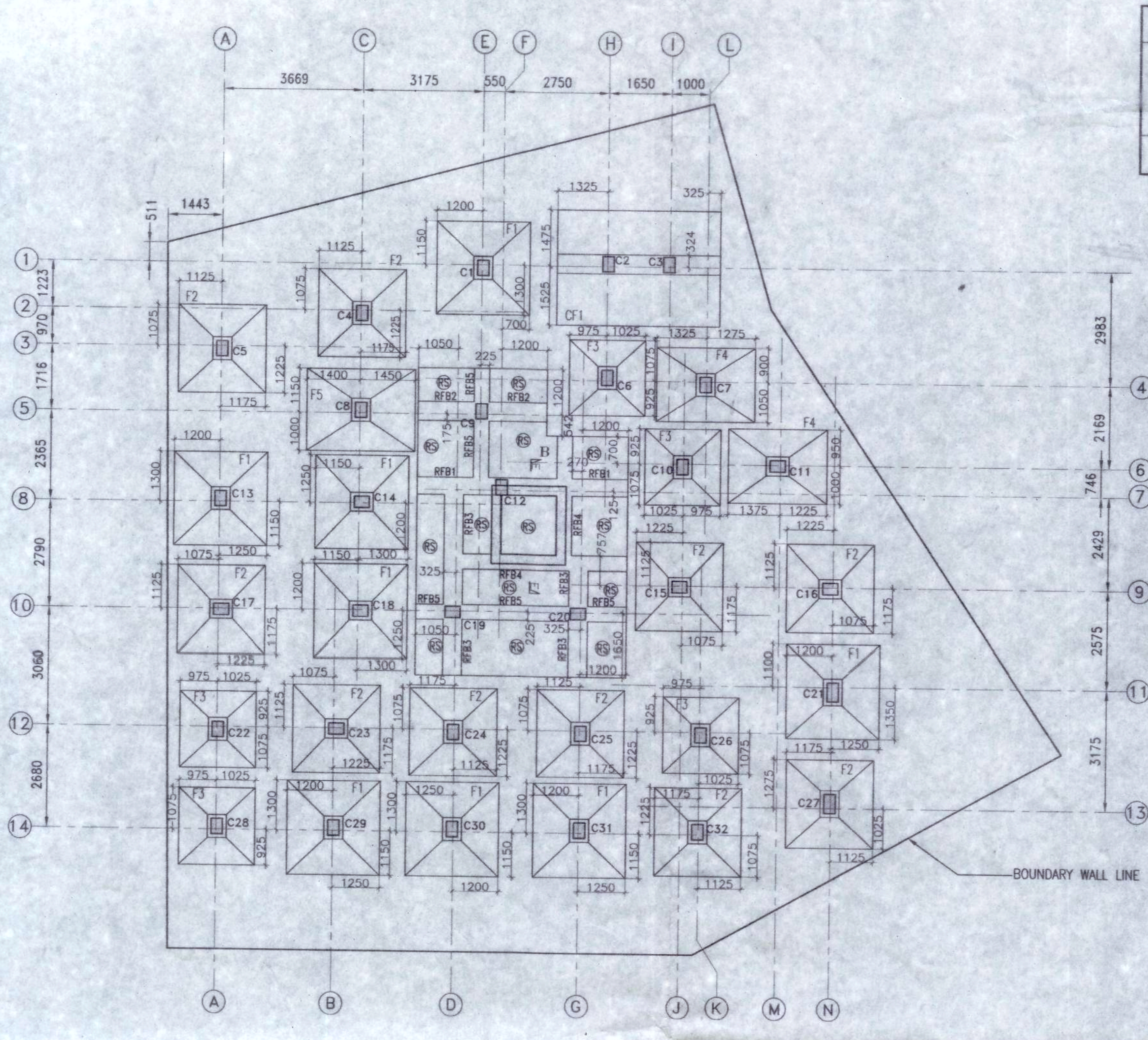


FOUNDATION LAYOUT PLAN

RS MARKED SLABS ARE 450mm THK.

SCALE-1:100

NOTES PROVIDE 400 mm SAND CUSHION AS PER SOIL REPORT

SCHEDULE FOR COMBINED FOUNDATION

FOUNDATION MARKED	NUMBER	FOUNDATION SIZE. TOTAL LENGTH L (mm)	WIDTH C (mm)	THICKNESS T1 (mm)	DEPTH Df (mm)	FOUNDATION REINFORCEMENT DETAILS: BOTTOM REINFORCEMENT ALONG SHORT DIRECTION (a)	BOTTOM REINFORCEMENT ALONG LONG DIRECTION (b)	TOP REINFORCEMENT ALONG SHORT DIRECTION (c)	TOP REINFORCEMENT ALONG LONG DIRECTION (d)	FOUNDATION BEAM SIZE LENGTH L (mm)	WIDTH W (mm)	DEPTH D (mm)	FOUNDATION BEAM REINFORCEMENT DETAIL: BOTTOM REINFORCEMENT ALTHROUGH	BOTTOM REINFORCEMENT EXTRA	TOP REINFORCEMENT ALTHROUGH	TOP REINFORCEMENT EXTRA	STIRRUPS SPACING (mm)
CF1	01	4300	3000	450	2000	16 Φ@ 100 C/C	10 Φ@ 100 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C	4300	500	500	5-12 Φ	3-12 Φ	5-12 Φ	-	4L-8 Φ@200 C/C

SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE WIDTH (m)	LENGTH (m)	THICKNESS D1 (mm)	THICKNESS D (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT ALONG SHORT DIRECTION	BOTTOM REINFORCEMENT ALONG LONG DIRECTION	TOP REINFORCEMENT ALONG SHORT DIRECTION	TOP REINFORCEMENT ALONG LONG DIRECTION
C1,C13,C14,C18, C21,C29,C30,C31	F1	08	2.45	2.45	500	350	2000	12 Φ@ 125 C/C	12 Φ@ 125 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C
C4,C5,C15,C16, C17,C23,C24,C25, C27,C32	F2	10	2.3	2.3	450	300	2000	12 Φ@ 125 C/C	12 Φ@ 125 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C
C6,C10,C22,C26, C28	F3	05	2.0	2.0	400	250	2000	12 Φ@ 100 C/C	12 Φ@ 100 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C
C7,C11	F4	02	2.6	1.95	450	300	2000	12 Φ@ 200 C/C	16 Φ@ 125 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C
C8	F5	01	2.85	2.15	400	250	2000	12 Φ@ 200 C/C	16 Φ@ 100 C/C	8 Φ@ 300 C/C	8 Φ@ 300 C/C

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M^2)
ISOLATED	2.45m. x 2.45m.	14.6
	2.30m. x 2.30m.	14.8
	2.0m. x 2.0m.	15.2
	2.60m. x 1.95m.	13.6
	2.85m. x 2.15m.	13.9
CF1	AS SHOWN	12.0
RAFT	AS SHOWN	12.2

SPECIAL NOTE:-

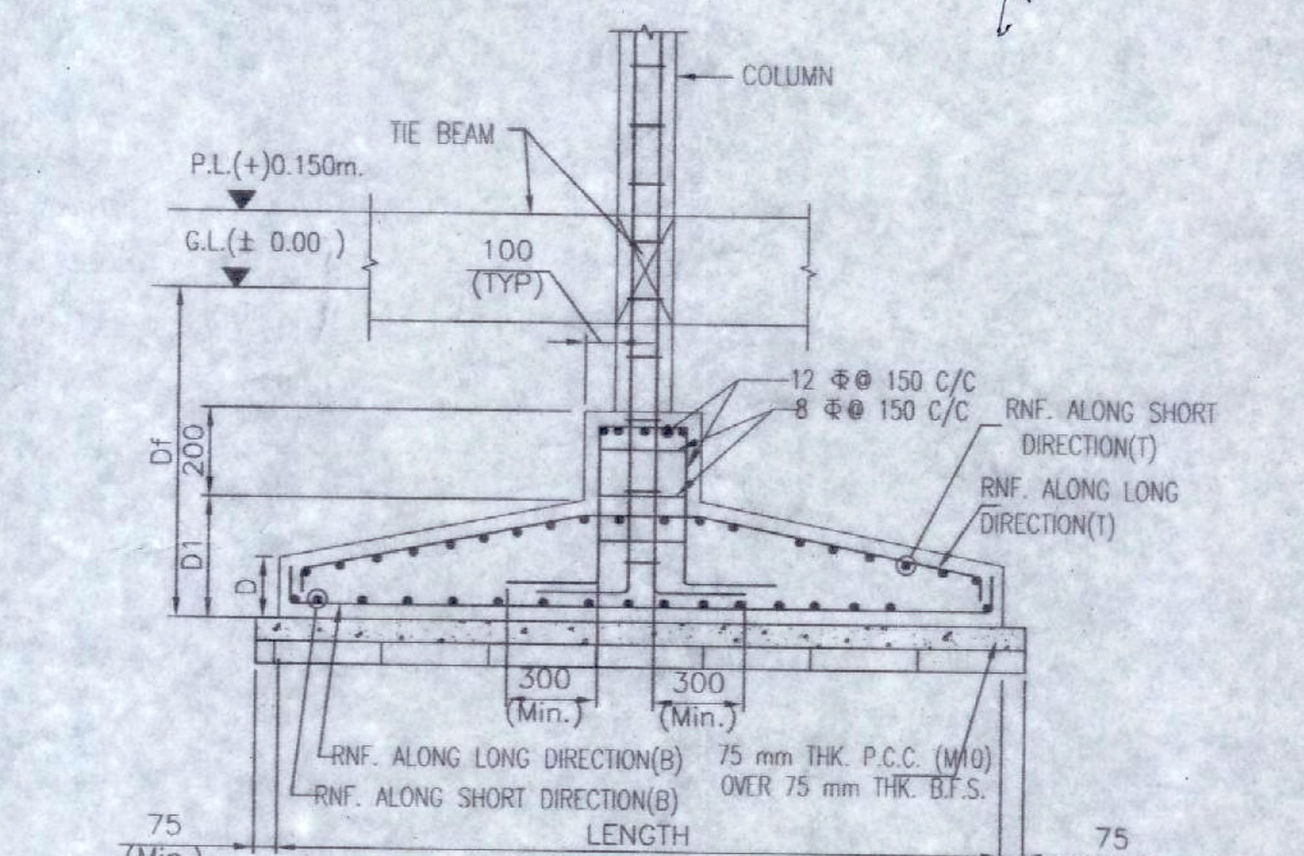
THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.

SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	DEPTH (D) (mm)	TOP REINORCEMENT ALTHROUGH (a)	TOP REINORCEMENT EXTRA AT SPAN (b)	BOTTOM REINORCEMENT ALTHROUGH (c)	BOTTOM REINORCEMENT EXTRA AT SUPPORT (e)	STIRRUPS
RFB1	450	500	4-12 Φ	-	4-12 Φ	4-12 Φ	4L-8 Φ@200 C/C
RFB2	500	500	5-12 Φ	-	5-12 Φ	4-16 Φ	4L-8 Φ@100 C/C
RFB3	500	500	4-12 Φ	-	4-12 Φ	4-12 Φ	4L-8 Φ@200 C/C
RFB4	400	500	3-16 Φ		3-16 Φ	-	4L-8 Φ@200 C/C
RFB5	400	500	4-12 Φ	-	4-12 Φ	3-12 Φ	4L-10 Φ@125 C/C

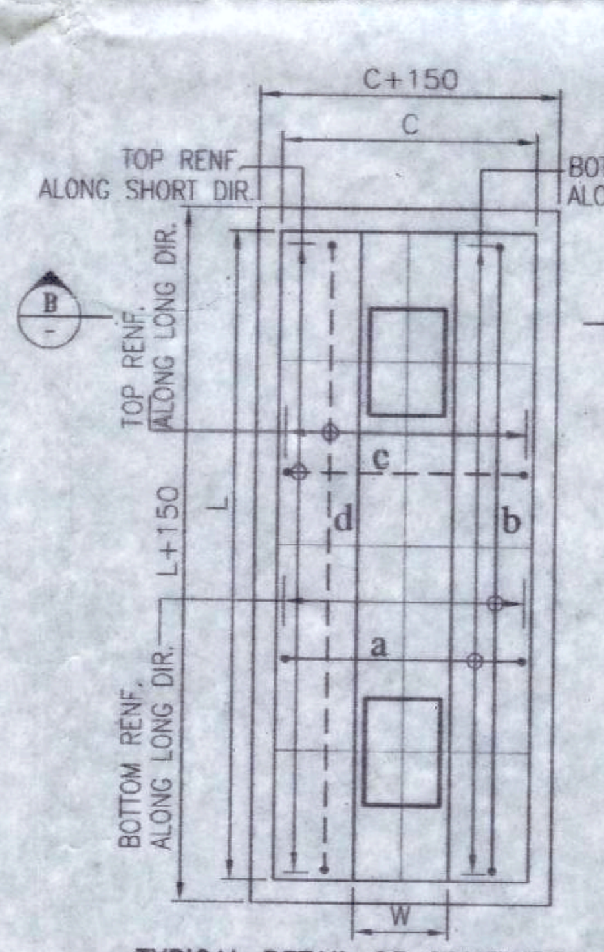
SCHEDULE OF RAFT SLAB

SLAB MARKED	SLAB THICKNESS (mm)	BOTTOM REINFORCEMENT ALONG SHORT DIRECTION	BOTTOM REINFORCEMENT ALONG LONG DIRECTION	TOP REINFORCEMENT ALONG SHORT DIRECTION	TOP REINFORCEMENT ALONG LONG DIRECTION
RS	450	12 Φ@ 125 C/C	12 Φ@ 125 C/C	12 Φ@ 125 C/C	12 Φ@ 125 C/C

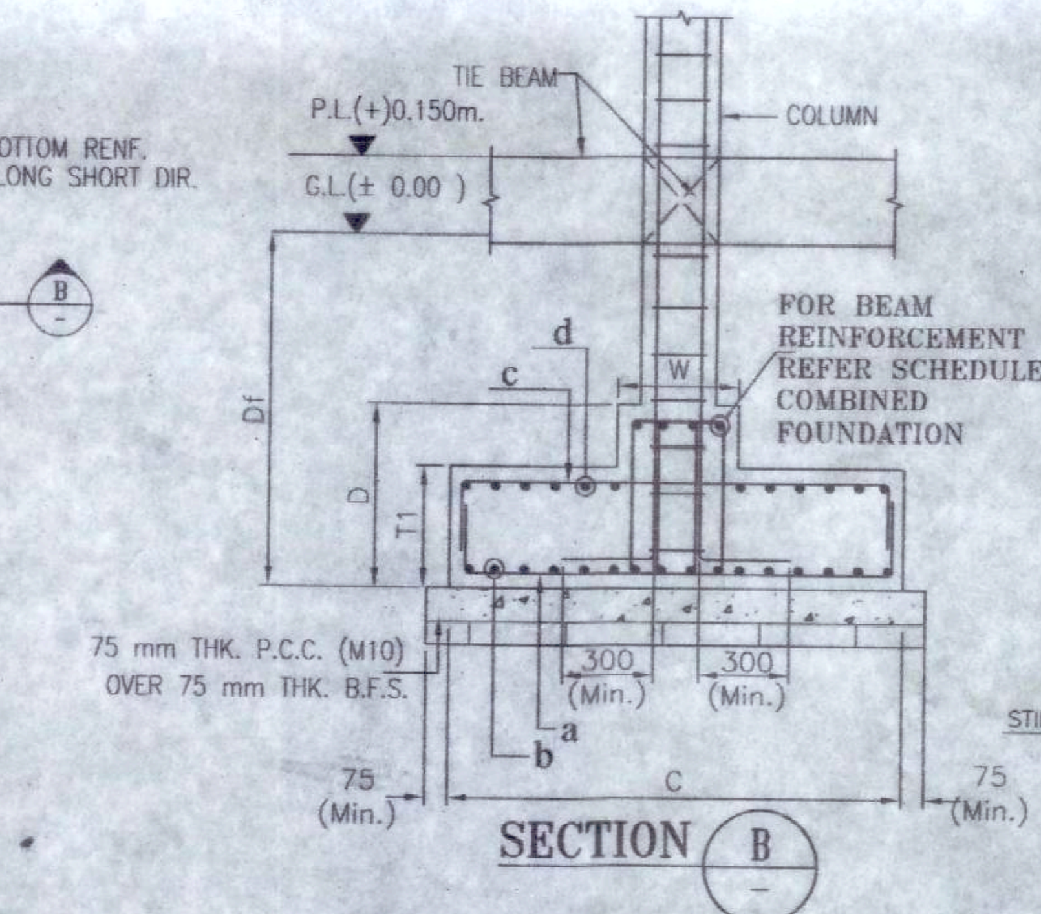


SECTION -A-A

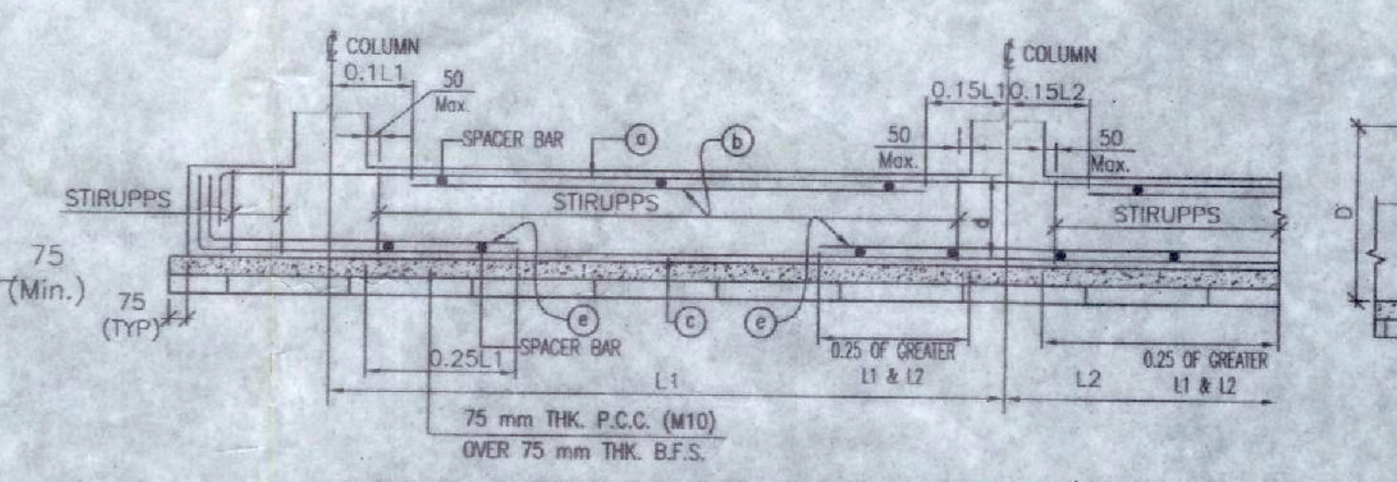
SCALE N.T.S.



TYPICAL DETAIL OF COMBINED FOUNDATION

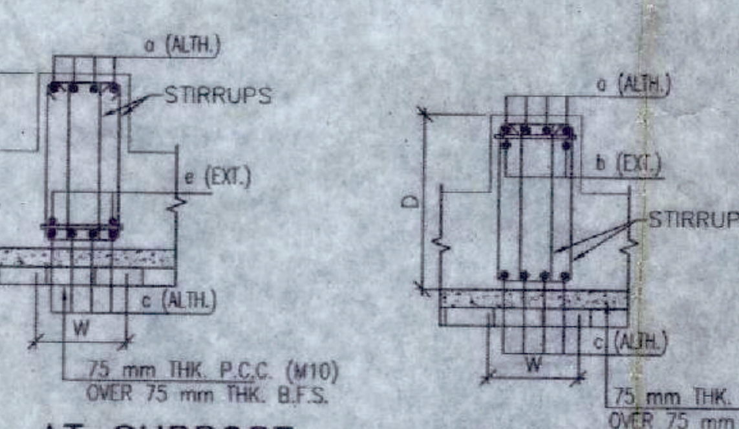


REINFORCEMENT DETAIL OF COMBINED FOUNDATION



TYPICAL ARRANGEMENT OF REINFORCEMENT IN FOUNDATION BEAM

(AS PER SP 34-1987)



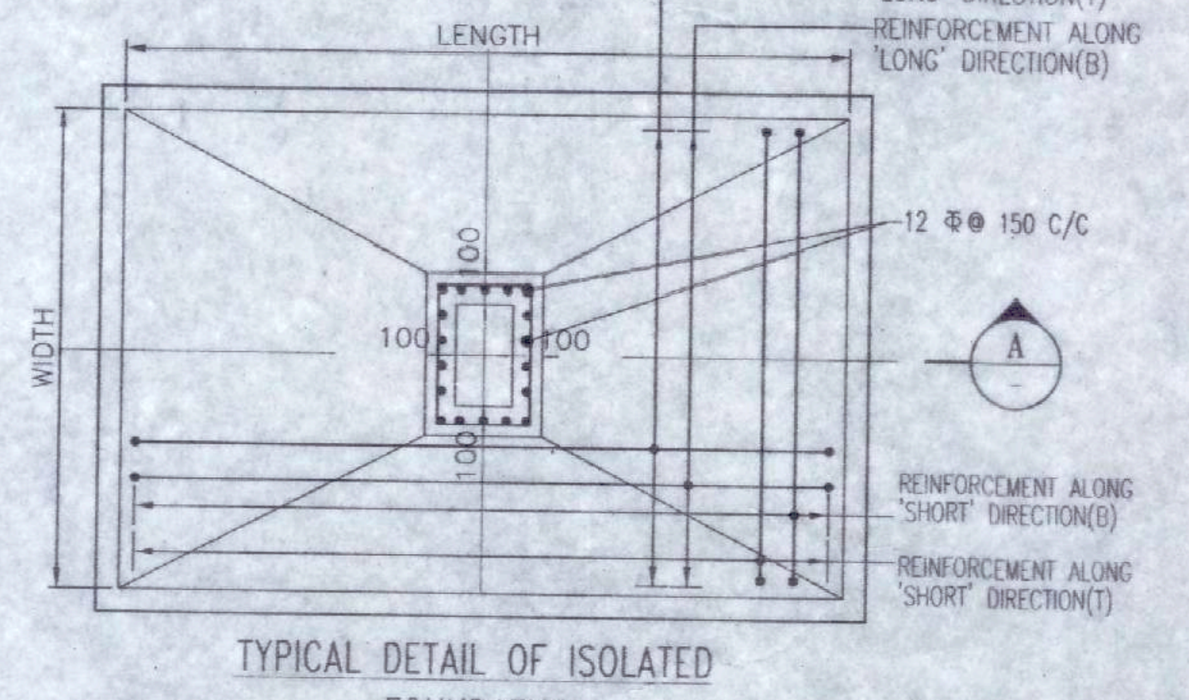
AT SUPPORT AT SPAN

TYPICAL CROSS SECTION OF FOUNDATION BEAM

SCALE - N.T.S.

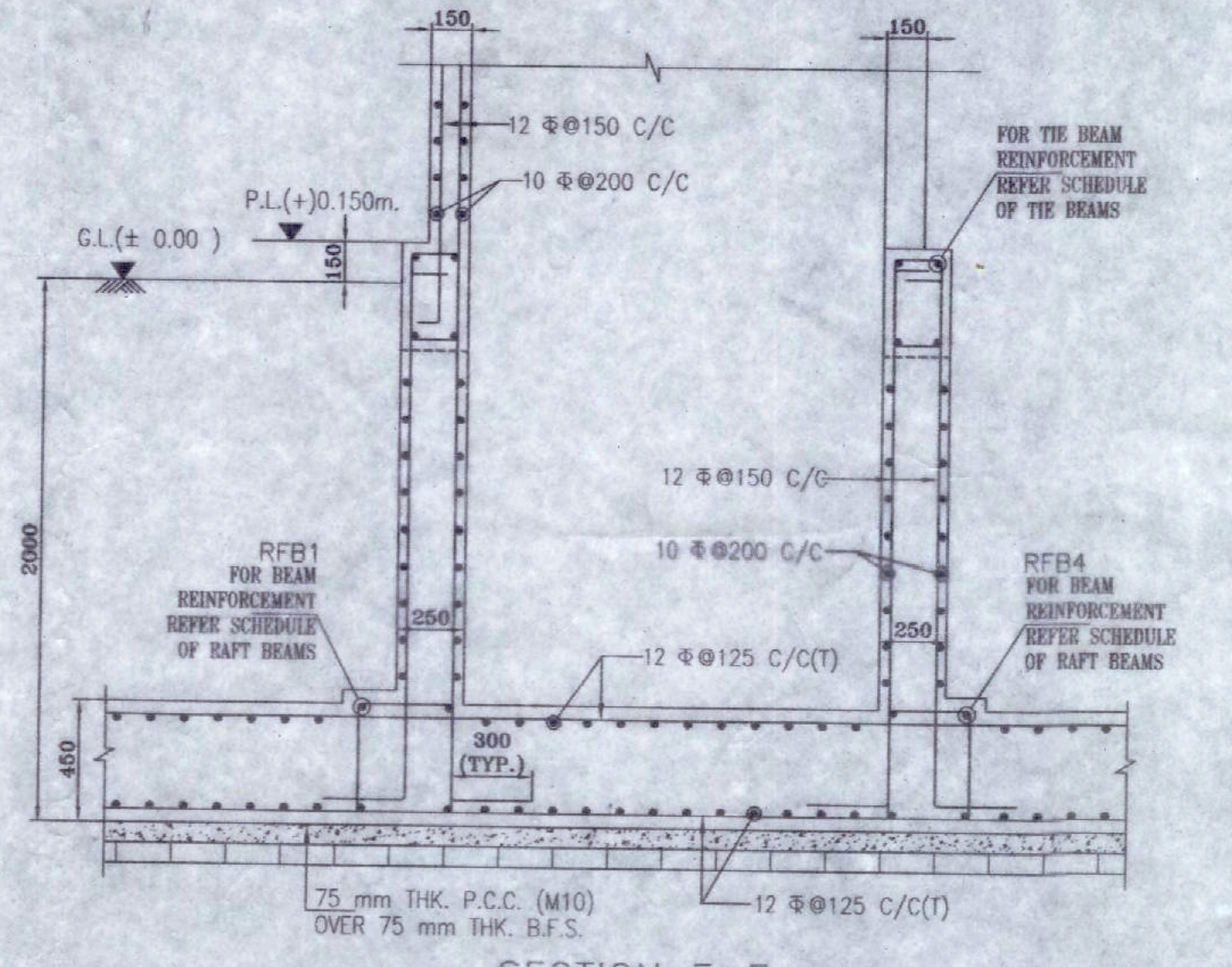
SPECIAL NOTES:-

1. 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.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



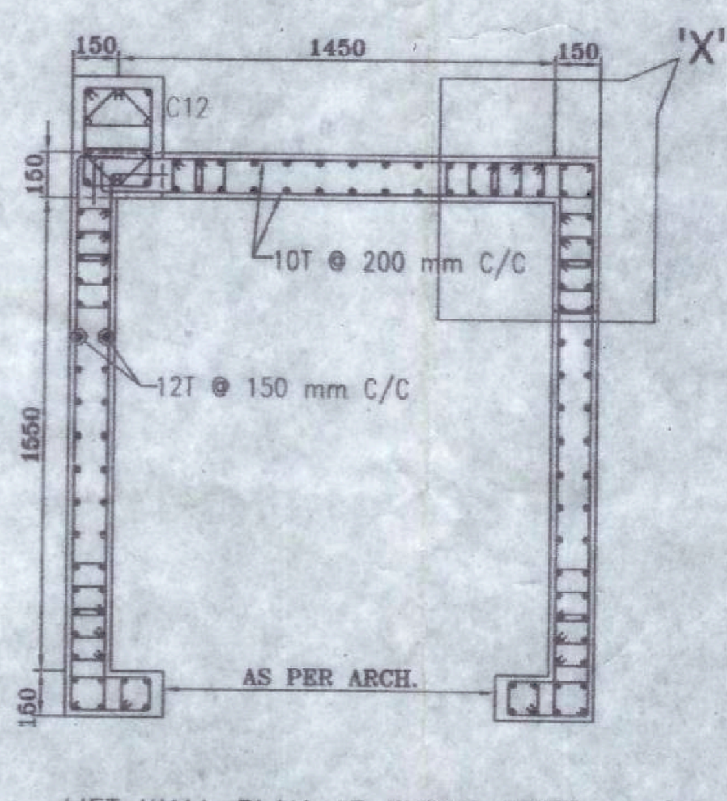
TYPICAL DETAIL OF ISOLATED FOUNDATION

SCALE N.T.S.



SECTION E-E

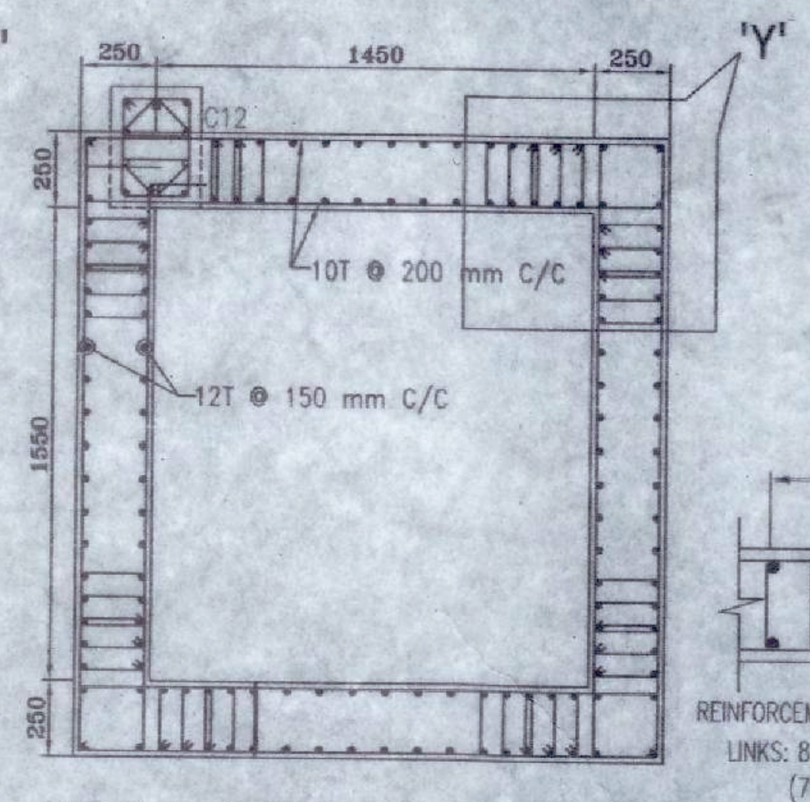
SCALE 1:25



LIFT WALL PLAN AT FLOOR LEVEL

SECTION (S-S)

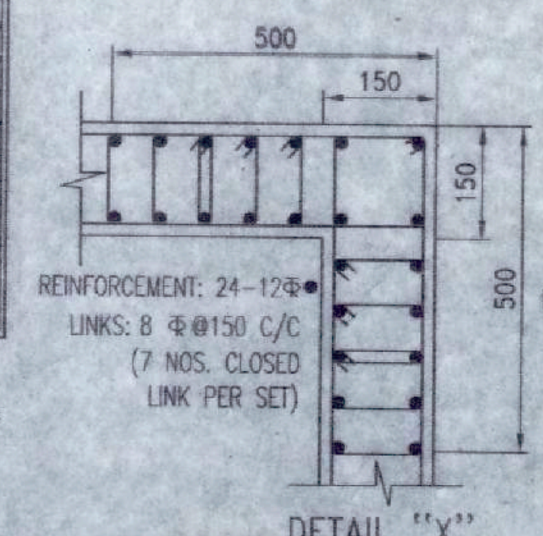
SCALE 1:25



LIFT WALL PLAN AT FOUNDATION LEVEL

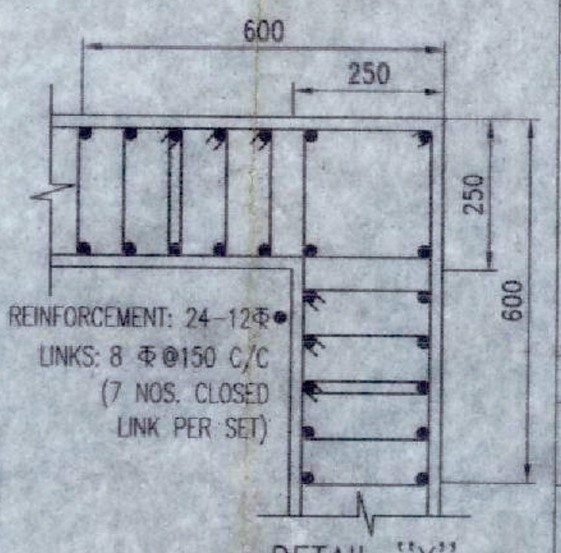
SECTION (R-R)

SCALE 1:25



DETAIL "X"

N.T.S.



DETAIL "Y"

N.T.S.

NOTES :

1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
2. 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 (WITHOUTFINISH).
3. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
4. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
5. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
6. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
7. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
8. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C.
9. CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
   i) ISOLATED FOUNDATION : 50 mm
   ii) RAFT BEAM & SLAB : 50 mm
   iii) SHEAR WALL : 20 mm
   iV) COMBINED FOUNDATION : 50 mm
10. GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
11. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987
12. THE NET SAFE BEARING CAPACITIES OF ISOLATED, COMBINE & RAFT FOOTINGS AT DEPTH (-)2.0m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. MANOJ MAITY.
13. THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
14. THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE-1 OF IS-1893(PART-1)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE

STRUCTURAL DRAWING OF PROPOSED G+4+1 STORIED RESIDENTIAL APARTMENT BUILDING OF MRS. NAMITA MUKHERJEE, SRI. KRISHNA DAS MUKERJEE OVER L.R. PLOT NO. - 99,105, R.S. PLOT NO. - 14,27, KHATIAN NO.- 918.1597, MOUZA - TETIKHOLA, J.L. NO- 111, P.S. - NEWTOWNSHIP, DIST- PASCHIM BURDWAN.

SIGNATURE OF ARCHITECT/ENGINEEER

10/8/22

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

SIGNATURE OF OWNER

SIGNATURE OF GEOTECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SUSMITA CHOUDHURY
B.TECH (CIVIL) - WBUT
ME (CONSTRUCTION) - JU
ESE-I/RJPSON/180
ESE-II/KMC/664
STER/NKDA/21/00010
CVER/NKDA/10/00175
(M)- 8697517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED

Approved Plan No. 75 on Meeting
No. 06/2022-23 Date 29/08/2023
Valid upto 15/03/2025
Mollika Lohar
Prodhan
Jemua Gram Panchayat

STRUCTURAL CONSULTANT:

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR
968, KALIKAPUR ROAD,
KOLKATA- 700 099
Email-structconenterprise@gmail.com
Ph.-8697517321, 7003201735

DRAWING TITLE

1. FOUNDATION LAYOUT PLAN WITH REINF. DETAILS.

SCALE.-1:100 OR AS SHOWN

DATE.-12.07.2022

SHEET NO. - 1 OF 3 | SHEET SIZE - A1