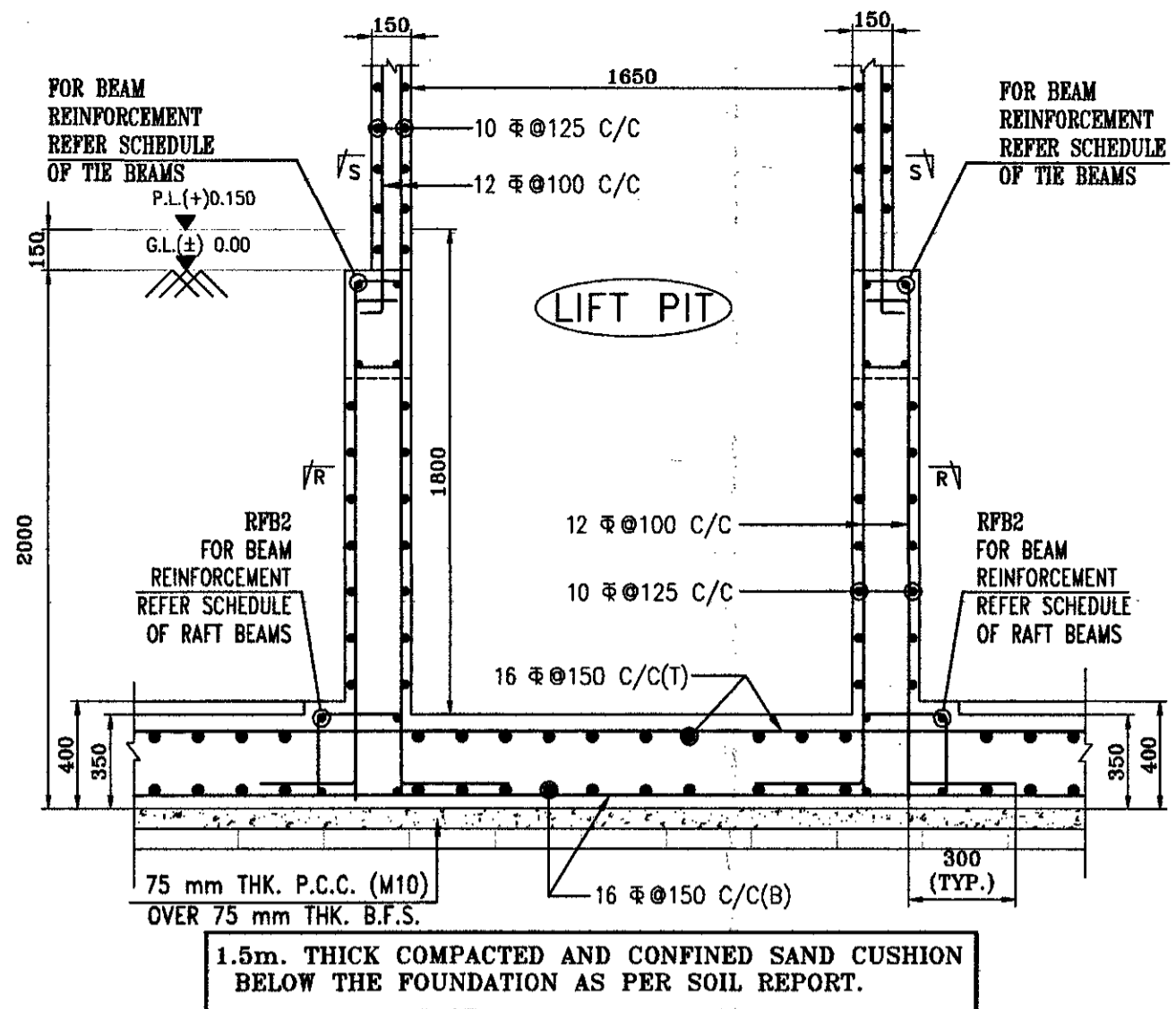
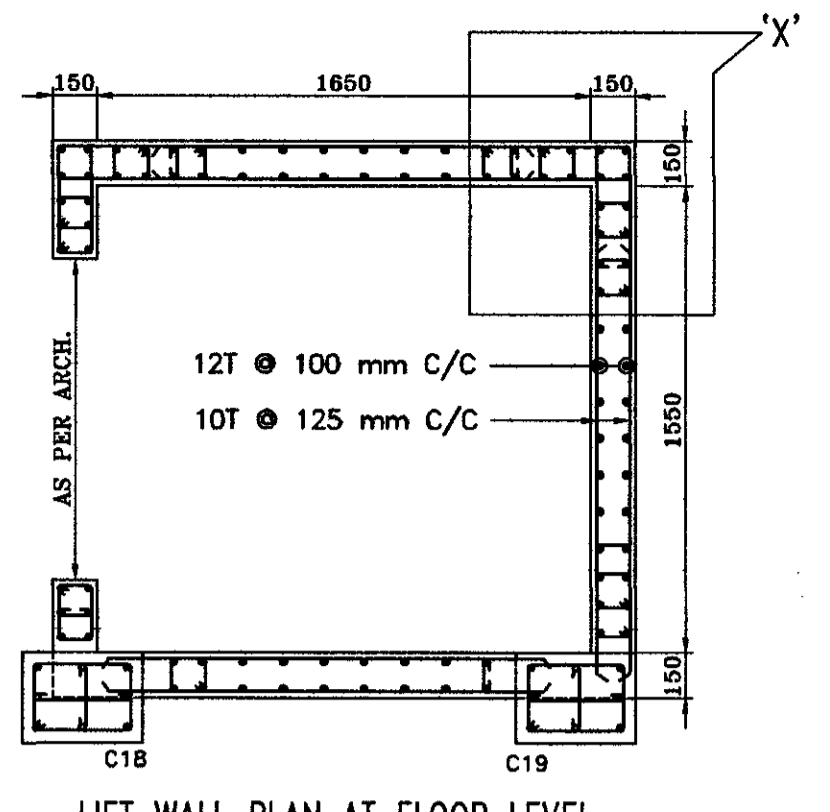


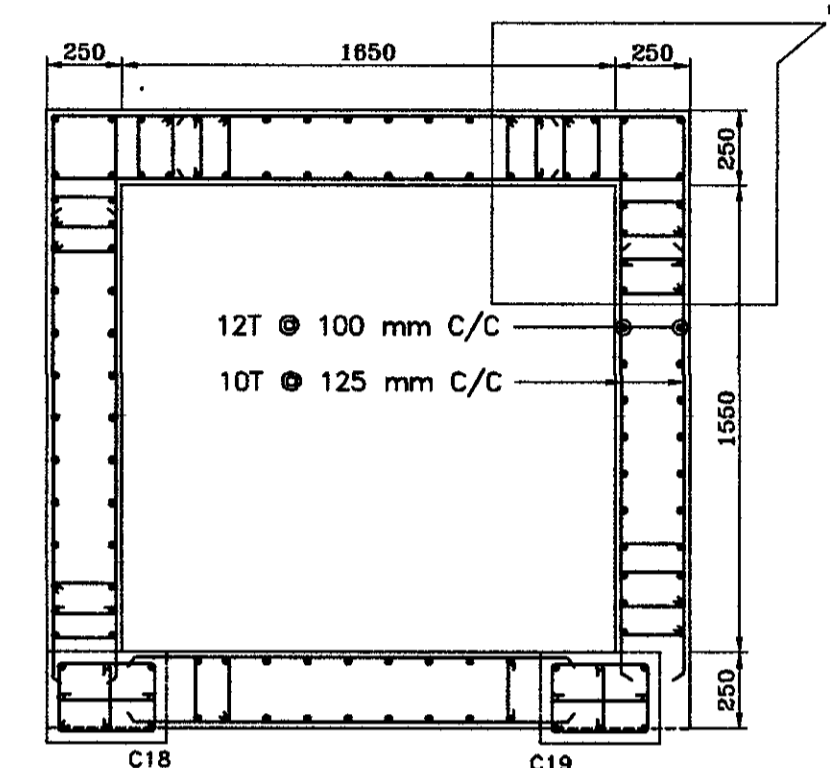
FOUNDATION LAYOUT PLAN  
RS MARKED SLAB THICKNESS 350 mm  
SCALE - 1:100



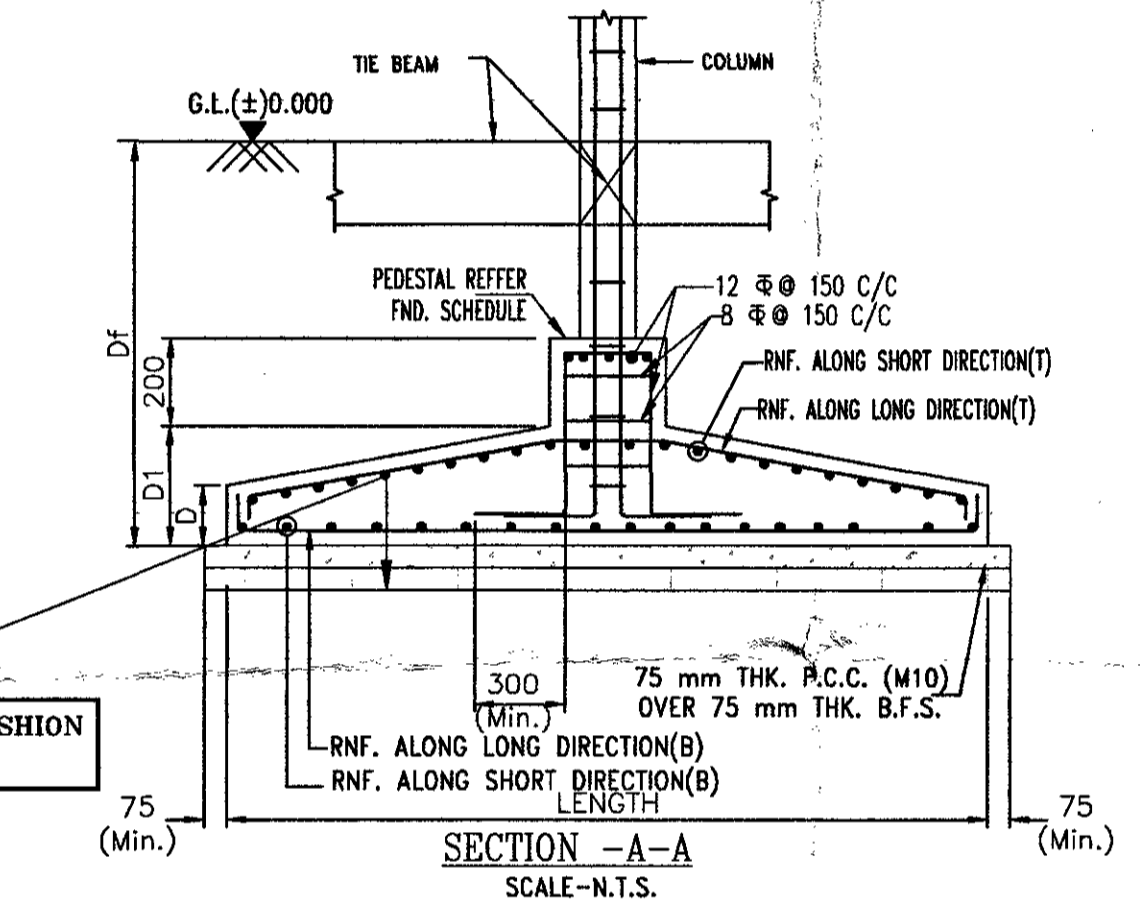
SECTION -E-E  
SCALE- 1:25



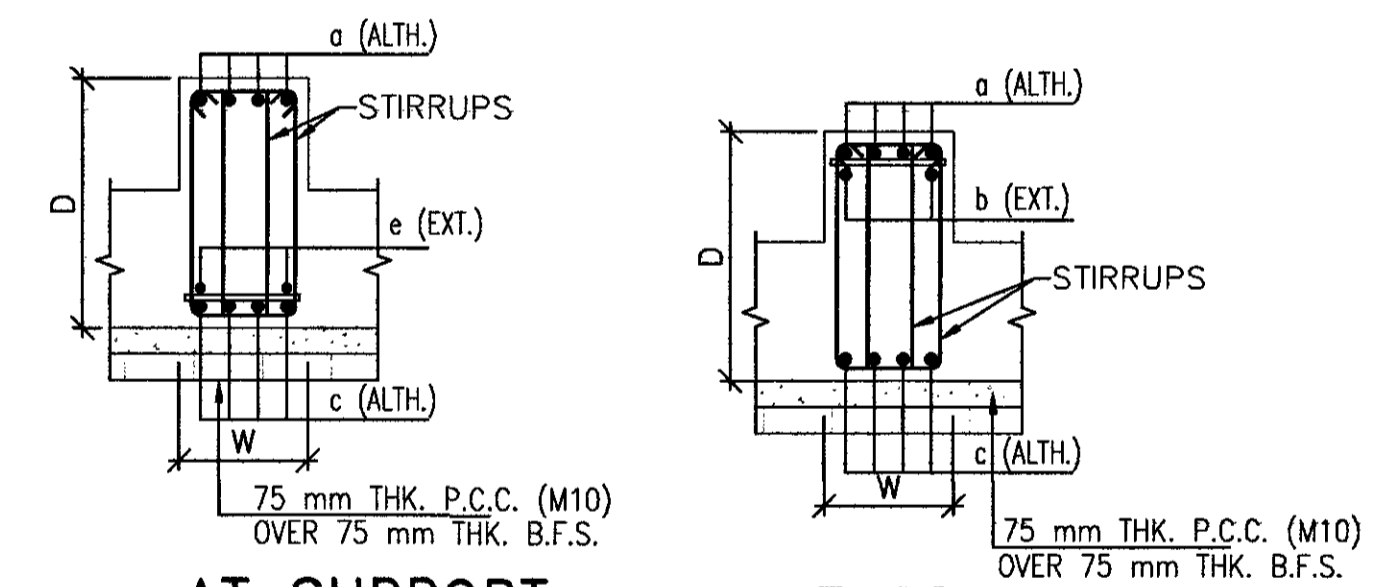
LIFT WALL PLAN AT FLOOR LEVEL  
SECTION (S-S)  
SCALE 1:25



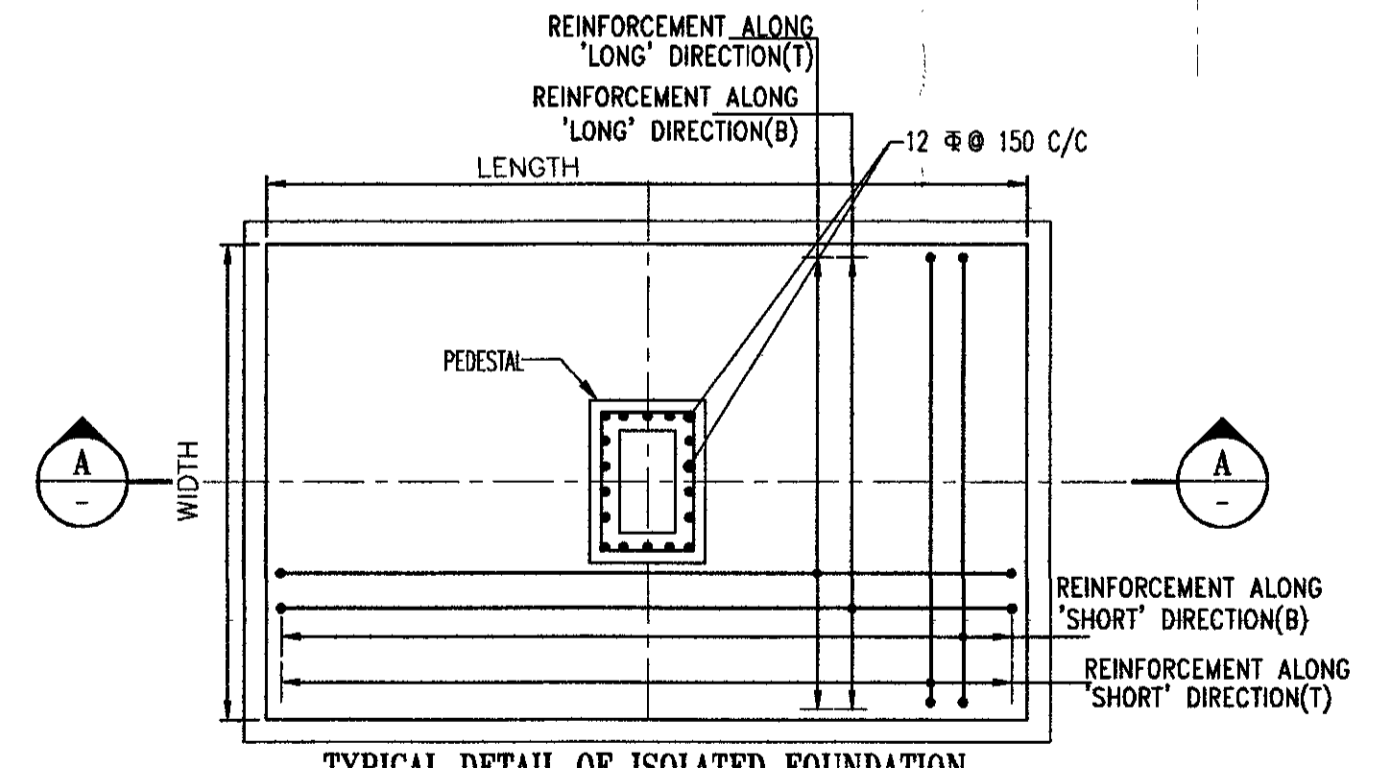
LIFT WALL PLAN AT FOUNDATION LEVEL  
SECTION (R-R)  
SCALE 1:25



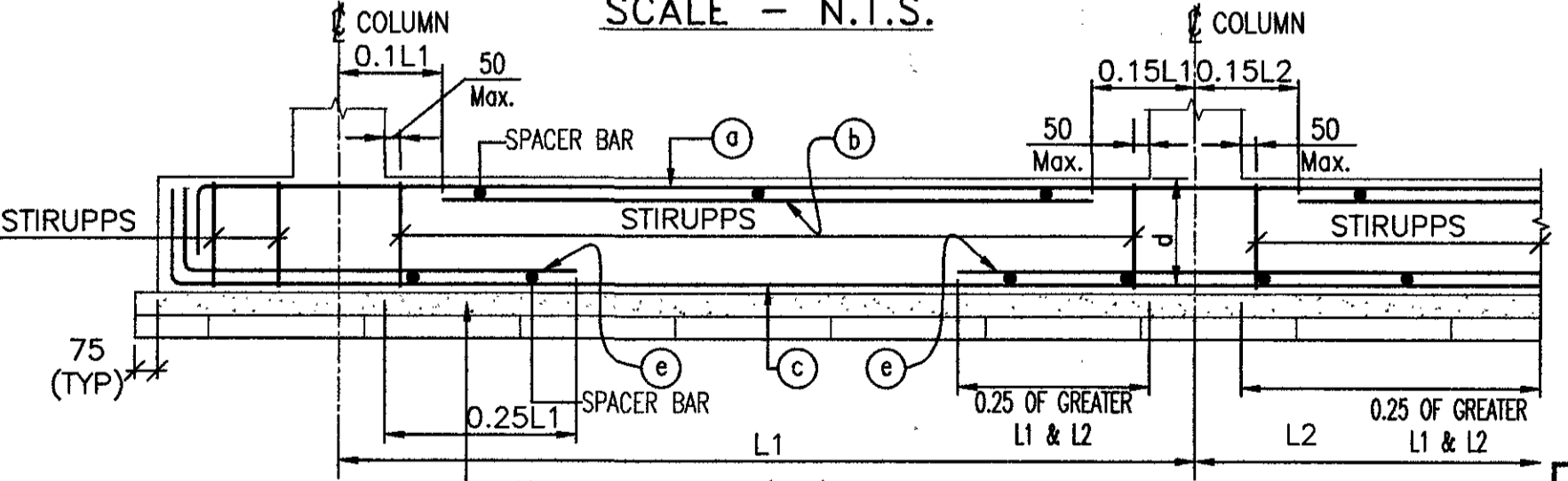
SECTION -A-A  
SCALE-N.T.S.



AT SUPPORT AT SPAN  
TYPICAL CROSS SECTION OF FOUNDATION BEAM  
SCALE - N.T.S.



TYPICAL DETAIL OF ISOLATED FOUNDATION  
SCALE-N.T.S.



TYPICAL ARRANGEMENT OF REINFORCEMENT IN  
FOUNDATION BEAM  
(AS PER SP 34-1987)  
SCALE - N.T.S.

SCHEDULE OF RAFT BEAMS						
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT	
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTHOUGH (a)	EXTRA AT SPAN (b)	ALTHOUGH (c)	EXTRA AT SUPPORT (e)
RFB1	450	400	4-16 #	-	4-16 #	-
RFB2	450	400	4-12 #	-	4-16 #	2-16 #
RFB3	500	400	4-12 #	-	4-16 #	-
RFB4	450	400	2-20 # +2-16 #	-	4-20 #	-
RFB5	500	400	5-12 #	-	5-16 #	2-16 #
RFB6	500	400	5-20 #	-	5-20 #	-

SCHEDULE OF RAFT SLAB					
SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	350	16 # 150 C/C	16 # 150 C/C	16 # 150 C/C	16 # 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	1.8m. x 1.8m.	10
	F2	1.9m. x 1.9m.	10
	F3	2.3m. x 2.3m.	10
	F4	2.1m. x 2.1m.	10
	F5	2.6m. x 2.6m.	10
	F6	2.6m. x 2.0m.	10
RAFT	RAFT	AS SHOWN IN DRAWING	7.5

SCHEDULE FOR ISOLATED FOUNDATION												
UNDER COLUMNS MARKED	FOUNDATION MARKED	FOUNDATION NUMBER	FOUNDATION SIZE			FOUNDATION REINFORCEMENT DETAILS						
			WIDTH (m)	LENGTH (m)	THICKNESS	DEPTH	BOTTOM REINFORCEMENT		TOP REINFORCEMENT			
			D1 (mm)	D (mm)	Df (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION			
	C25	F1	01	1.80	1.80	350	250	2000	10 # 150 C/C	10 # 150 C/C	8 # 300 C/C	8 # 300 C/C
	C1,C3,C27,C28	F2	04	1.90	1.90	350	250	2000	10 # 125 C/C	10 # 125 C/C	8 # 300 C/C	8 # 300 C/C
	C2,C6,C11,C18,C20,C22,C24	F3	07	2.30	2.30	400	250	2000	12 # 150 C/C	12 # 150 C/C	8 # 300 C/C	8 # 300 C/C
	C4,C5,C9,C15,C21,C23,C26	F4	07	2.10	2.10	350	250	2000	12 # 150 C/C	12 # 150 C/C	8 # 300 C/C	8 # 300 C/C
	C10,C12	F5	02	2.60	2.60	450	300	2000	12 # 150 C/C	12 # 150 C/C	8 # 300 C/C	8 # 300 C/C
	C7,C8	F6	02	2.60	2.00	400	250	2000	12 # 200 C/C	12 # 100 C/C	8 # 300 C/C	8 # 300 C/C

SPECIAL NOTE:-  
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.

- NOTES :
- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
  - ALL DIMENSIONS ARE IN MILLIMETERS & LEVEL AS MENTIONED IN THE DRAWING.
  - ALL STRUCTURAL DRAWINGS SHALL BE READ AS RELEVANT ARCHITECTURAL DRAWINGS.
  - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT.
  - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH IS: 1786-1986.
  - 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
  - GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
  - DEVELOPMENT LENGTH SOUD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987
  - THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATED, AT DEPTH (-)2m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING AS PER THE SOIL REPORT PREPARED BY MR. ASIM SARKAR.
  - THE NET SAFE BEARING CAPACITIES FOR RAFT FOUNDATION AT DEPTH (-)2.0 m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING AS PER SOIL REPORT PREPARED BY MR. ASIM SARKAR.
  - THE ABOVE 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:-  
STRUCTURAL DRAWING OF PROPOSED G+3 STORIED RESIDENTIAL BUILDING OF SRI. AMIT AGARWAL OVER L.R. PLOT NO. - 2230, 2232 & 2513, KHATIAN NO.-10702 - MOUZA - BHIRINGI, J.L. NO- 119, P.S.-DURGAPUR, DIST- PASCHIM BARDHAMAN.  
\* ID NO. -11834  
\* HOLDING NO. - 68  
\* CIRCLE/WARD - C/19  
\* ADDRESS -ROAD-28 SUBHASHPALLY,BTY DGP-13  
SIGNATURE OF OWNER

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT

Ar. VIJAYA SINGH MAZUMDER  
COA REGISTERED  
CA/2021/134276  
SIGNATURE OF GEOTECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT:  
STRUCTCON ENTERPRISE  
REGD. ADDRESS: ASHRAY APARTMENT,  
GROUND FLOOR  
98B, KALKAPUR ROAD,  
KOLKATA - 700 099  
Email-structconenterprise@gmail.com  
Ph.-9007714478, 7003201735

DRAWING TITLE  
FOUNDATION LAYOUT PLAN & REINFORCEMENT DETAILS.  
SCALE - 1:100 OR AS SHOWN  
DATE - 07.09.2023  
SHEET NO. - 1 OF 2 SHEET SIZE - A1