-ARRAH, J.L. NO.- 91, P.S.- KANKSA, DIST. -PASHCHIM BARDHAMAN.  
LAND OWNERS -  
1. SUKUMAR CHOWDHURY (KH.NO-4822)  
2. PRASENJIT KUNDU (KH.NO-4803)  
3. SANATAN JANA (KH.NO-4782)  
4. MADHUMITA MONDAL (KH.NO-4811)

**CERTIFICATE OF ARCHITECT/ENGINEER**  
I DO HEREBY CONFIRM AND CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN PREPARED BY ME KEEPING THE PROVISION OF NBC OF INDIA AND CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECT.  
  
VIJAYA SINGH  
CONSULTING ARCHITECT  
DMC REGISTERED  
LIC NO. - DMC/99/99  
  
VIJAYA SINGH ZUMDER  
CONSULTING ARCHITECT  
DMC REGISTERED  
LIC NO. - DMC/99/99

**SIGNATURE OF GEOTECHNICAL ENGINEER**  
THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT

**SIGNATURE OF STRUCTURAL ENGINEER**  
Soumya 14/10/19  
Soumya  
B.TECH (CIVIL)  
CIVIL ENGINEER, NKDA  
LICENCE NO. - CVER/NKDA/10/00174

**SIGNATURE OF VETTING AUTHORITY**  
CHECKED & VETTED  
DR. DIPANKAR CHANDRANATHY  
DIRECTOR GENERAL, CIVIL ENGINEERING DIVISION  
JAWAHAR UNIVERSITY, ENGINEERING DEPARTMENT  
P.O. BOX 10000, SURAT  
M. TECH (CIVIL) GOLD MEDALIST  
M. TECH (CIVIL) GOLD MEDALIST  
P.O. BOX 10000, SURAT  
(M) 983185252 & 943293143  
EMAIL: drdipankar@gmail.com

**SIGNATURE OF PANCHAYAT PRADHAN**  
Approved vide memo no - DE/PEBZP/1986  
Dt - 26/12/19 of Assistant Engineer of  
Paschim Bardhaman Zilla Parishad.  
  
APPROVED  
Prasail Kunder  
Madhumita Mondal

**CERTIFICATE OF OWNER**  
THIS IS TO CERTIFY THAT I SHALL NOT ON A LATER DATE, MAKE ANY ADDITION OR ALTERATION TO THIS PLAN. THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NBC OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND LATER CONSTRUCTION OF BUILDING.  
  
Sukumar Chowdhury  
Prasail Kunder  
Madhumita Mondal  
Sanatan Jana

**DRAWING TITLE**  
ROOF & ABOVE ROOF BEAM LAYOUT PLAN AND SCHEDULE, STAIR DETAILS, SLAB REINFORCEMENT SCHEDULE  
SCALE-1:100 OR AS SHOWN  
DATE- 01.10.2019  
SHEET NO. -3 OF 3