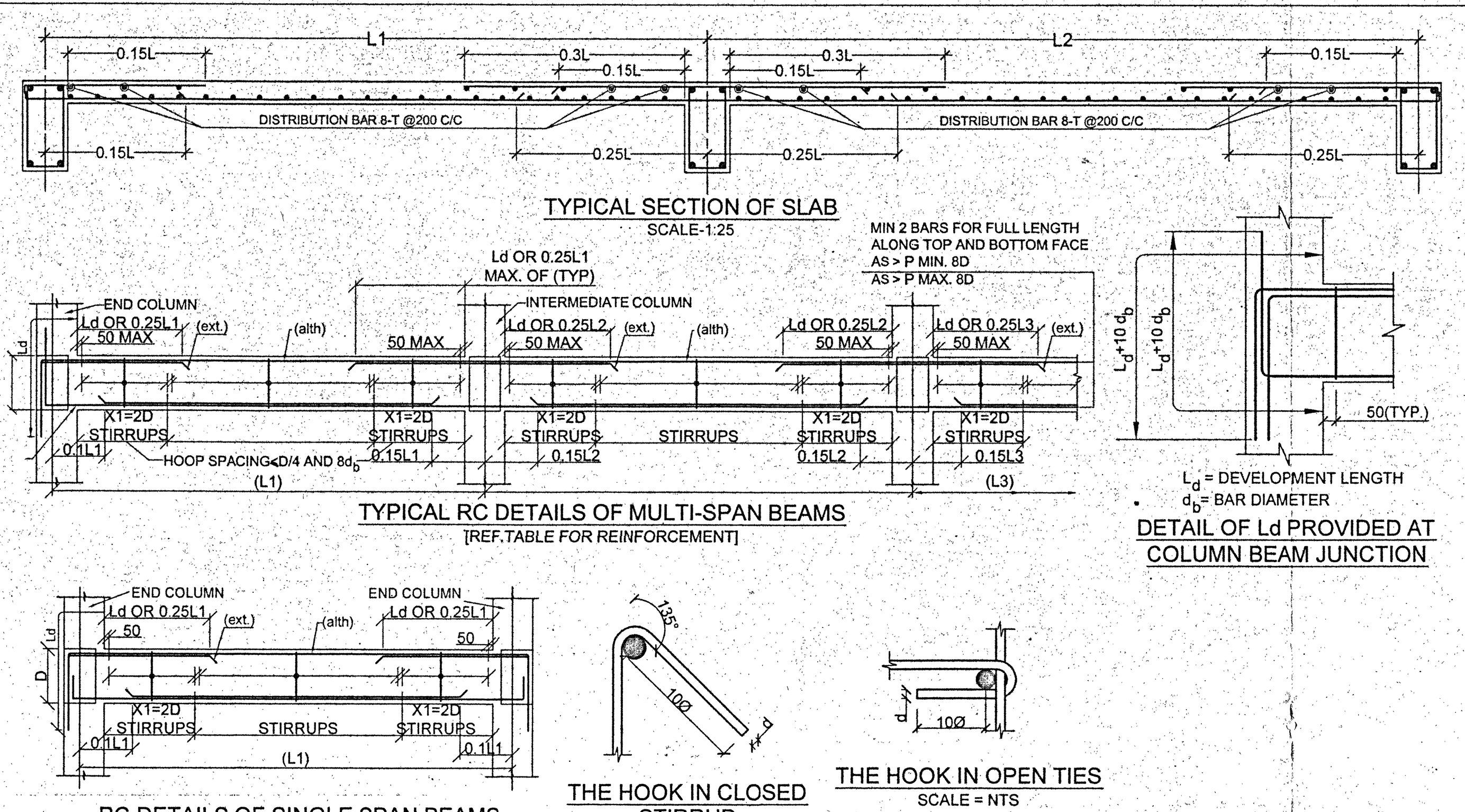


TYPICAL SECTION OF SLAB
SCALE:-1:25

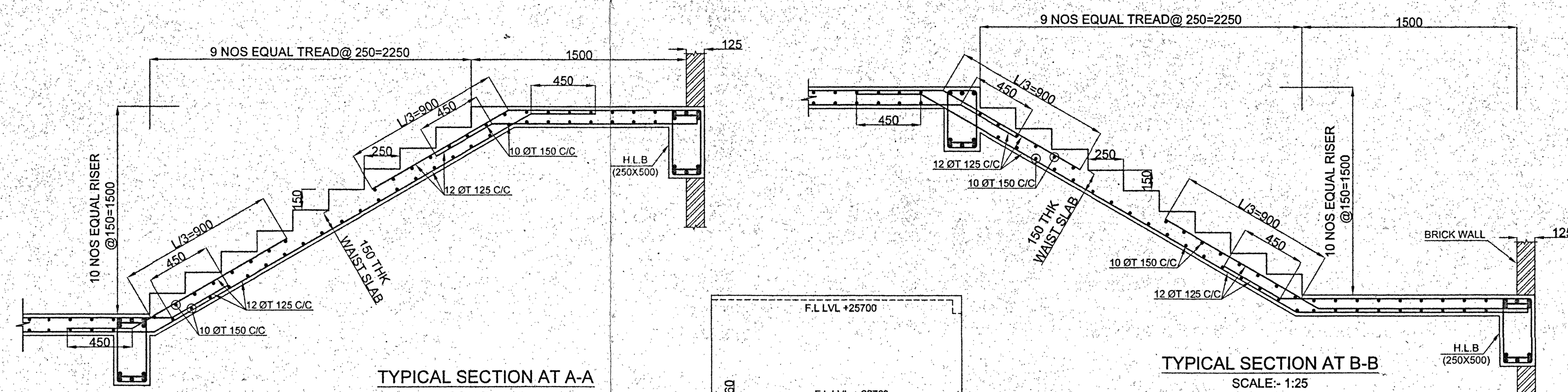
TYPICAL RC DETAILS OF MULTI-SPAN BEAMS
[REF.TABLE FOR REINFORCEMENT]

DETAIL OF Ld PROVIDED AT COLUMN BEAM JUNCTION

RC DETAILS OF SINGLE SPAN BEAMS
[REF.TABLE FOR REINFORCEMENT]

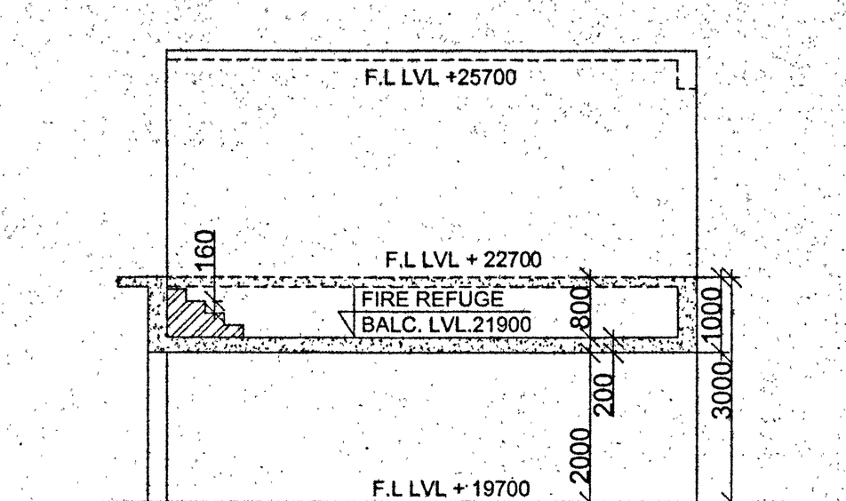
THE HOOK IN CLOSED STIRRUP
SCALE = NTS

THE HOOK IN OPEN TIES
SCALE = NTS

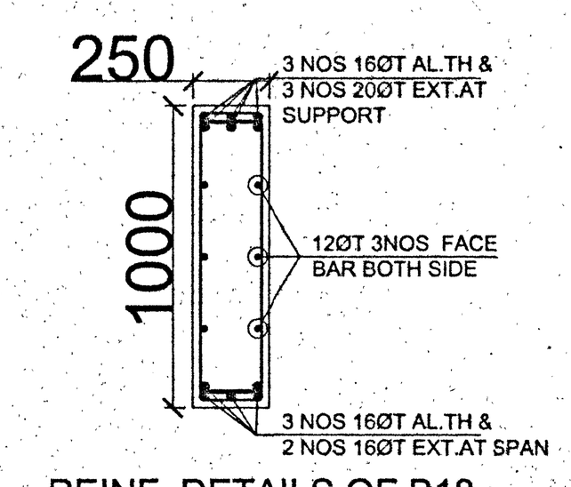


TYPICAL SECTION AT A-A
SCALE:- 1:25

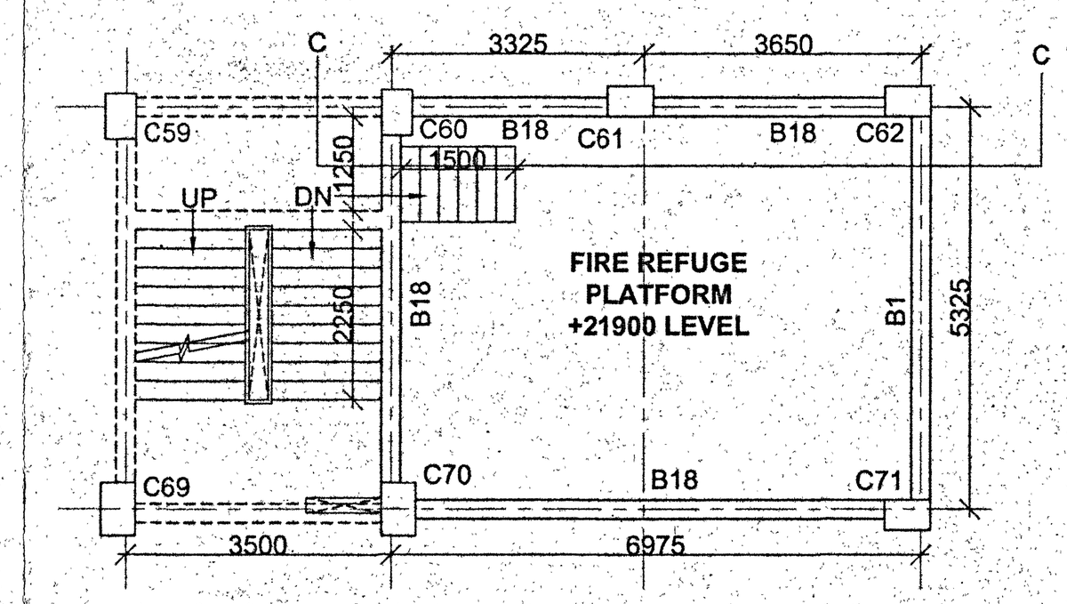
TYPICAL SECTION AT B-B
SCALE:- 1:25



SECTION - C-C



REINF. DETAILS OF B18
SCALE 1:25



STRUCTURAL BEAM LAYOUT OF FIRE REFUGE PLATFORM
(LVL.- +21900,33900,45900)

SCHEDULE OF SLAB			
SLAB MKD.	DEPTH	REINFORCEMENT	
		LONG DIRECTION	SHORT DIRECTION
ALL SLAB	125	8T @ 150 C/C	8T @ 150 C/C
FIRE REFUSAL SLAB (RESL.)	200	8T @ 150 C/C	8T @ 150 C/C

SCHEDULE OF FLOOR BEAM

BEAM MKD.	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	
	WIDTH	DEPTH	ALL THROUGH	EXTRA AT SUPPORT	ALL THROUGH	EXTRA AT SPAN	AT SUPPORTS	AT SPANS
B1	250	500	3 - 16ØT	--	3 - 16ØT	--	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
B2	250	500	3 - 16ØT	3 - 16ØT	3 - 16ØT	--	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B3	250	500	3 - 16ØT	3 - 16ØT	3 - 16ØT	2 - 16ØT	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B4	250	500	3 - 16ØT	3 - 20ØT	3 - 16ØT	2 - 16ØT	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B5	250	500	3 - 16ØT	--	3 - 16ØT	2 - 16ØT	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B6	250	500	3 - 20ØT	2 - 25ØT	3 - 20ØT	--	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B7	250	500	3 - 20ØT	2 - 20ØT	3 - 20ØT	--	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
B8	250	450	3 - 16ØT	3 - 20ØT	3 - 16ØT	2 - 16ØT	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B9	250	500	3 - 16ØT	3 - 16ØT	3 - 16ØT	3 - 16ØT	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B10	250	500	3 - 16ØT	3 - 20ØT	3 - 16ØT	--	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B11	250	450	3 - 16ØT	--	3 - 16ØT	--	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B12	250	500	3 - 16ØT	3 - 20ØT	3 - 16ØT	3 - 16ØT	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
B13	250	500	3 - 20ØT	--	3 - 20ØT	--	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
B14	250	500	3 - 20ØT	2 - 25ØT	3 - 20ØT	2 - 20ØT	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
B15	250	500	3 - 20ØT	3 - 16ØT	3 - 20ØT	3 - 16ØT	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
B16	250	450	3 - 20ØT	--	3 - 20ØT	--	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
B17	250	450	3 - 20ØT	3 - 20ØT	3 - 20ØT	3 - 16ØT	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
B18	250	1000	3 - 16ØT	3 - 20ØT	3 - 16ØT	2 - 16ØT	2L 8Ø @ 75C/C	2L 8Ø @ 150C/C
H.L.B	250	500	3 - 20ØT	2- 16ØT	3 - 20ØT	2 - 16ØT	2L 8Ø @ 75 C/C	2L 8Ø @ 150C/C
C.B.	600	125	5 - 12ØT	--	5 - 12ØT	--	2L 8Ø @ 150 C/C	2L 8Ø @ 150C/C
C.B1.	700	125	5 - 12ØT	--	5 - 12ØT	--	2L 8Ø @ 150 C/C	2L 8Ø @ 150C/C

NOTES :-

1. ALL DIMENSIONS ARE IN MM. AND LEVELS ARE IN M. UNLESS OTHERWISE MENTIONED.
2. NO DIMENSION ARE TO BE SCALED OUT FROM THE DRAWING, ONLY FIGURE WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. DIMENSION ARE TO BE VERIFIED AT SITE BEFORE EXECUTION OF WORK.
4. VARIOUS APPLICABLE PROVISIONS OF I.S. 456-2000 SHALL BE FOLLOWED FOR R.C.C. WORK.
5. GRADE OF CONCRETE SHALL BE M30 NOMINAL MIX.
6. ALL REINFORCEMENT SHALL BE T.M.T BARS Fe-500D
7. REINFORCEMENT SHALL HAVE NOMINAL COVER EXCLUDING PLASTER OR OTHER DECORATIVE FINISH AS FOLLOWS : 50 MM IN PILE AND PILE CAP, 40MM IN COLUMN, 25MM IN BEAM, 20MM IN SLAB,
8. NOT MORE THAN ONE THIRD OF TOTAL NOS OF MAIN BARS SHALL BE PLACED OVER LAPPED AT ANY SECTION OF COLUMN OR BEAMS.
9. DEVELOPMENT LENGTH , LAP LENGTH, ANCHORAGE LENGTH (L_D) FOR REINFORCEMENT BARS SHALL BE 50 TIMES DIAMETER OF BARS AT TENSION ZONES & 40 TIMES DIAMETER OB BARS AT COMPRESSION ZONES.
10. LAP SHALL BE STAGGERED AND AVOIDED AT THE POINTS OF MAXIMUM BENDING
11. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION IN COLUMN AND BEAMS.
12. LAP SPLICED SHALL BE IN CENTRAL HALF OF COLUMN LENGTH AND SHALL PROPORTIONED AS TENSION SPLICE.
13. IN COLUMN REINFORCEMENT, LONGER DIAMETER REINFORCEMENT BAR SHALL BE PLACED AT CORNER WHENEVER TWO DIFFERENT DIAMETER OF BAR ARE USED.
14. SLAB SHALL BE CAST MONOLITHICALLY WITH BEAM UNLESS SPECIFIED.
15. ALL REINFORCEMENT ARRANGEMENT CONFORM TO SP 34: 1987
16. USE P.C.C. IN A RATIO OF 1:3:6.
17. HIGHER SIDE DIA. SHALL BE USED AS SPACER BAR WHENEVER REQUIRED.
18. STRUCTURAL DESIGN HAS BEEN DONE BY CONSIDERING 'AAC' BRICK WORKS ON ALL FLOORS.

(G+9) to (G+15)
Approved Plan No. 79 On Meeting No. 12/2021-22 Date 18/02/2022
Valid upto 21/03/2026
Pradhan 22/03/24
Jemua Gram Panchayat

SIGNATURE OF OWNER

RUPAK KUMAR BANERJEE
B.C.E., M.E.M.I.E., M.I.G.S.
STRUCTURAL REVIEWER
ESR-(I) 144/2 (K.M.C.)
STRV/NKDA/22/00008
BM/S.T-REVIEWER/23-24/129
DMC/BPD/ST-Rev/37

SIGNATURE OF STRUCTURAL REVIEWER

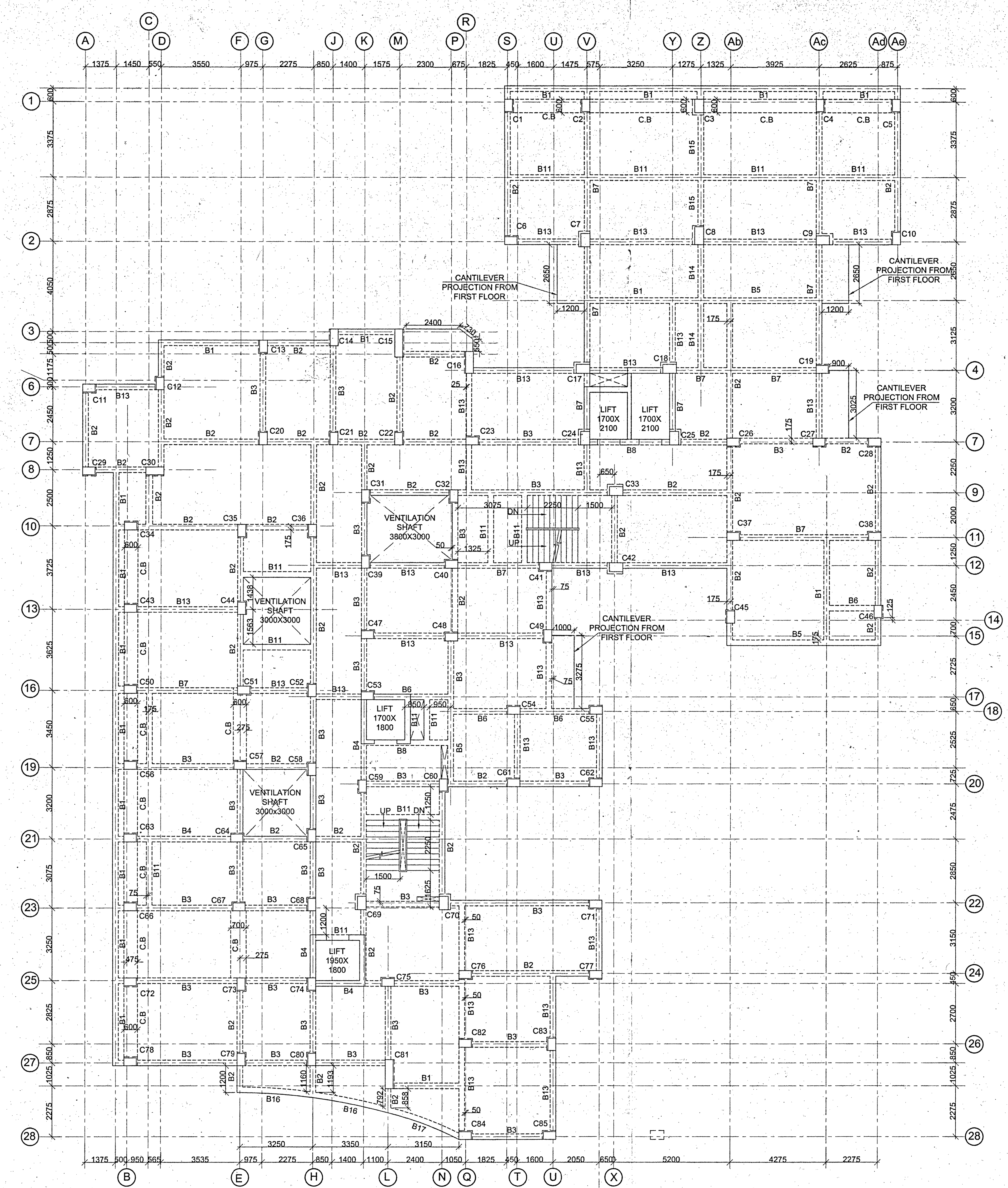
CERTIFICATE OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C OF INDIA , CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT.

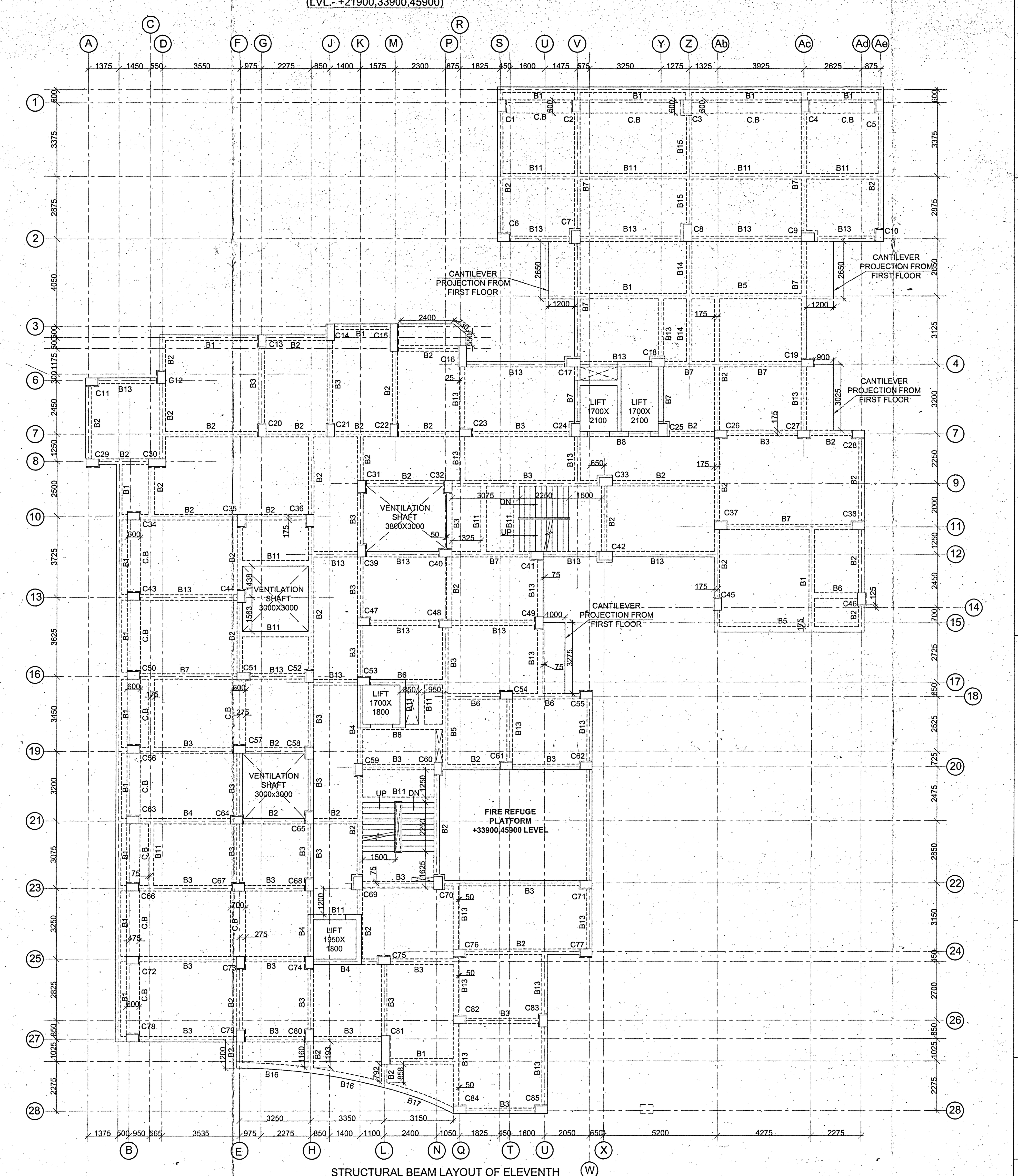
Ar. VIJAYA SINGH MAZUMDER
COA Registered
CA/2021/134276
9332802166 / 9476426106

Subhradeep Chakraborty
BCE (JU) MIE
Chartered Engineer
ESE No.-204(1) of KMC
DMC/BPD/ST-1/007

SIGNATURE OF STRUCTURAL ENGINEER



STRUCTURAL BEAM LAYOUT OF TENTH, TWELVETH , FORTEENTH FLOOR AND ROOF
ALL SLAB ARE 125MM THK
SCALE 1:100



STRUCTURAL BEAM LAYOUT OF ELEVENTH AND FIFTEENTH FLOOR .
FIRE REFUSE SLAB ARE 200MM THK.
SCALE 1:100

PROJECT

STRUCTURAL DRAWING OF PROPOSED G+XV STORIED RESIDENTIAL BUILDING AT MOUZA -TETIKHOLA, PLOT NO. R.S. - 15,17,18,19,20,21,22 & 23 PLOT NO. - L.R. 123 &147, J.L. NO.-111, P.S. - NEWTOWN SHIP,KHATIAN NO. 1500&1289/2, DURGAPORE.

CONSULTANT:
ASTHA
GEOTECHNICAL . SURVEYING . STRUCTURAL
CIVIL AND ARCHITECHTURAL CONSULTANCY SERVICES
258 / 4, A . P . C . ROAD , KOLKATA - 700 006 .
WEBSITE : www.asthaconsultancy.in
MAIL ID : asthacons@gmail.com

DRAWING NO.- AST/STR/DURG/2021/01	SHEET TITLE : STRUCTURAL LAYOUT AND DETAILS OF TYPICAL FLOORS.	SIZE A0 / REV. R0
DATE :- 28.12.2023		SCALE 1:25, 1:50 1:100
		SHEET/ STR/ 03 OF 03