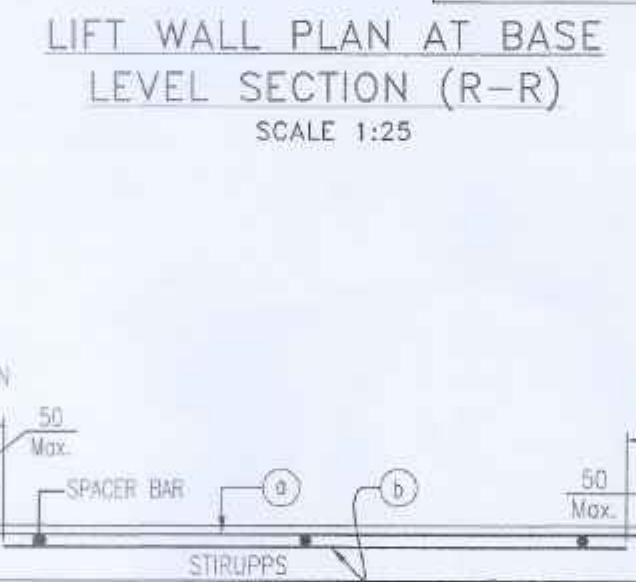
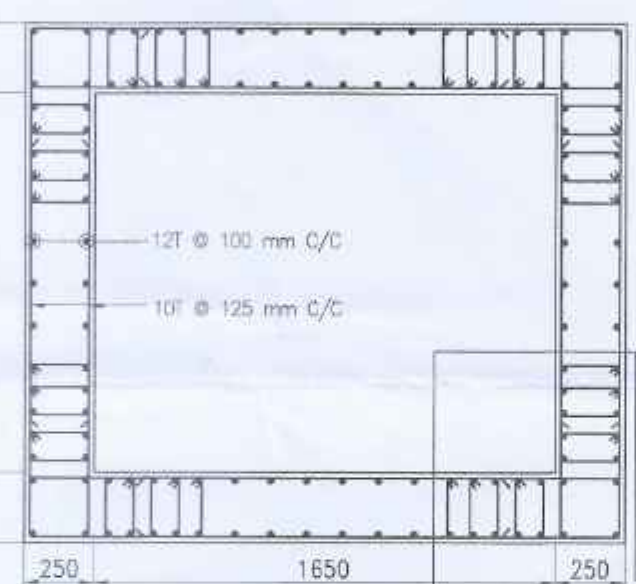
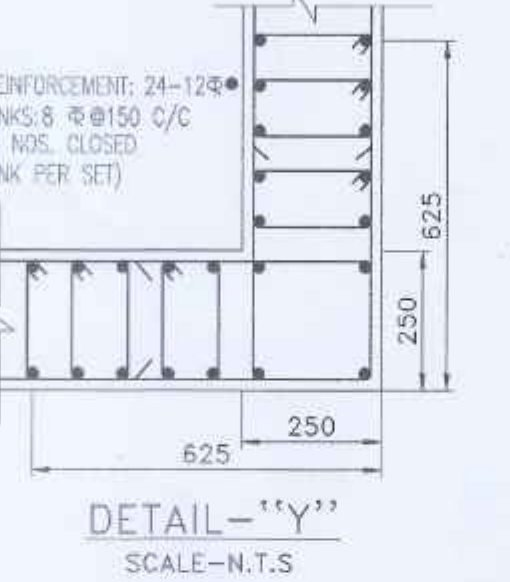
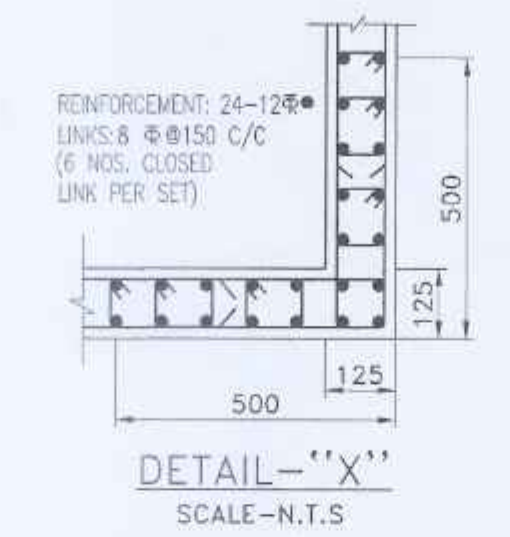


FOUNDATION LAYOUT PLAN
RS MARKED SLAB 400mm THICK.
RS REFERS TO RAFT SLABS.
SCALE 1:100

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	
CF	02	4700	3000	400	1500	16 Φ 175 C/C	12 Φ 200 C/C	8 Φ 200 C/C	8 Φ 200 C/C	4700	550	550	5-20 Φ	3-16 Φ	5-16 Φ	-	4L-8 Φ 100 C/C



UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE			FOUNDATION REINFORCEMENT DETAILS					
			WIDTH (m)	LENGTH (m)	THICKNESS D1 (mm)	DEPTH D2 (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		
							ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	
C1,C2,C3,C7,C12,C17	F1	06	1.8	1.8	400	250	1500	12 Φ 175 C/C	12 Φ 175 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C2,C3,C5,C6,C8,C24,C25,C26,C29,C31,C33,C34,C35,C36,C41,C44,C45,C47,C48,C49,C50,C55,C72,C75,C77	F2	25	2.0	2.0	400	250	1500	12 Φ 175 C/C	12 Φ 175 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C4,C7,C16,C17,C22,C23,C28,C29,C40,C41,C46,C53,C54,C56,C57,C70,C73,C74,C76	F3	19	2.2	2.2	450	300	1500	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C14,C23,C27,C28,C51,C52,C62,C63	F4	08	2.4	2.4	450	300	1500	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C69	F5	01	2.6	2.6	450	300	1500	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C13,C18,C19,C58,C59	F6	05	2.8	2.8	450	300	1500	12 Φ 125 C/C	12 Φ 125 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C11,C67	F7	02	3.0	3.0	450	350	1500	16 Φ 150 C/C	16 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C

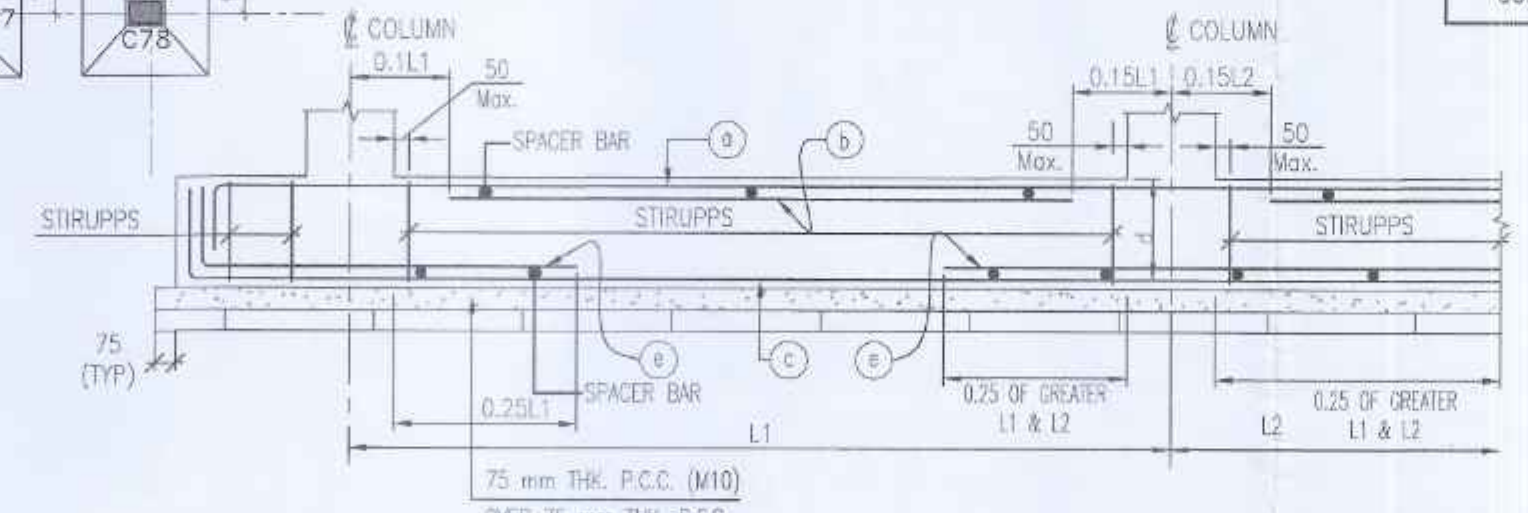
SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION				REINFORCEMENT ALONG LONGER DIRECTION			
		BOTTOM		TOP		BOTTOM		TOP	
		REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT
RS	400	16 Φ 175 C/C	16 Φ 175 C/C	16 Φ 175 C/C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

BEAM MARKED	BEAM SIZE (W x D)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS
		ALTHROUGH	EXTRA AT SPAN	ALTHROUGH	EXTRA AT SUPPORT	
		(a)	(b)	(c)	(d)	
RFB1	600 x 450	5-16 Φ	-	5-16 Φ	3-16 Φ	4L-8 Φ 200 C/C
RFB2	550 x 450	4-16 Φ	-	4-16 Φ	-	4L-8 Φ 200 C/C
RFB3	400 x 450	4-16 Φ	-	4-16 Φ	-	4L-8 Φ 200 C/C
RFB4	400 x 450	4-16 Φ	-	4-16 Φ	3-16 Φ	4L-8 Φ 200 C/C

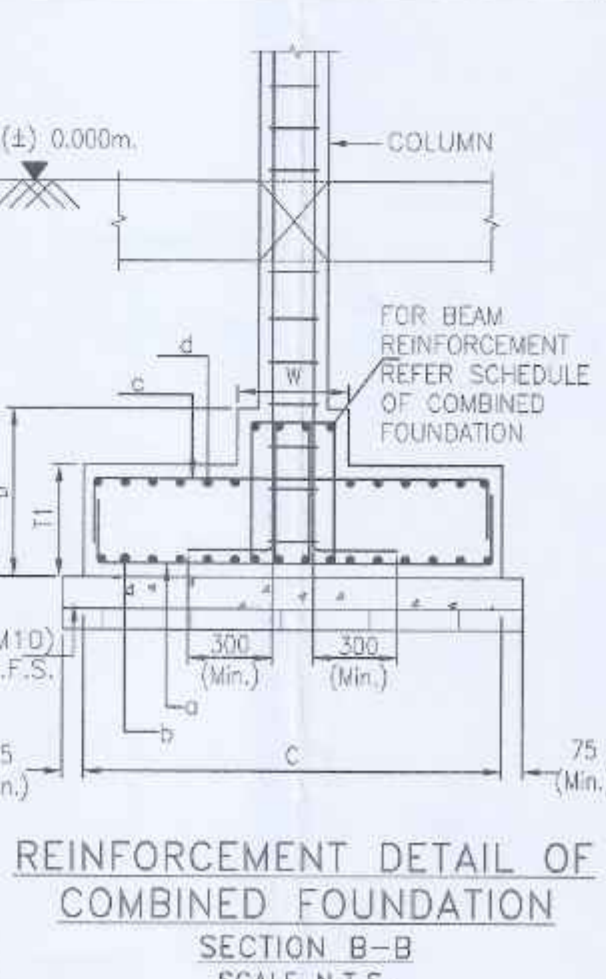
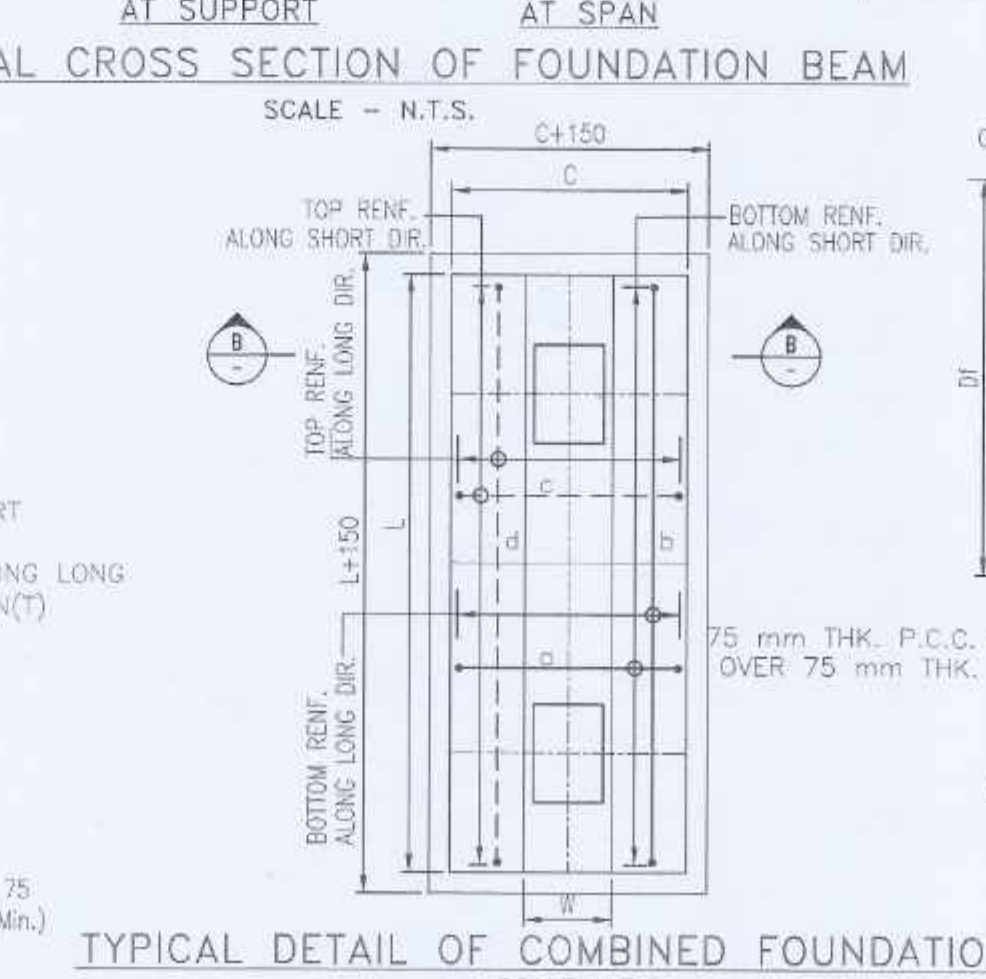
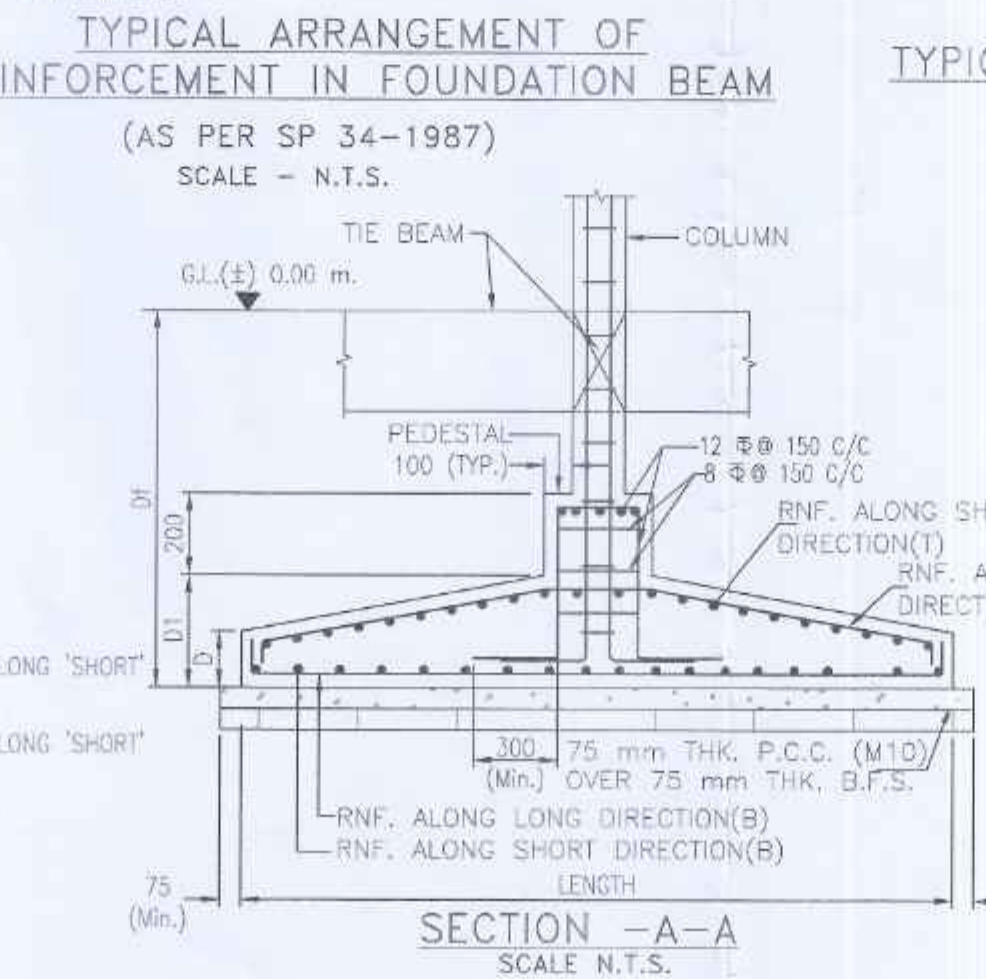
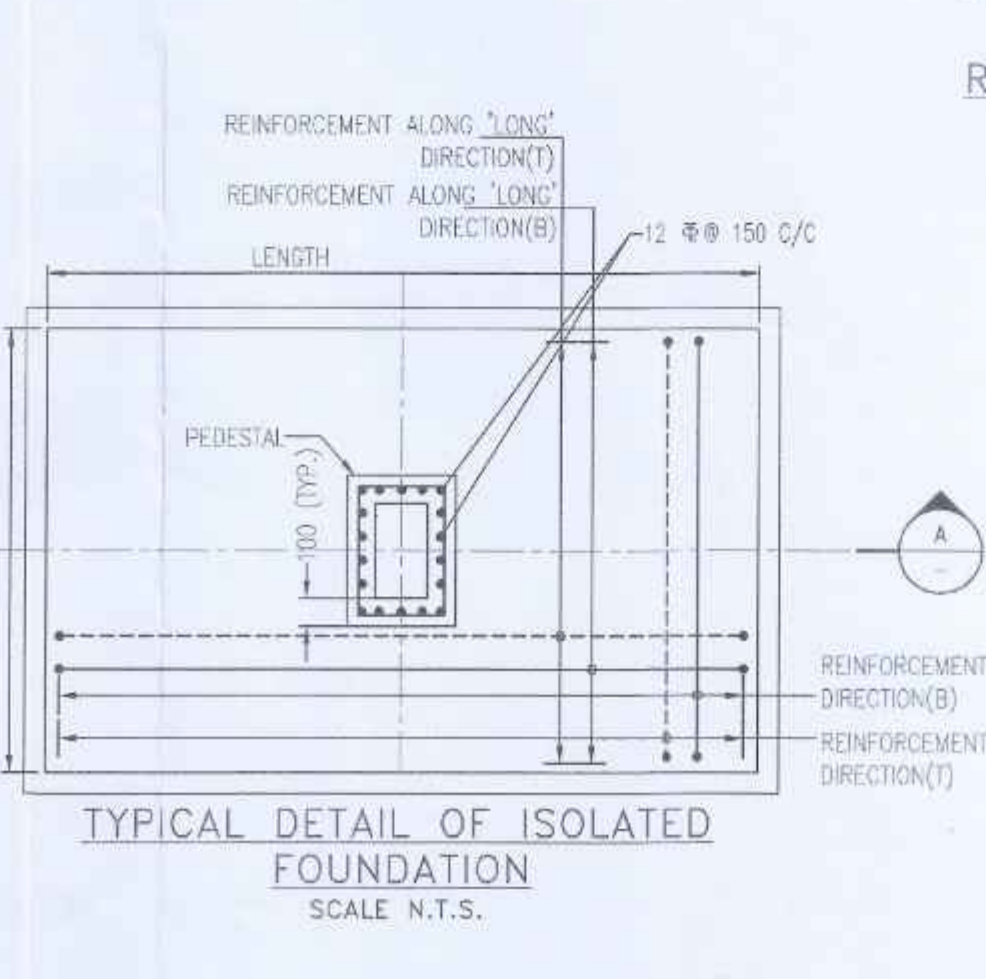
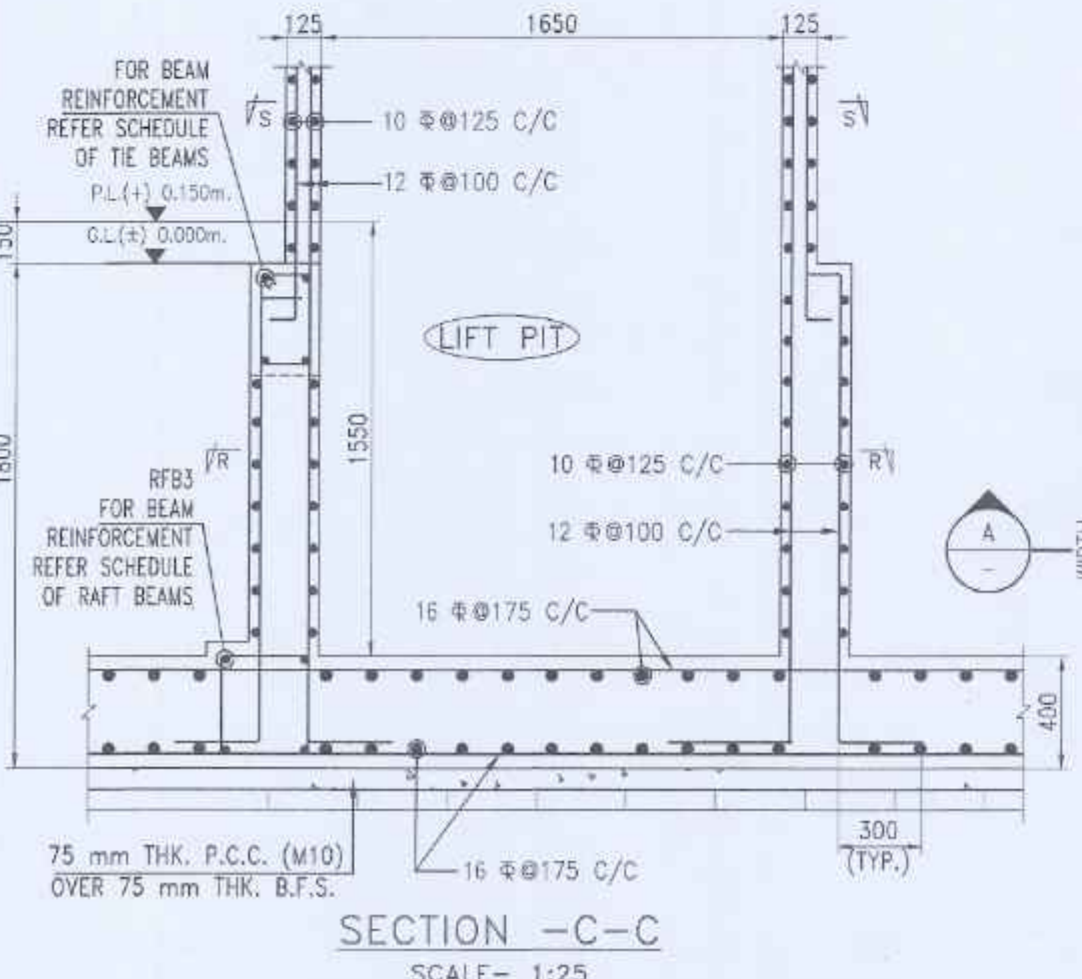
SPECIAL NOTES:-
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

TYPE OF FOUNDATION	FOUNDATION MARK	SIZE	NET SAFE BEARING CAPACITY (T/M ²)
			NET SAFE BEARING CAPACITY (T/M ²)
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
RAFT	RF	5.925m. x 7.825m.	8.0
COMBINED	CF	3.000m. x 4.700m.	8.5

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



TYPICAL CROSS SECTION OF FOUNDATION BEAM
SCALE - 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 (WITHOUT FINISH).
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) COMBINE 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 FOR ISOLATED, COMBINED 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).
13. THE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL 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 - (BLOCK-A&B)
STRUCTURAL DRAWING OF PROPOSED G+IV STORIED RESIDENTIAL CUM COMMERCIAL BUILDING AT MOUZA :- KALIKAPUR, JL NO :- 40, R.S./L.R. DAG NOS:- 437; L.R. KHATAN NOS:- 3782,3995, R.S. NO:-141 TOUZI NO:-10 P.S.-RAJARHAT UNDER PATARGHATA GRAM PANCHAYET DISTRICT: NORTH 24 PARGANAS.

SIGNATURE OF OWNER GITANJALI ENTERPRISE
GITANJALI ENTERPRISE
Rixa Chandra barty (for) Arko Das
Partner Partner
GITANJALI ENTERPRISE
Sunder Kr. Jha aliy
Partner

SIGNATURE OF ARCHITECT
SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY
CHECKER & VETTER
DR. DIPANKAR CHAKRABARTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR (FORMER) IAS
CIVIL ENGINEERING DEPARTMENT
JADAVPUR UNIVERSITY
88, 111/1, Ghat Road, 7th Floor, Salt Lake, Kolkata, Pin-700032
(033) 993-2487 2630, (M) 9830111111
Email: drdipankar@gmail.com

STRUCTURAL CONSULTANT:
STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR 96B, KALIKAPUR ROAD, KOLKATA- 700 099
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 4 SHEET SIZE-A1