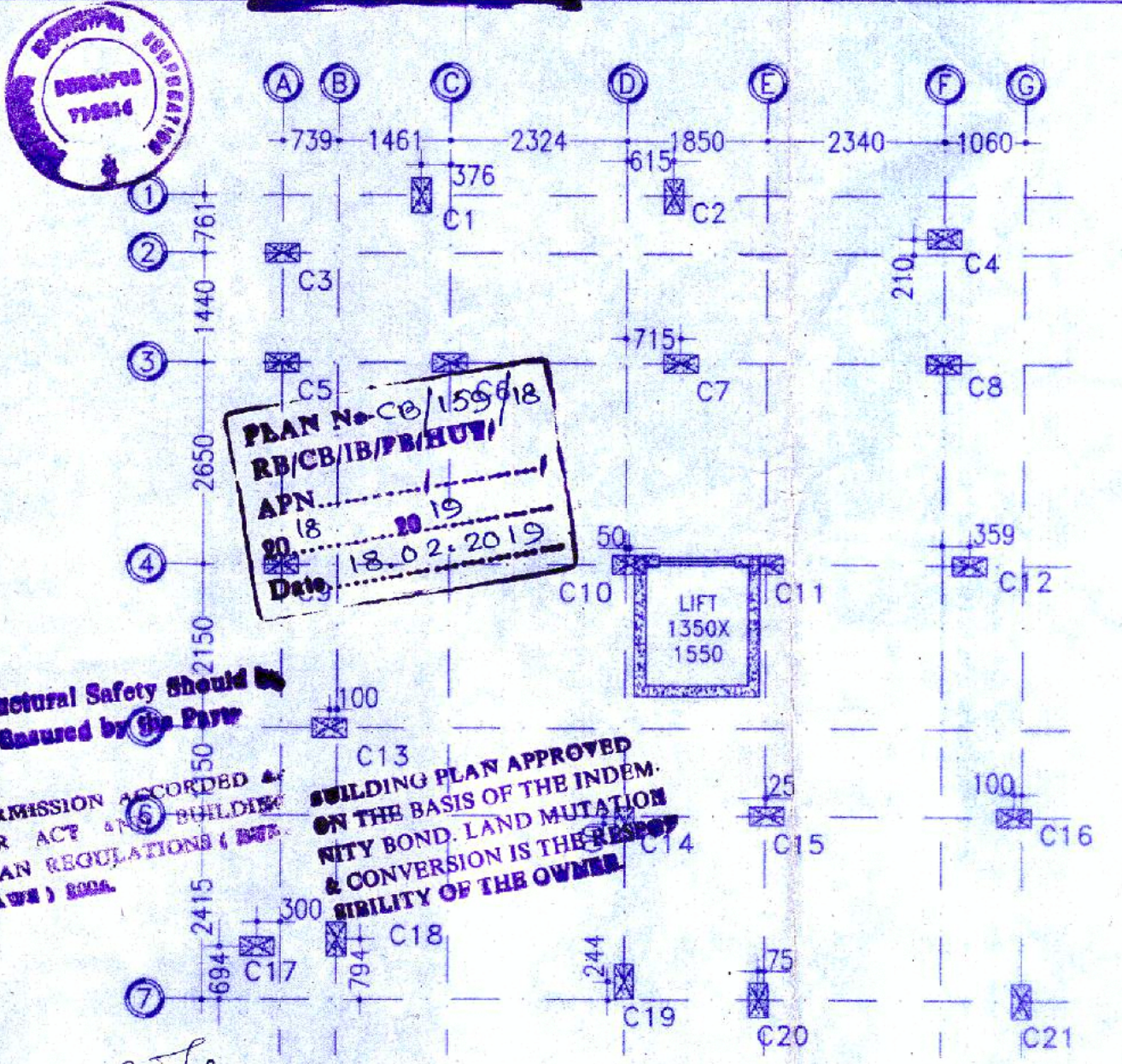
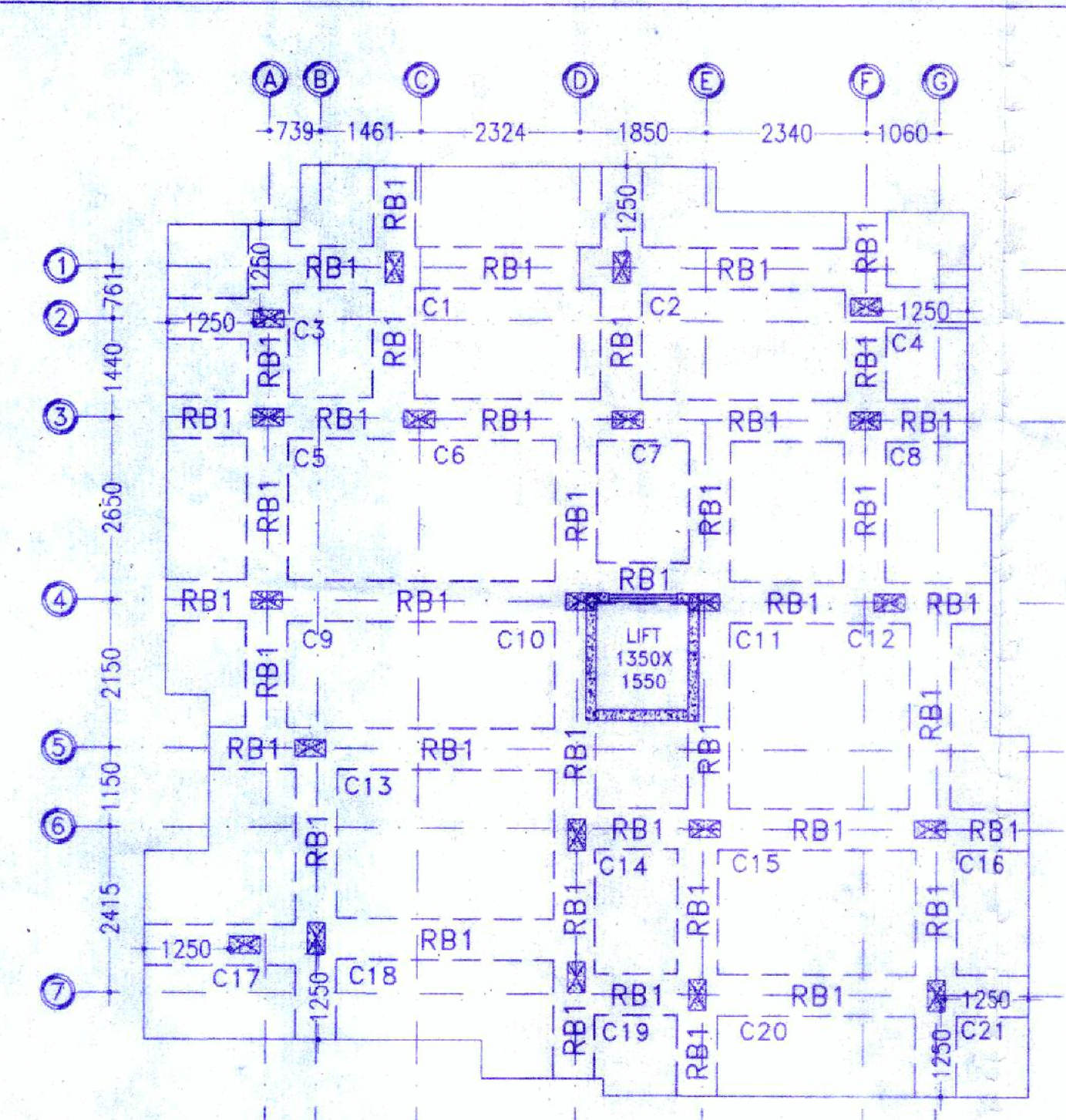


**APPROVED**



Structural Safety should be assured by the Designer  
 PERMISSION AS PER ACT & RULES ON THE BASIS OF THE INDEMNITY BOND. LAND MUTATION & CONVERSION IS THE RESPONSIBILITY OF THE OWNER.

1. COLUMN LAYOUT PLAN  
 SCALE: 1:100



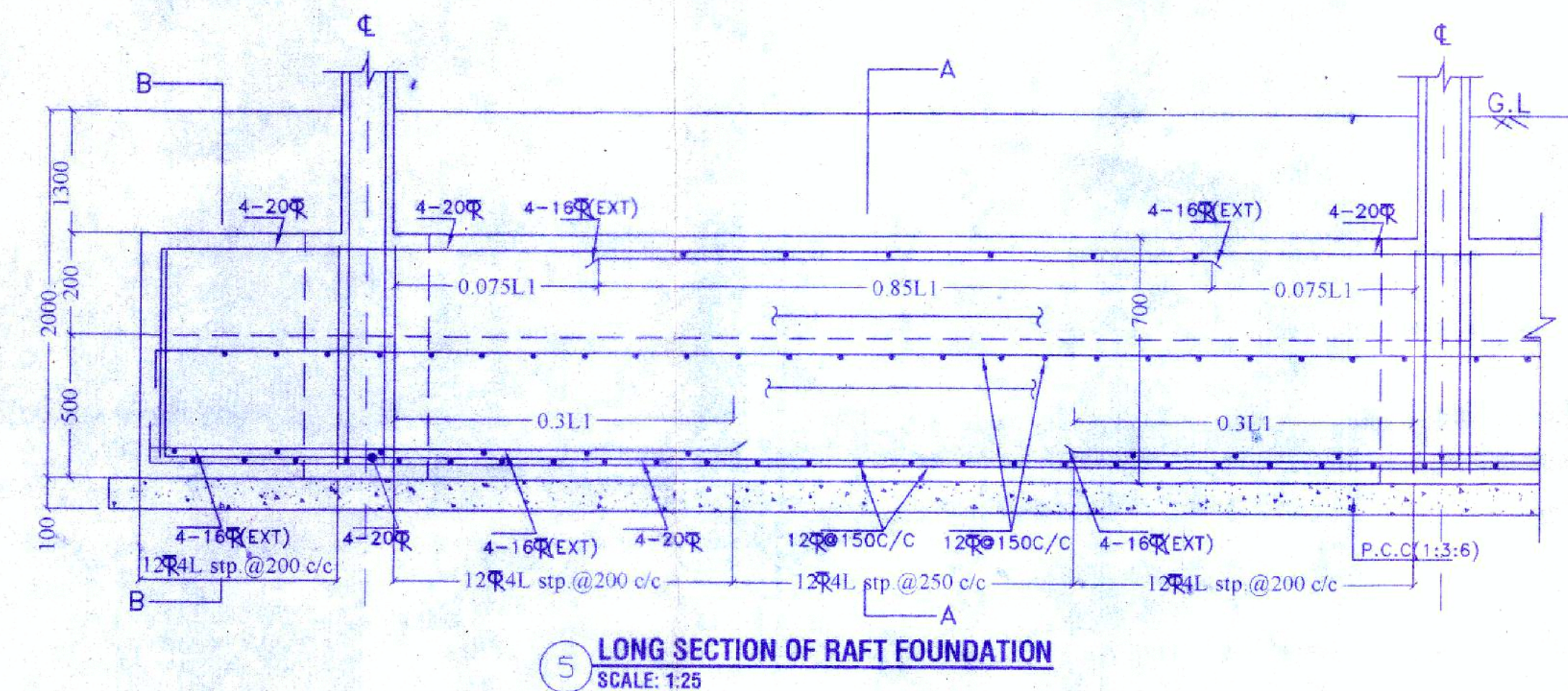
2. RAFT FOUNDATION LAYOUT PLAN  
 SCALE: 1:100

TABLE NO. 02 (SCHEDULE OF RAFT BEAMS)

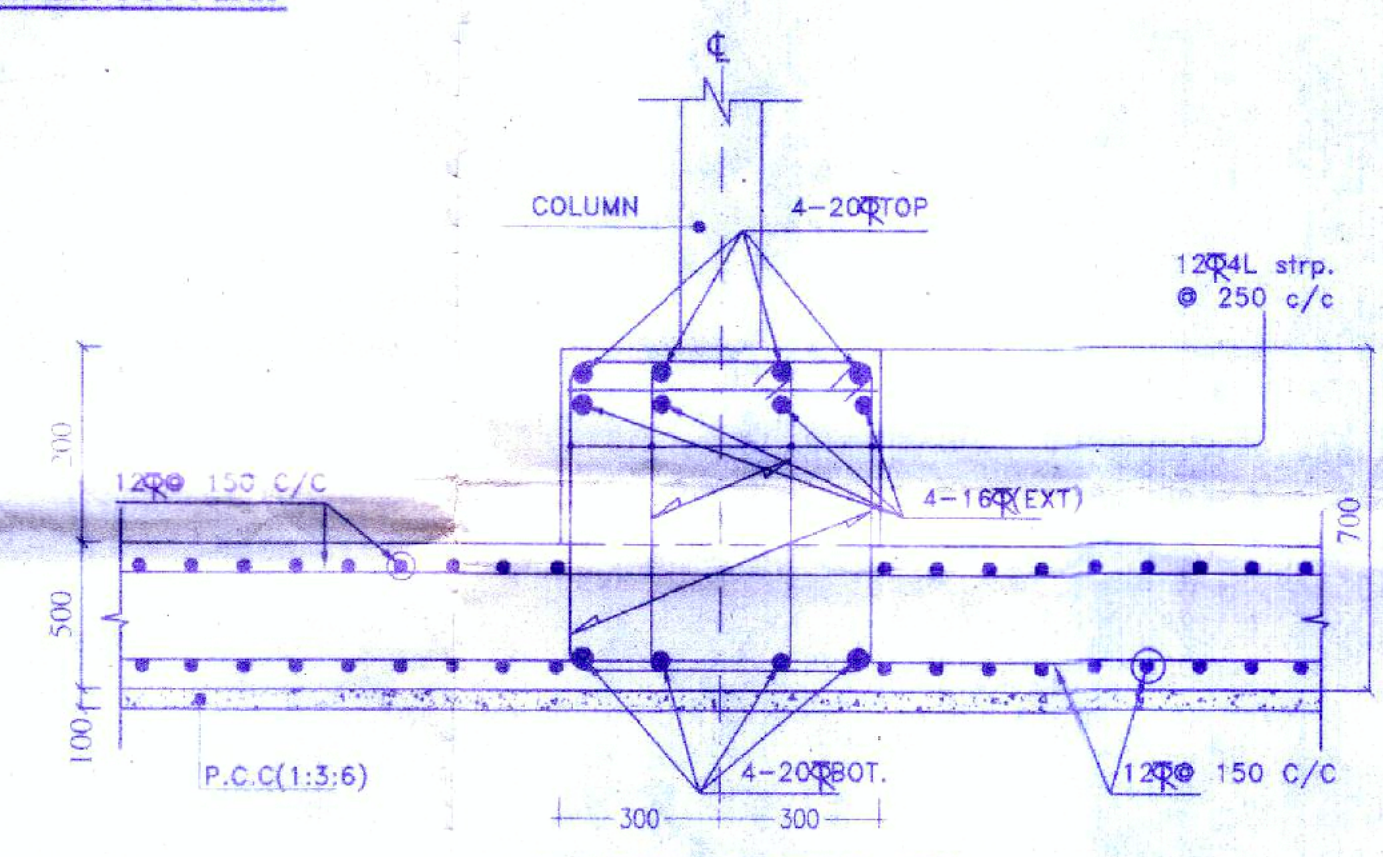
Beam Mkd	Size	All Through	Ext. at End Supp. Bott.	Ext. at Span Top.	Ext. at Cont. Supp. Bott.	STIRRUPS
RB1	600 x 700	4-20T	4-20T	4-16T	4-16T	4L-12T@200c/c

1. SCHEDULE OF COLUMNS

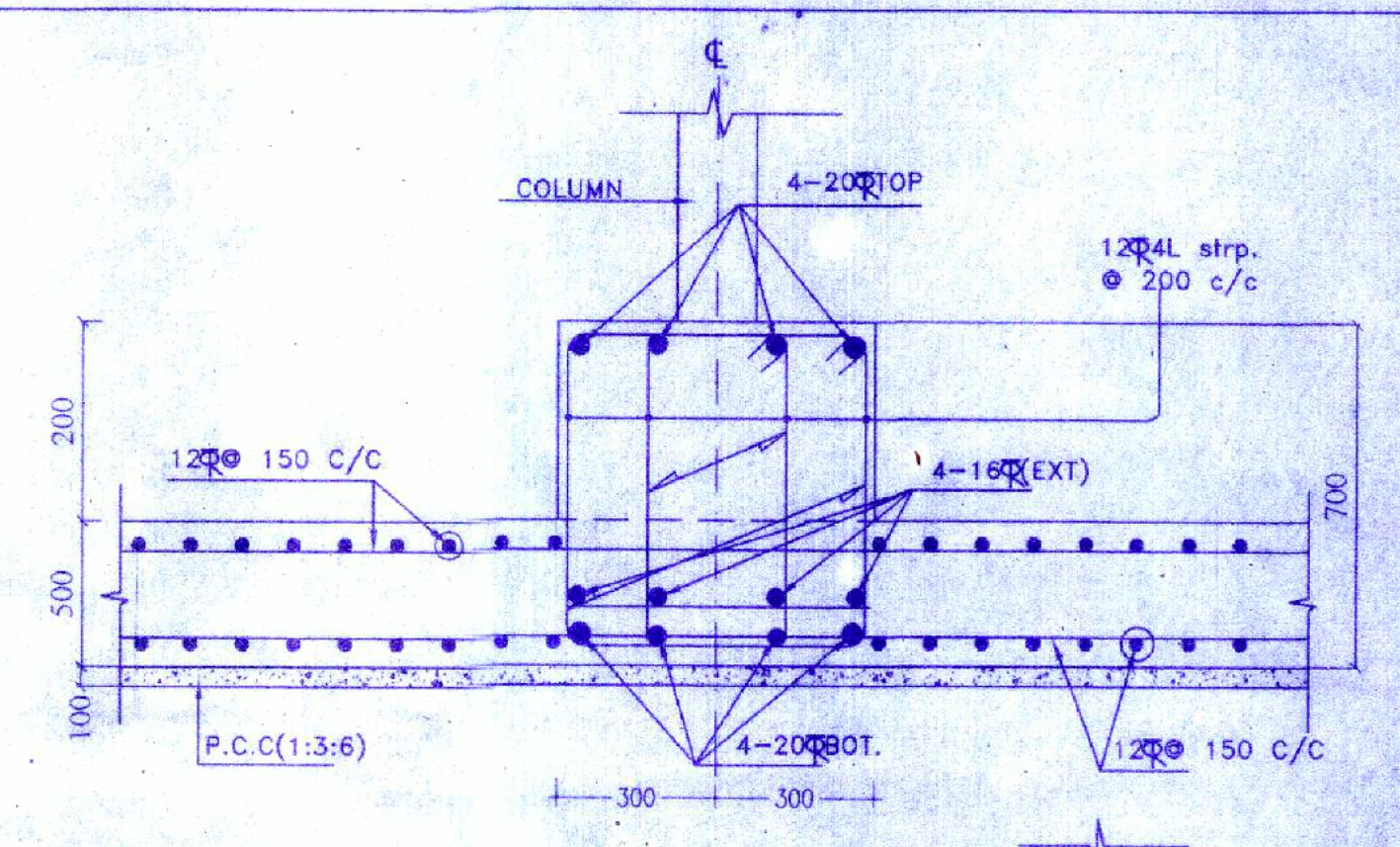
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 1ST FLOOR	2ND & 3RD FLOOR	4TH FLOOR TO ROOF	TIE
C6, C7, C10, C11, C14, C15.	6	250 x 450	LONGITUDINAL REINFORCEMENT: 450 REINFORCEMENT: 8-20 + 2-16	LONGITUDINAL REINFORCEMENT: 450 REINFORCEMENT: 6-20 + 4-16	LONGITUDINAL REINFORCEMENT: 450 REINFORCEMENT: 4-20 + 6-16	NEAR JUNCTION (UPTO 16') LENGTH (3 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS 8-20@150C/C (3 NOS. CLOSED LINK PER SET)
C1, C2, C3, C4, C5, C8, C9, C12, C13, C16, C17, C18, C19, C20, C21.	15	250 x 450	LONGITUDINAL REINFORCEMENT: 450 REINFORCEMENT: 8-20 + 4-16	LONGITUDINAL REINFORCEMENT: 450 REINFORCEMENT: 4-20 + 6-16	LONGITUDINAL REINFORCEMENT: 450 REINFORCEMENT: 10-16	NEAR JUNCTION (UPTO 16') LENGTH (3 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS 8-20@150C/C (3 NOS. CLOSED LINK PER SET)



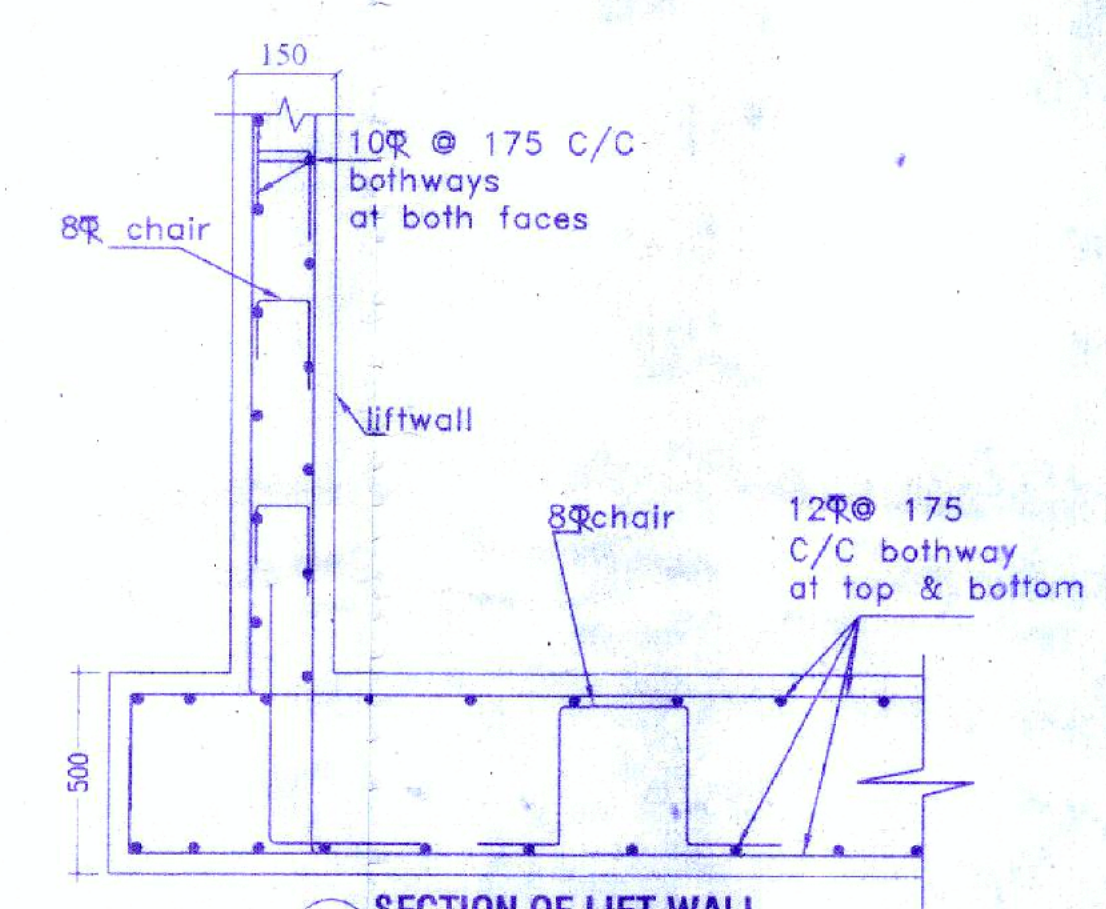
5. LONG SECTION OF RAFT FOUNDATION  
 SCALE: 1:25



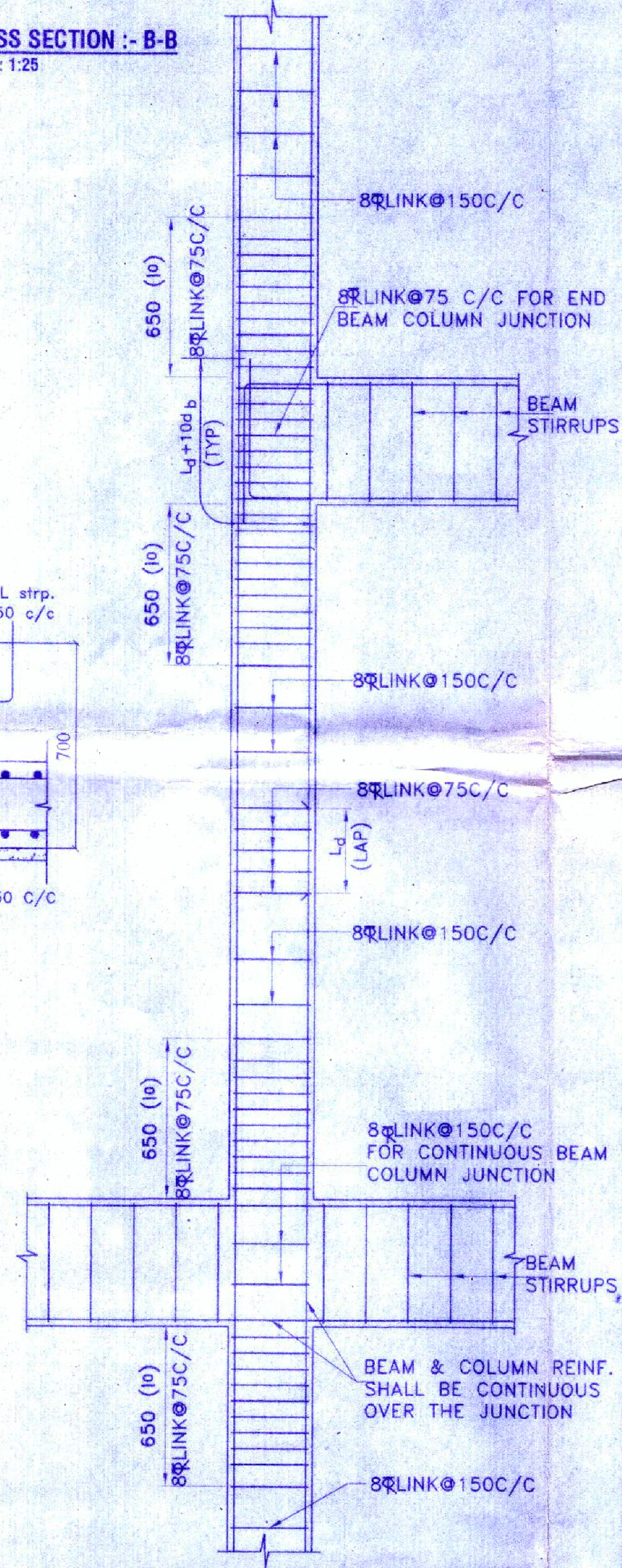
4. CROSS SECTION - A-A  
 SCALE: 1:25



3. CROSS SECTION - B-B  
 SCALE: 1:25



6. SECTION OF LIFT WALL  
 SCALE: N.T.S.



TYPICAL DETAIL OF BEAM COLUMN JUNCTION

PROJECT NAME:-  
 STRUCTURAL DRAWING OF PROPOSED (G+5) SIX STORED RESIDENTIAL APARTMENT BUILDING OF 1) JHANTU DAS, 2) SONTU DAS, 3) SIMA DAS, KHATAN NO:- 2507, 2508, 2509, R.S. PLOT NO:- 221, 222, L.R. PLOT NO:- 220, 222, MOUZA:- FARIDPUR, J.L. NO:- 74, P.S:- FARIDPUR, HOLDING NO:- 169, WARD NO:- 21, ID NO:- 5272, ADDRESS:- 12/28 ANANDAPURI CO-OPERATIVE, 54 FEET BENACHITY, DURGAPUR-13

- NOTES :-
- All dimensions are in mm otherwise stated.
  - Safe bearing capacity of soil taken - 10.6T/SQ.M
  - Grade of concrete M25
  - Grade of steel Fe 500.
  - Depth of foundation adopted 2.00 m.
  - The top layer of reinforcement shall be placed over bot layer of reinforcement with chair of 10# bar @ 900 c/c.
  - At a time of construction ductile detailing must be followed as per IS:13920.
  - 8# Binder @ 200 C/C binder for top & bot bar as required.

SIGNATURE OF DEVELOPER/OWNER:-

Sima Das  
 Jhantu Das  
 Sandu Das

SIGNATURE OF STRUCTURAL ENGINEER:-

The Structural Design and Drawing of Raft Foundation and Super Structure of the Building has been Made by Me. Considering all Possible Loads Including the Seismic Load as per The National Building Code of India and Certified that it is Safe and Stable in all Respect.

Hrush Ghosh  
 HIRSH GHOSH  
 Structural Engineer  
 Lic No. LBPM/162/AMC  
 DCE, B.TECH. B.E.S. Durgapur-16  
 Contact No. 933223331

SIGNATURE OF GEOTECHNICAL ENGINEER:-

THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT.

MANOJ MAITY  
 MANOJ MAITY  
 Civil / Geotechnical Engineer  
 Lic No. LBPM/162/AMC  
 G.I.D.S. Durgapur - 16

VETTED BY:-

Dr. S.N. Mukherjee  
 Professor  
 Civil Engineering Department  
 Jadavpur University

TITLE:-

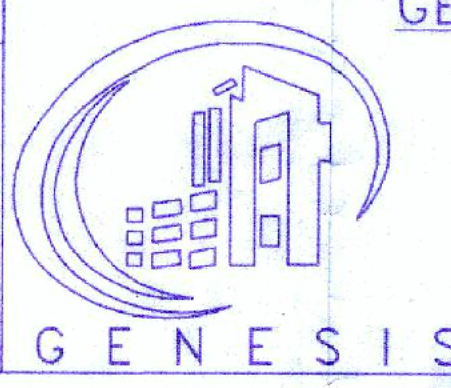
STRUCTURAL RCC DETAILING & LAYOUT PLAN OF RAFT FOUNDATION & COLUMN ALONG WITH SECTIONAL DETAILS, SCHEDULE OF COLUMN & RAFT FOUNDATION, SECTIONAL DETAILING OF LIFT WALL.

SIGNATURE OF ARCHITECTURAL ENGINEER:-

I DO HEREBY CONFIRM AND CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN PREPARED BY ME KEEPING THE PROVISION OF NBC OF INDIA AND CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECT.

Hrush Ghosh  
 HIRSH GHOSH - (Class-A)  
 Consultant Civil Engineer - (Class-A)  
 Lic No. LBPM/162/AMC  
 DCE, B.TECH. G.I.D.S. Durgapur-16  
 Contact No. 933223331

OFFICE USED:-



GENESIS INFRASTRUCTURE DEVELOPMENT SERVICES

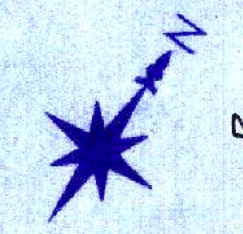
(AN ORGANIZATION OF CONSULTANT ENGINEERS)  
 E-mail Id:- gidsbengal@gmail.com & gidsbengal.project@gmail.com  
 SPECIALIST IN CONSULTING, STRUCTURAL DESIGN, SURVEYING & SOIL INVESTIGATING

OFFICE:- C-29, 4th street, Doctor's Colony, City Centre Durgapur - 713216  
 Contact No:- +919333233331, +917699998140

CHECKED BY: H.GHOSH SCALE: 1:100, 1:50, 1:25, N.T.S.

DATE: 22.12.2018 REV-00

SHEET NO:- GIDS/STRU01-02



24/12/18