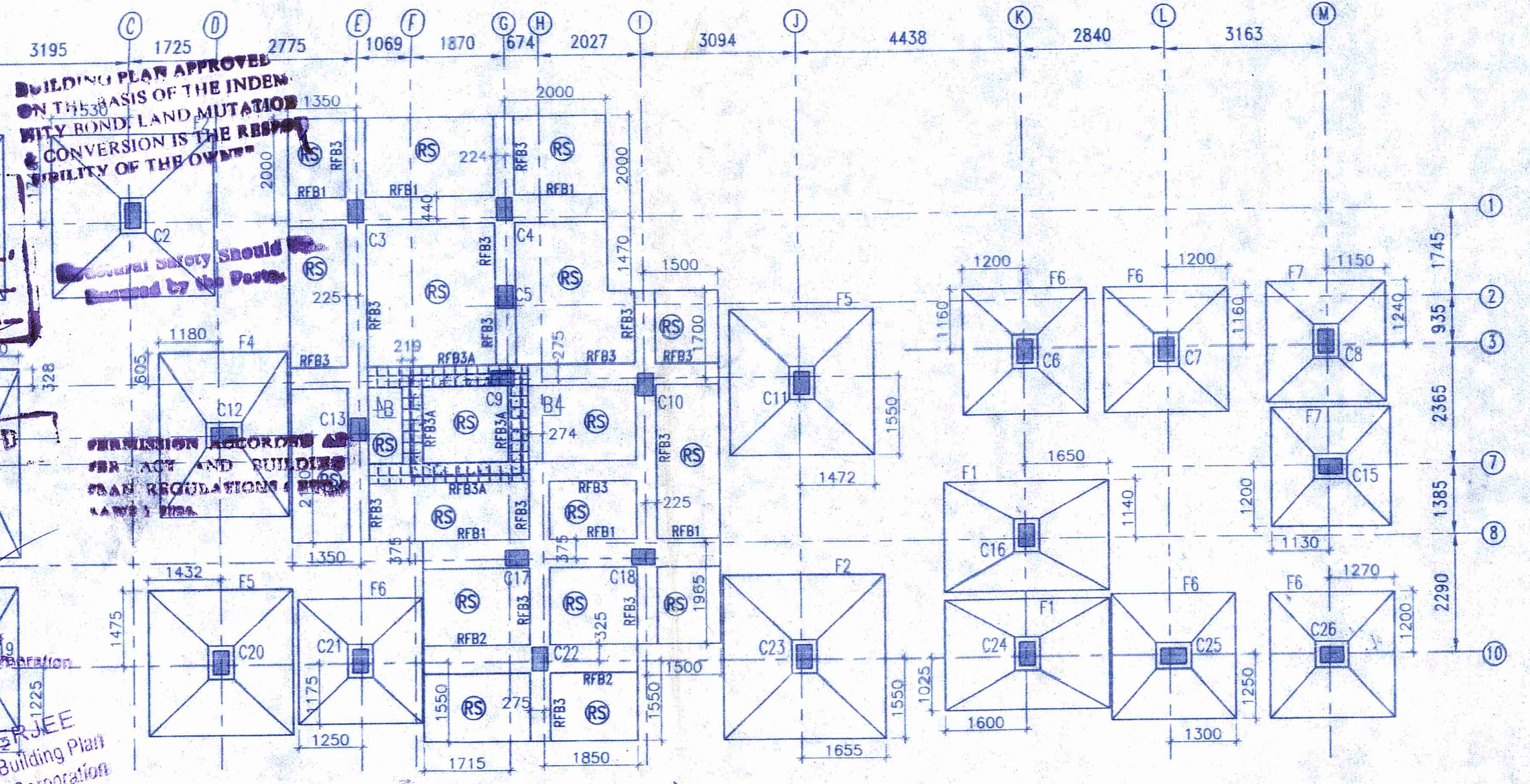
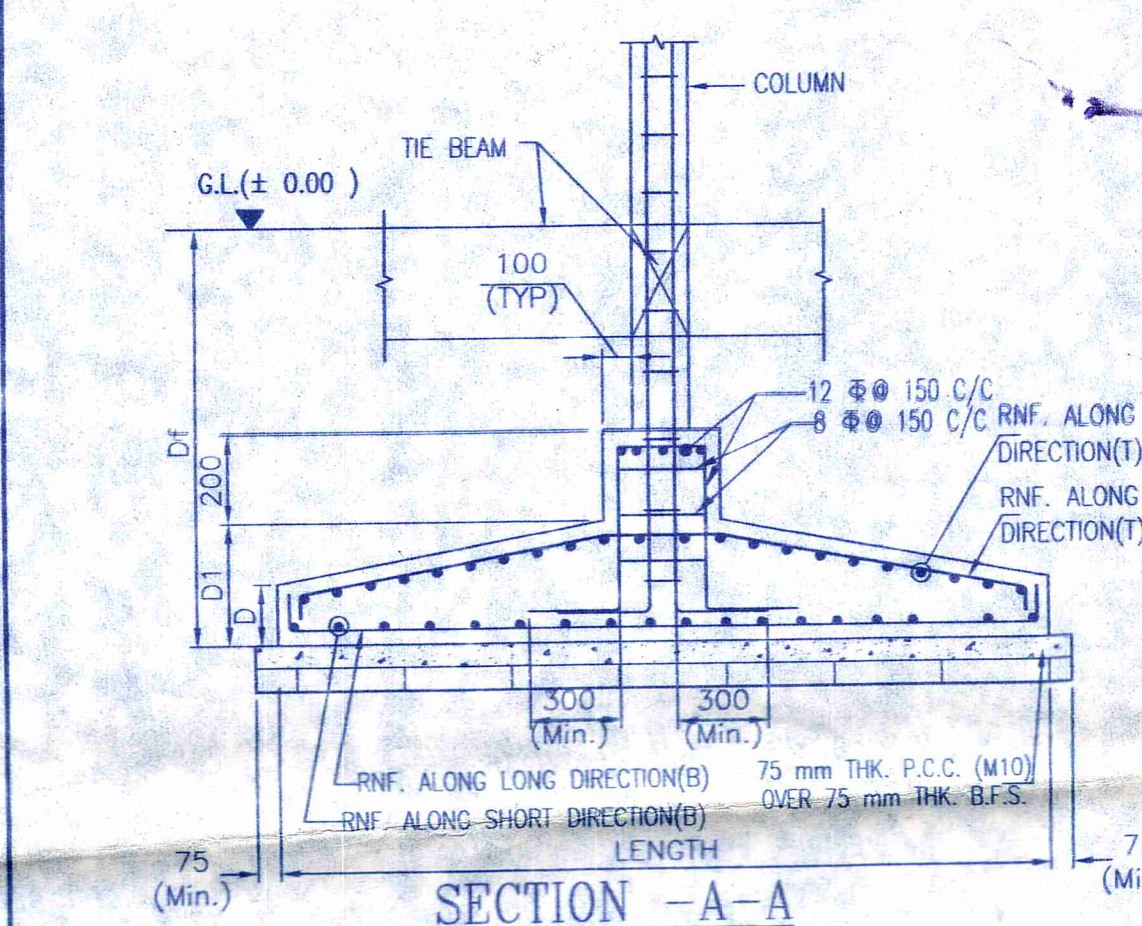


APN: 80.2/17/2022  
Date: 11/12/2022

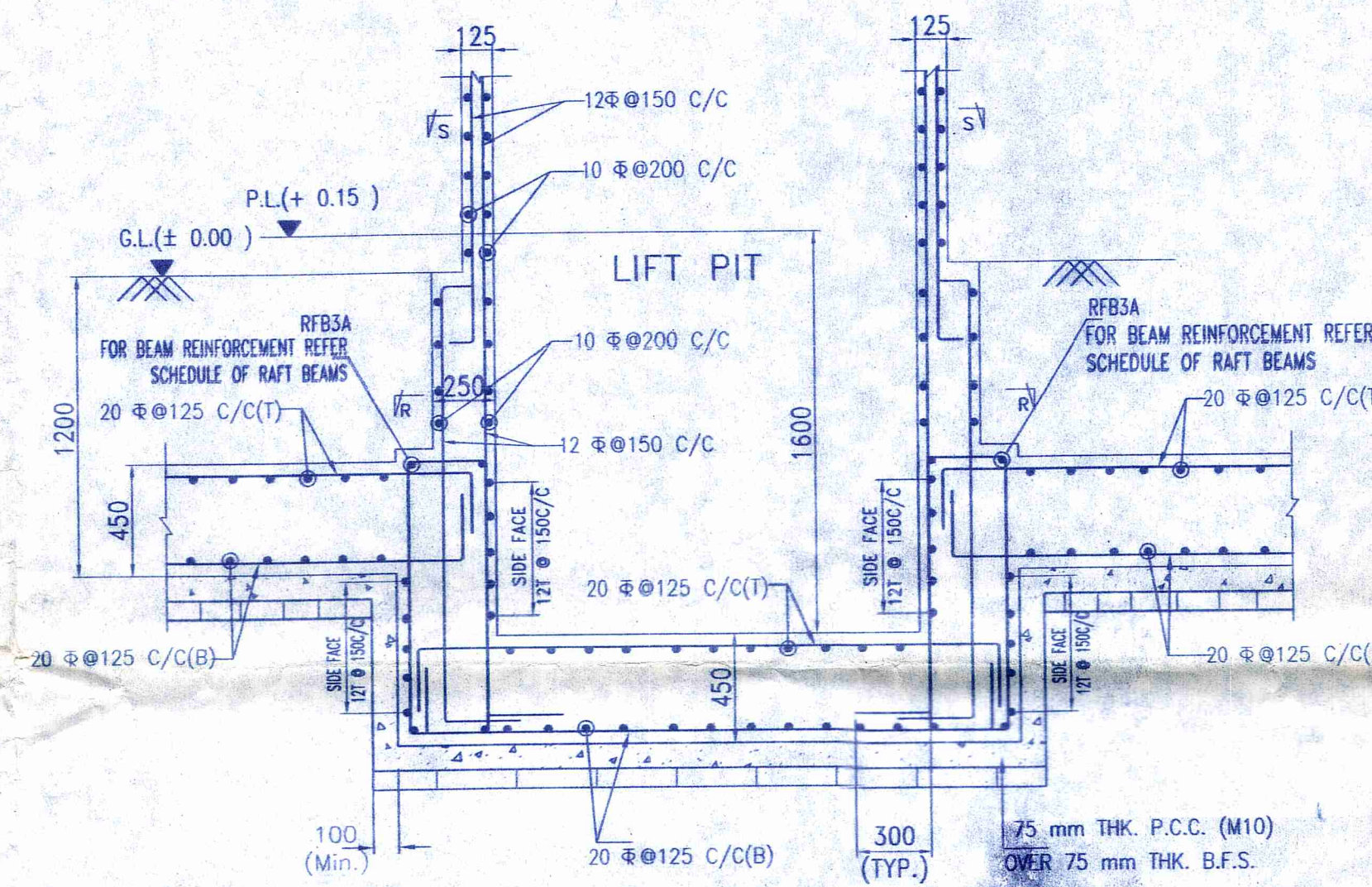
SUJOY BANERJEE  
Planner-in-Charge, Building Plan  
Durgapur Municipal Corporation



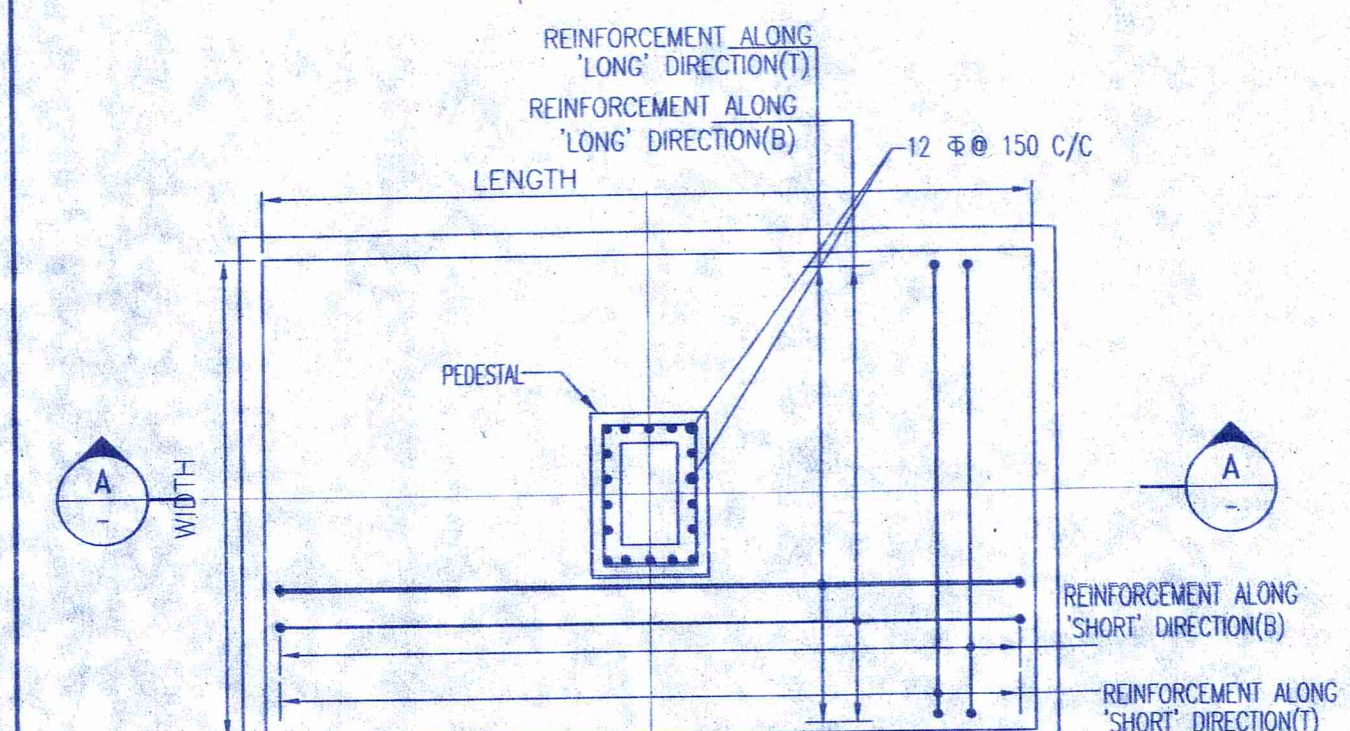
FOUNDATION LAYOUT PLAN  
RS MARKED SLAB 450mm THK.  
SCALE-1:100



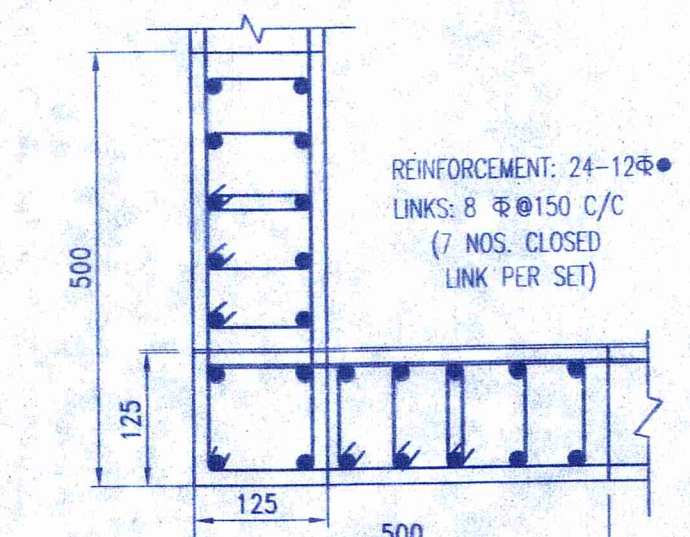
SECTION -A-A  
SCALE N.T.S.



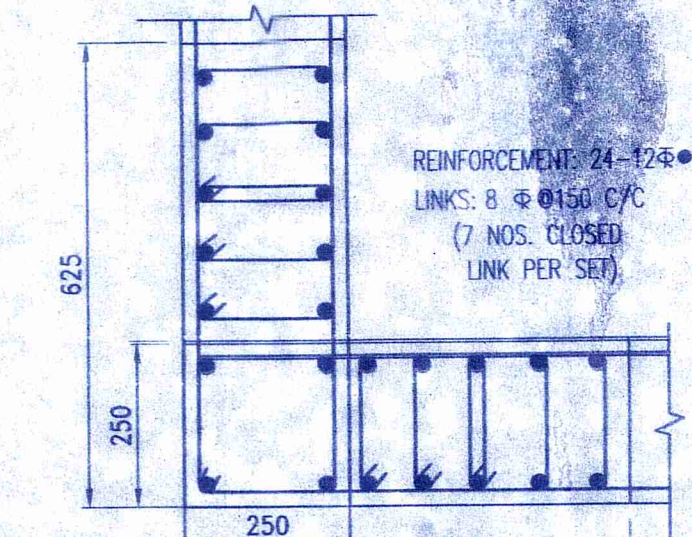
SECTION -B-B  
SCALE- 1:25



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



DETAIL "X"  
N.T.S.

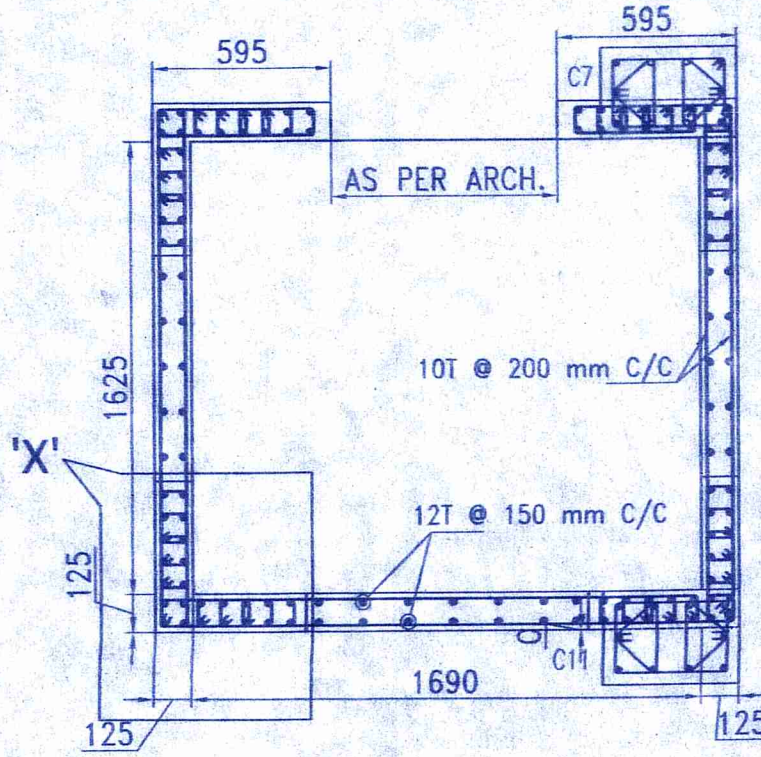


DETAIL "Y"  
N.T.S.

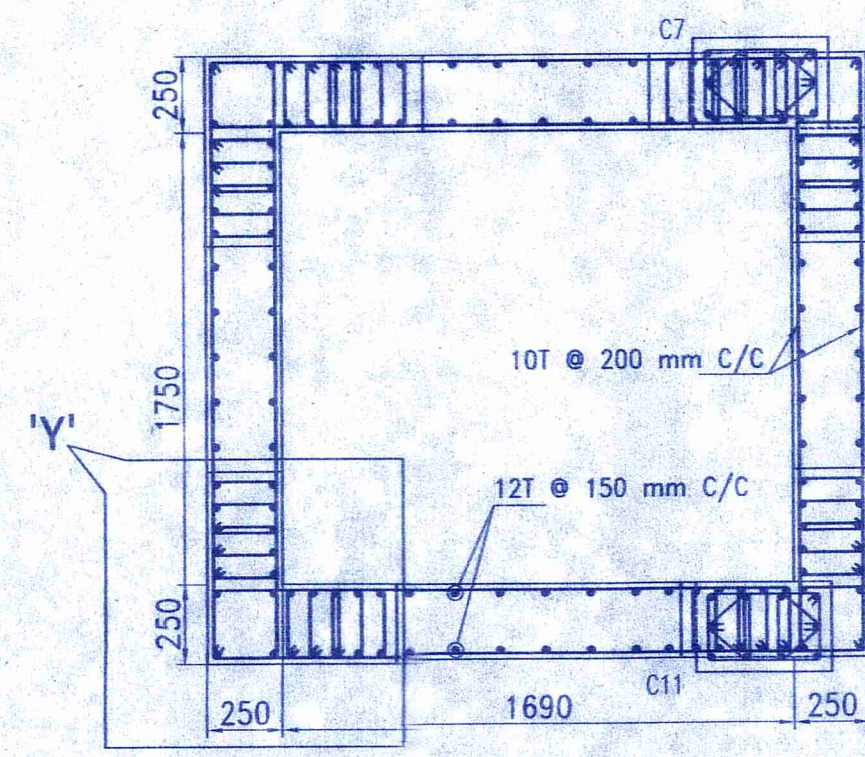
NET SAFE BEARING CAPACITIES  
CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M <sup>2</sup> )
ISOLATED	3.250m. x 2.150m.	13.8
	3.20m. x 3.20m.	13.2
	3.725m. x 2.20m.	13.4
	3.250m. x 2.550m.	13.2
	2.850m. x 2.850m.	13.4
	2.450m. x 2.450m.	13.7
RAFT	2.350m. x 2.350m.	13.8
	2.80m. x 1.775m.	13.6
	AS SHOWN IN DRAWING	10.0

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.



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



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

SCHEDULE FOR ISOLATED FOUNDATION

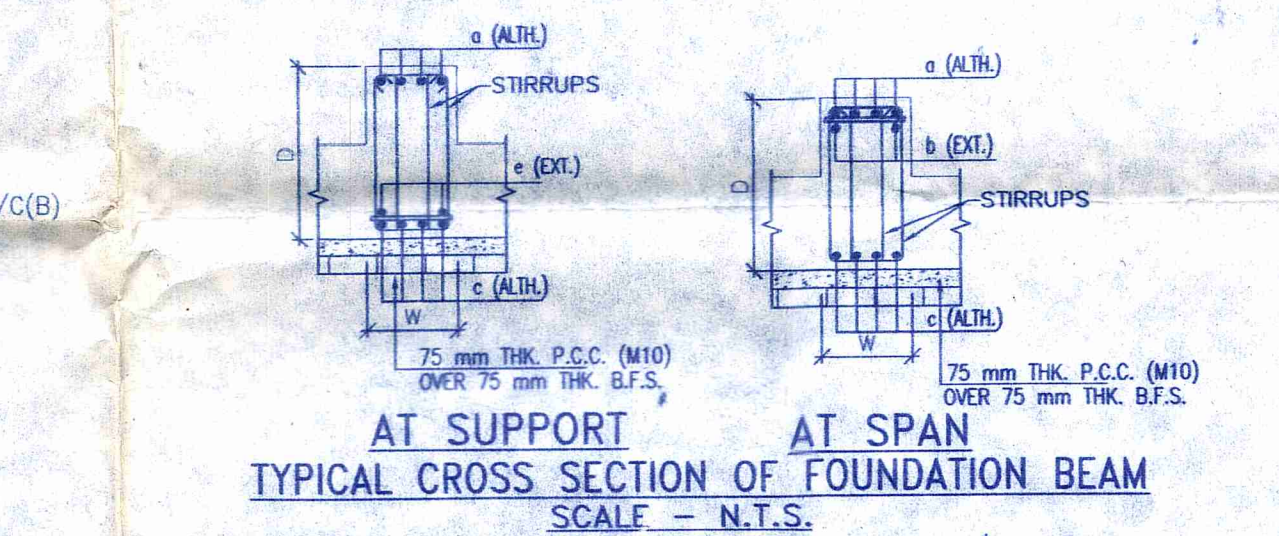
UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS					
			LENGTH (m)	WIDTH (m)	THICKNESS		DEPTH		BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
					D1 (mm)	D (mm)	D1 (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	
C1,C16,C24	F1	03	3.250	2.150	525	375	1200	12 $\Phi$ 200 C/C	16 $\Phi$ 100 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	
C2,C23	F2	02	3.20	3.20	600	450	1200	16 $\Phi$ 150 C/C	16 $\Phi$ 150 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	
C14	F3	01	3.725	2.20	625	475	1200	16 $\Phi$ 250 C/C	20 $\Phi$ 125 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	
C12	F4	01	3.250	2.550	550	450	1200	16 $\Phi$ 250 C/C	16 $\Phi$ 100 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	
C11,C20	F5	02	2.850	2.850	525	350	1200	16 $\Phi$ 150 C/C	16 $\Phi$ 150 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	
C6,C7,C21, C25,C26	F6	05	2.450	2.450	450	300	1200	16 $\Phi$ 150 C/C	16 $\Phi$ 150 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	
C8,C15	F7	02	2.350	2.350	425	300	1200	16 $\Phi$ 175 C/C	16 $\Phi$ 175 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	
C19	F8	01	2.800	1.775	450	300	1200	16 $\Phi$ 250 C/C	16 $\Phi$ 100 C/C	8 $\Phi$ 250 C/C	8 $\Phi$ 250 C/C	

SCHEDULE OF RAFT SLAB

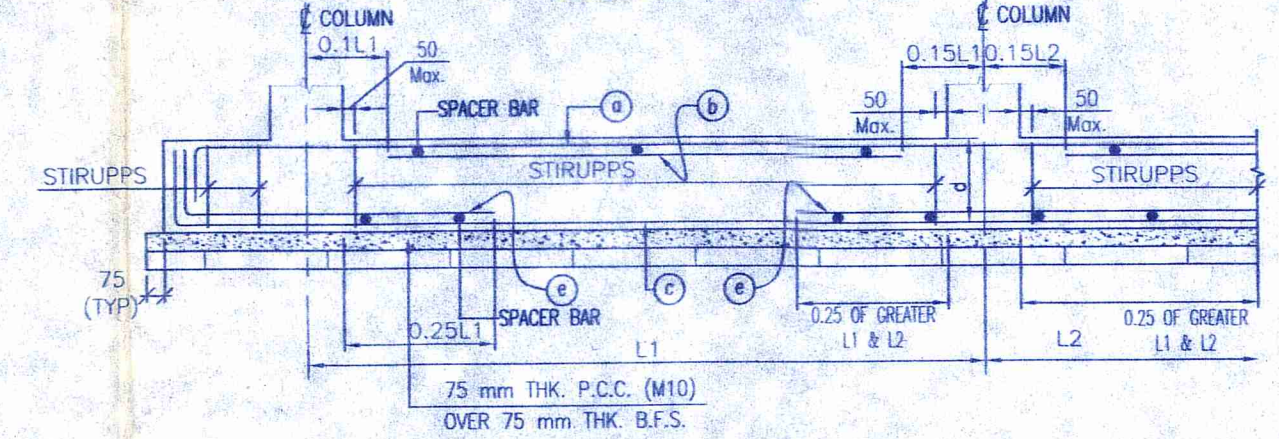
SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	450	20 $\Phi$ 125 C/C	20 $\Phi$ 125 C/C	20 $\Phi$ 125 C/C	20 $\Phi$ 125 C/C

SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	SIDE FACE
	WIDTH (mm)	DEPTH (mm)	ALTHROUGH	EXTRA AT SPAN	ALTHROUGH	EXTRA AT SUPPORT		
RFB1	550	500	5-16 $\Phi$	-	5-16 $\Phi$	4-16 $\Phi$	4L-10 $\Phi$ 125 C/C	-
RFB2	550	500	5-16 $\Phi$	2-16 $\Phi$	5-16 $\Phi$	5-16 $\Phi$	4L-12 $\Phi$ 150 C/C	-
RFB3	400	500	4-16 $\Phi$	-	4-16 $\Phi$	3-16 $\Phi$	4L-10 $\Phi$ 100 C/C	-
RFB3A	400	1200	4-16 $\Phi$	2-16 $\Phi$	4-16 $\Phi$	4-16 $\Phi$	4L-8 $\Phi$ 200 C/C	12 $\Phi$ 150 C/C



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



TYPICAL ARRANGEMENT OF REINFORCEMENT IN FOUNDATION BEAM  
(AS PER SP 34-1987)

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.

- 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
  - 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 OF ISOLATED & RAFT FOOTINGS AT DEPTH (-)1.2m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ASIM SARKAR.
  - THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL 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 FIVE (G+4) & ONE EXTRA FLOOR OF (G+4+1) SIX STORED RESIDENTIAL APARTMENT OF 1.) SANJIT KR. SINGH 2.) SHRABANI SINGH 3.) TARAK NATH MONDAL & 4.) NIRMAL MAJHI, OVER R.S. PLOT NO - 747(P), L.R PLOT:- 1876, 1877, 1849/1870, 1854/2871. L.R. KHATIAN NO- 6045,5211,5212,6060, J.L. NO - 56, OF MOUZA - KURURIA, P.S.- DURGAPUR, DIST. - BURDWAN PASCHIM UNDER D.M.C HOLDING NO:-308/N ,CIRCLE/WARD NO:-11, ASSESSMENT NO:-3309402867339, STREET:- SABUJ NAGAR ,DGP-03.

SIGNATURE OF OWNER  
  
SIGNATURE OF CONSULTANT/ARCHITECT  
AR. JUI CHATTERJEE, B.Arch  
Registration No.: CA/2021/134352  
Ph: 9434843385, 7555934111  
4/13, Sushata Commercial Complex,  
Durgapur - 713216  
JUI CHATTERJEE  
(COA REG NO.-CA/2021/134352)

SIGNATURE OF GEOTECHNICAL ENGINEER  
ASIM SARKAR  
BCE, M.E(SOIL), MGS, MIE  
EMPLOYED GEOTECHNICAL ENGINEER  
IQC No. GTECLASS-42

SIGNATURE OF STRUCTURAL ENGINEER  
S. Choudhury 22/2/22  
SUSMITA CHOUDHURY  
B.TECH (CIVIL) - WBUT  
ME (CONSTRUCTION) - JU  
ESE-17/RJSPON/130  
ESE-17/AMC/664  
STER/NKDA/21/00010  
CVER/NKDA/10/00175  
(M)-8697517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY  
CHECKED & VETTED  
DR. DIPANKAR BHAKRAVARTY  
STRUCTURAL ENGINEER  
PROFESSOR & HEAD, DIVISION  
CIVIL ENGINEERING DEPARTMENT  
MEGHALAYA UNIVERSITY  
M.TECH (STRUCTURAL)  
PH.D (CIVIL)  
COPF 103-245-2888  
EM: DRDIPANKAR & 8433699143  
EMAIL: Prof.dipankar@gmail.com

DRAWING TITLE  
FOUNDATION LAYOUT PLAN AND REINFORCEMENT DETAILS.  
SCALE - 1:100 OR AS SHOWN  
DATE - 22.02.2022  
SHEET NO. - 1 OF 4