

FOUNDATION LAYOUT PLAN  
RS MARKED SLAB 400mm THICK.  
RS REFERS TO RAFT SLABS.  
SCALE 1:100

**SCHEDULE FOR COMBINED FOUNDATION**

FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS				FOUNDATION BEAM SIZE			FOUNDATION BEAM REINFORCEMENT DETAIL				
		TOTAL LENGTH L (mm)	WIDTH C (mm)	THICKNESS T1 (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		LENGTH L (mm)	WIDTH W (mm)	DEPTH D (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		STIRRUPS SPACING (mm)
						ALONG SHORT DIRECTION (a)	ALONG LONG DIRECTION (b)	ALONG SHORT DIRECTION (c)	ALONG LONG DIRECTION (d)				ALTHROUGH	EXTRA	ALTHROUGH	EXTRA	
CF1	02	4261	3000	400	1500	16 $\Phi$ 175 C/C	12 $\Phi$ 200 C/C	8 $\Phi$ 200 C/C	8 $\Phi$ 200 C/C	4261	550	500	5-20 $\Phi$	-	5-16 $\Phi$	-	4L-8 $\Phi$ 150 C/C
CF2	01	5179	3000	400	1500	16 $\Phi$ 175 C/C	12 $\Phi$ 200 C/C	8 $\Phi$ 200 C/C	8 $\Phi$ 200 C/C	5179	550	500	5-20 $\Phi$	3-16 $\Phi$	5-16 $\Phi$	-	4L-8 $\Phi$ 100 C/C

**SCHEDULE FOR STRIP FOUNDATION**

FOUNDATION MARKED	NUMBER	FOUNDATION SIZE			FOUNDATION REINFORCEMENT DETAILS				FOUNDATION BEAM SIZE			FOUNDATION BEAM REINFORCEMENT DETAIL				
		WIDTH C (mm)	THICKNESS T1 (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		LENGTH L (mm)	WIDTH W (mm)	DEPTH D (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		STIRRUPS SPACING (mm)
					ALONG SHORT DIRECTION (a)	ALONG LONG DIRECTION (b)	ALONG SHORT DIRECTION (c)	ALONG LONG DIRECTION (d)				ALTHROUGH	EXTRA	ALTHROUGH	EXTRA	
SF	02	3000	400	1500	16 $\Phi$ 175 C/C	12 $\Phi$ 200 C/C	8 $\Phi$ 200 C/C	8 $\Phi$ 200 C/C	7061	500	550	5-20 $\Phi$	-	5-16 $\Phi$	-	4L-8 $\Phi$ 150 C/C

**NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION**

TYPE OF FOUNDATION	FOUNDATION MARK	SIZE	NET SAFE BEARING CAPACITY (T/M <sup>2</sup> )
ISOLATED	F1	1.80m x 1.80m	10.6
	F2	2.00m x 2.00m	10.6
	F3	2.20m x 2.20m	10.46
	F4	2.40m x 2.40m	10.3
	F5	2.60m x 2.60m	10.2
	F6	2.80m x 2.80m	10.1
	F7	3.00m x 3.00m	10.0
	F8	3.20m x 3.20m	9.8
	F9	1.90m x 2.40m	9.2
	F10	2.00m x 2.50m	9.1
RAFT	RF1	7.825m x 8.975m	8.0
	RF2	7.075m x 6.250m	8.0
COMBINED	CF1	3.000m x 4.251m	8.5
	CF2	3.000m x 5.179m	8.5
STRIP	SF	3.000m x 7.061m	8.5

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.

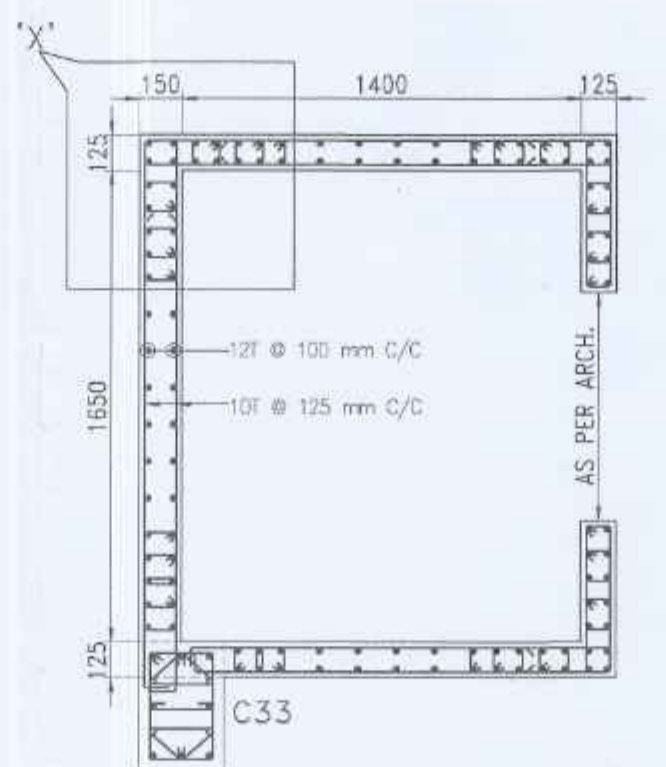
**SCHEDULE OF RAFT BEAMS**

BEAM MARKED	BEAM SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		STIRRUPS
	WIDTH (mm)	DEPTH (mm)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	
RFB1	725	450	7-20 $\Phi$	-	7-20 $\Phi$	+3-16 $\Phi$	6L-8 $\Phi$ 100 C/C
RFB2	550	450	5-16 $\Phi$	-	5-16 $\Phi$	-	4L-8 $\Phi$ 200 C/C
RFB3	550	450	5-16 $\Phi$	3-16 $\Phi$	5-16 $\Phi$	-	4L-8 $\Phi$ 200 C/C
RFB4	550	450	5-16 $\Phi$	3-16 $\Phi$	5-16 $\Phi$	2-16 $\Phi$	4L-8 $\Phi$ 100 C/C
RFB5	400	450	4-16 $\Phi$	-	4-16 $\Phi$	-	4L-8 $\Phi$ 200 C/C
RFB6	400	450	4-16 $\Phi$	-	4-12 $\Phi$	-	4L-8 $\Phi$ 200 C/C
RFB7	400	450	4-16 $\Phi$	2-16 $\Phi$	4-16 $\Phi$	-	4L-8 $\Phi$ 200 C/C
RFB8	500	450	5-20 $\Phi$	5-16 $\Phi$	5-16 $\Phi$	-	4L-8 $\Phi$ 100 C/C
RFB9	550	450	5-16 $\Phi$	3-16 $\Phi$	5-12 $\Phi$	-	4L-8 $\Phi$ 200 C/C

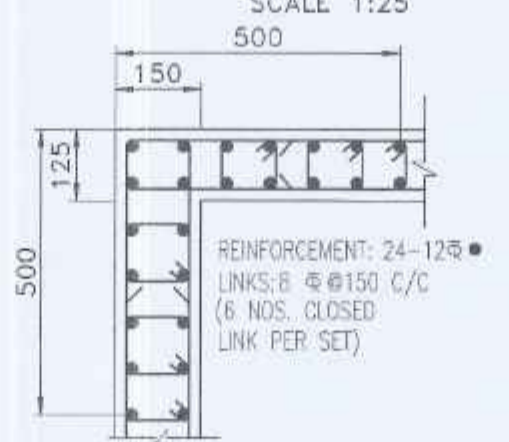
**SCHEDULE OF RAFT SLAB**

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	400	16 $\Phi$ 175 C/C	16 $\Phi$ 175 C/C	16 $\Phi$ 175 C/C	16 $\Phi$ 175 C/C

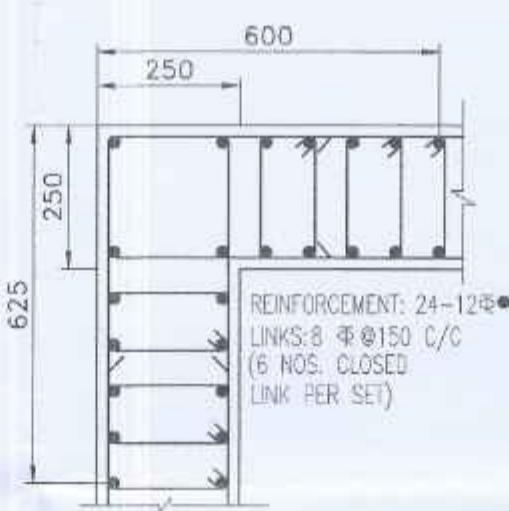
**SPECIAL NOTES:-**  
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.  
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



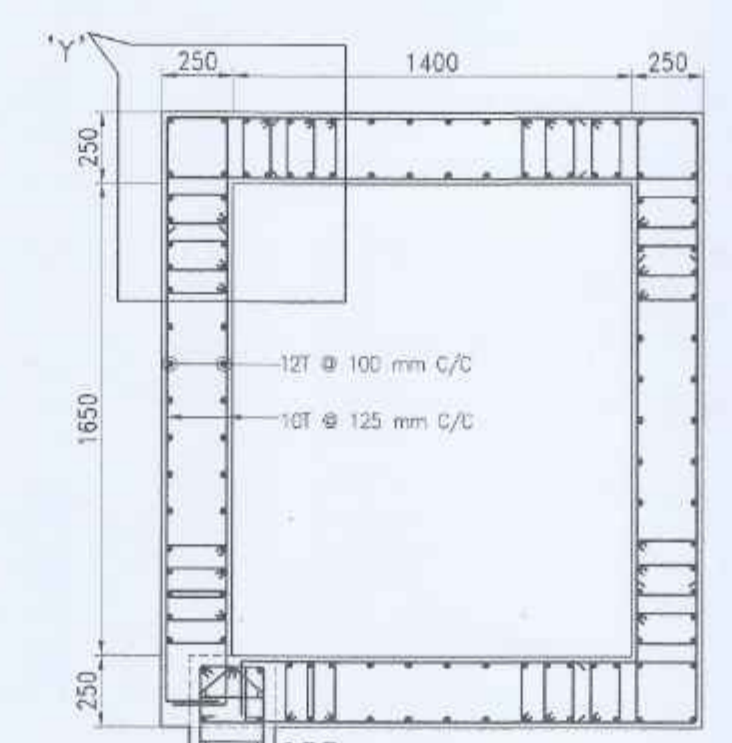
LIFT WALL PLAN AT FLOOR LEVEL SECTION (S-S)  
SCALE 1:25



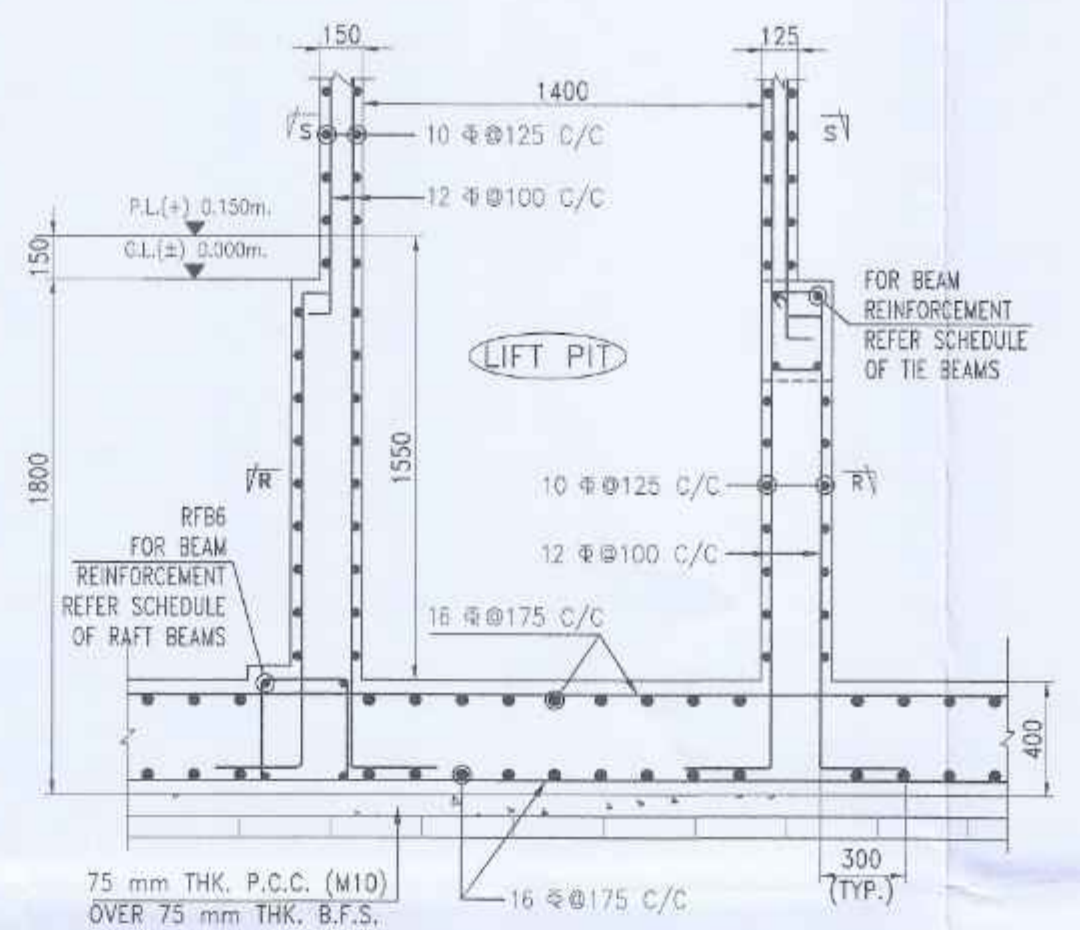
DETAIL 'X' SCALE-N.T.S



DETAIL 'Y' SCALE-N.T.S



LIFT WALL PLAN AT BASE LEVEL SECTION (R-R)  
SCALE 1:25



SECTION -C-C SCALE-1:25

**SCHEDULE FOR ISOLATED FOUNDATION**

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS				
			WIDTH (m)	LENGTH (m)	THICKNESS D1 (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		
							ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	
C58	F1	01	1.8	1.8	400	250	1500	12 $\Phi$ 175 C/C	12 $\Phi$ 175 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C20,C21,C36,C38	F2	04	2.0	2.0	400	250	1500	12 $\Phi$ 175 C/C	12 $\Phi$ 175 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C12,C16,C39	F3	03	2.2	2.2	400	250	1500	12 $\Phi$ 150 C/C	12 $\Phi$ 150 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C1,C3,C4,C5,C23,C29,C37,C52,C56	F4	08	2.4	2.4	450	300	1500	12 $\Phi$ 150 C/C	12 $\Phi$ 150 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C2,C17,C25,C28,C35,C45,C53	F5	07	2.6	2.6	450	350	1500	12 $\Phi$ 125 C/C	12 $\Phi$ 125 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C40,C42,C55	F6	03	2.8	2.8	450	350	1500	12 $\Phi$ 125 C/C	12 $\Phi$ 125 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C43,C54	F7	02	3.0	3.0	450	350	1500	12 $\Phi$ 125 C/C	12 $\Phi$ 125 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C14,C41	F8	02	3.2	3.2	500	350	1500	16 $\Phi$ 150 C/C	16 $\Phi$ 150 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C8,C50	F9	02	1.9	2.4	450	300	1500	12 $\Phi$ 175 C/C	12 $\Phi$ 150 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C
C46,C49	F10	02	2.0	2.5	450	300	1500	12 $\Phi$ 175 C/C	12 $\Phi$ 150 C/C	8 $\Phi$ 300 C/C	8 $\Phi$ 300 C/C

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED  
DR. DIPANJAN SINGH  
STRUCTURAL ENGINEER  
PROFESSOR & FORMER HEAD  
CIVIL ENGINEERING DEPARTMENT  
JADAVPUR UNIVERSITY  
KOLKATA-700032  
E-MAIL: drdipanjansingh@rediffmail.com

- 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).
  - ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
  - 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 TMT BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
  - ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
  - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
  - UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C.
  - CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:  
i) ISOLATED FOUNDATION : 50 mm  
ii) RAFT BEAM & SLAB : 50 mm  
iii) SHEAR WALL : 20 mm  
iv) COMBINE & STRIP FOUNDATION : 50 mm
  - GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
  - DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987
  - THE NET SAFE BEARING CAPACITIES FOR ISOLATED, COMBINED, STRIP AND RAFT FOUNDATION AT DEPTH (-)1.5m. (UNLESS OTHERWISE MENTIONED) FROM G.L. HAVE BEEN CONSIDERED IN TUNE WITH THE SOIL REPORT PREPARED BY BHASKAR JYOTI ROY (TECHNO SOIL).
  - THE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
  - 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 - (BLOCK-D&E)**  
STRUCTURAL DRAWING OF PROPOSED G+4Y STORED RESIDENTIAL CUM COMMERCIAL BUILDING AT MOUZA :- KALIKAPUR, JL NO :- 40  
.R.S./L.R. DAG NOS:- 437; L.R. KHATIAN NOS:-3782,3995, R.S. NO:-141;TOUZI NO:-10;P.S:-RAJARHAT UNDER PATHARGHATA GRAM PANCHAYET DISTRICT: NORTH 24 PARGANAS.

**SIGNATURE OF OWNER**  
GITANJALI ENTERPRISE  
Riku Chakrabarty (Rm) Partner  
GITANJALI ENTERPRISE  
Arbo Das Partner  
GITANJALI ENTERPRISE  
Bansu K. Shaha (Rm) Partner

**SIGNATURE OF ARCHITECT**

**SIGNATURE OF GEO-TECHNICAL ENGINEER**

**SIGNATURE OF STRUCTURAL ENGINEER**

SUSMITA CHOUDHURY  
B.TECH CIVIL - WBUTU  
M.E. (CONSTRUCTION) - JU  
ESE-1/B/IMPSON/130  
ESE-11/RMC/664  
STRIP/HRDA/23/00010  
CVER/HRDA/10/00175  
(M)-6897517321/7003201735

**STRUCTURAL CONSULTANT:**

STRUCTCON ENTERPRISE  
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR, 968, KALIKAPUR ROAD, KOLKATA-700 095  
Email-structconenterprise@gmail.com  
Ph.-9007714478, 7003201735

**DRAWING TITLE**

FOUNDATION LAYOUT PLAN WITH REINF. DETAILS.

SCALE:-1:100 OR AS SHOWN  
DATE:-07.06.2024

SHEET NO.-1 OF 5 SHEET SIZE-A1