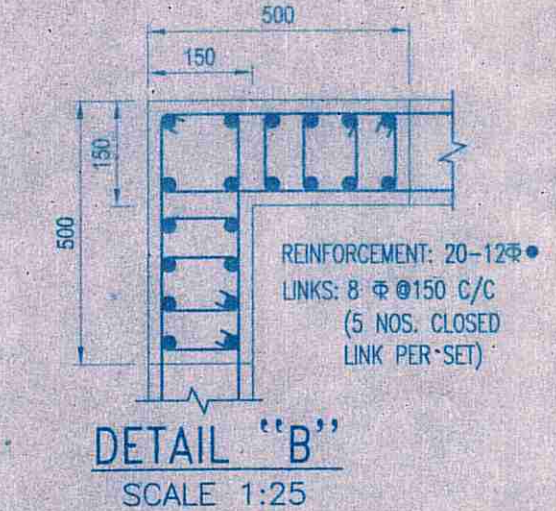
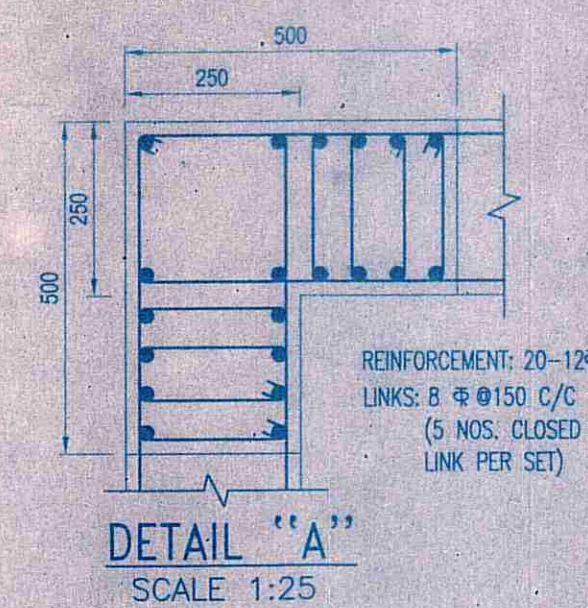


FOUNDATION LAYOUT PLAN  
SCALE - 1 : 100

BEAM MARKED	BEAM SIZE WIDTH (mm) DEPTH (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	SIDE FACE RNF. (EACH FACE)
		ALLTHROUGH (D)	EXTRA AT SPAN (E)	ALLTHROUGH (C)	EXTRA AT SUPPORT (F)		
RFB1	700 850	7-16 Φ	4-16 Φ	7-20 Φ	4-16 Φ	4L-10 Φ 150 C/C	2-12 Φ
RFB2	800 850	7-16 Φ	4-16 Φ	7-20 Φ	4-16 Φ	4L-10 Φ 150 C/C	2-12 Φ
RFB3	800 850	7-20 Φ	4-20 Φ	7-20 Φ	4-20 Φ	4L-10 Φ 150 C/C	2-12 Φ
RFB4	600 700	5-16 Φ	2-16 Φ	5-20 Φ	2-16 Φ	4L-10 Φ 150 C/C	-

SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
	BOTTOM	TOP	BOTTOM	TOP
500	16 Φ 150 C/C	16 Φ 150 C/C	16 Φ 150 C/C	16 Φ 150 C/C



- 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). HOWEVER ARCHITECTURAL DRAWING TO BE COORDINATED FOR ALL LEVELS.
  - ±0.00 LVL. REFERS TO E.G.L.
  - GRADE OF CONCRETE SHALL BE M30 FOR SUBSTRUCTURE.
  - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT. BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008 AND ELONGATION SHALL BE MINIMUM 16.0 PERCENT.
  - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
    - i) RAFT (TOP/SIDE/BOTTOM) : (50/50/50)MM
    - ii) RAFT BEAM : 50 MM
    - iii) SHEAR WALL : 20 MM
  - DEVELOPMENT LENGTH 50XD FOR LAP & SPICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
  - ALL 'L' BENDS OF REINFORCEMENT ARE 300 mm (MIN).
  - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
  - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
  - THE NET SAFE BEARING CAPACITY FOR THE RAFT FOUNDATION SIZE AS PER FOUNDATION LAYOUT AT A DEPTH (-) 2.0 m FROM E.G.L. HAS BEEN CONSIDERED AS 12.70 T/SQM AS PER SOIL REPORT THIS SHOULD BE ENSURED AT SITE. N VALUE > 15 AT FOUNDING LEVEL SHOULD BE ENSURED AT SITE. UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER.

TITLE  
 PROPOSED STRUCTURAL DRAWING OF G+7 STORIED RESIDENTIAL BUILDING OF SRI PRABAL BARAN CHATTERJEE & SRI SHAI BAL CHATTERJEE OVER R.S. PLOT NO.- 1570, L.R. PLOT NO. - 1661, KHATIAN NO. - 2877, 2879 OF MOUZA- ARRACH J.L. NO.- 91, P.S.- KANKSA, DIST- BURDWAN.

CERTIFICATE OF STRUCTURAL ENGINEER

CERTIFIED THAT THE STRUCTURAL DRAWING AND DESIGN OF BOTH THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING/BUILDINGS HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT AS PER THE RULES, THE REGULATIONS AND CODE MADE AND ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD AND THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER CURRENT CODES THE BUREAU OF INDIAN STANDARD AND NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT UP TO G+V STORIED AND THESE PROVISIONS SHALL BE ADHERED TO DURING THE CONSTRUCTION.

Soumyadip DUTTA  
 SOUMYADIP DUTTA  
 CIVIL ENGINEER (B.TECH)  
 W.B.U.T.  
 30/3/17  
 30/3/17  
 NIRMALYAN CHATTERJEE  
 B.E.(CIVIL), M.E (STRUCT-AME)  
 Empowered Structural Engineer K.M.C.  
 Licenses No.- E.S.E./11/181

CERTIFICATE OF ARCHITECT

I CERTIFY THAT ALL THE ARCHITECTURAL DRAWING OF THIS PROJECT PREPARED BY ME COMPLYING WITH THE PROVISIONS OF NATIONAL BUILDING CODE/WEST BENGAL MUNICIPAL BUILDING RULES (CURRENT) AND SUCH WRONG AND INCORRECT INFORMATION HAS BEEN FURNISHED BY ME INCLUDING AREA CALCULATION CHART IN THIS DRAWING & NO VIOLATION OF THE PROVISION OF THESE RULES WILL BE FOUND IN ANY OF THE DRAWING & DOCUMENTS, SUBMITTED TO THE SANCTIONING AUTHORITY FOR SANCTION.

Vijaya Singh  
 VIJAYA SINGH  
 Architect  
 DMCC Registered  
 LIC No.-L/MC/BPD/60

SIGNATURE OF GEOTECHNICAL ENGINEER

IT IS CERTIFIED THAT THE COMPREHENSIVE GEO-TECHNICAL REPORT ON SOIL INVESTIGATION HAS BEEN PREPARED BY ME FOR DESIGN AND CALCULATION OF THE FOUNDATION BY ANALYZING THE SOIL SAMPLE FOR ESTIMATING THE BEARING CAPACITY OF THE SOIL ON WHICH FOUNDATION OF THE STRUCTURE WILL BE CONSTRUCTED. I SHALL ALSO CHECK THE NATURE OF THE SOIL AFTER EXCAVATION AT SITE SO THAT FOUNDATION IS EXTENDED UP TO APPROPRIATE DEPTH THAT HAS BEEN PROPOSED IN THE GEO-TECHNICAL REPORT.

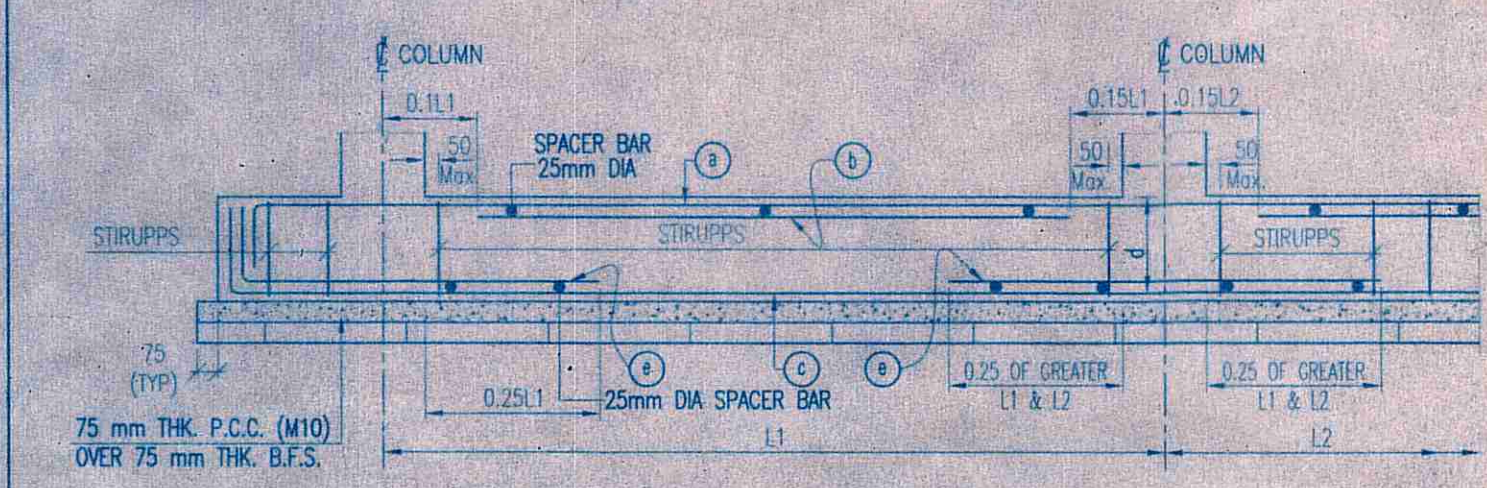
ALEX ROY  
 Empowered Geotechnical Engineer  
 Kolkata Municipal Corporation  
 Class-I, No.- 6/T/11  
 6A, Midhan Park,  
 Kolkata-700 088

CERTIFICATE OF OWNER

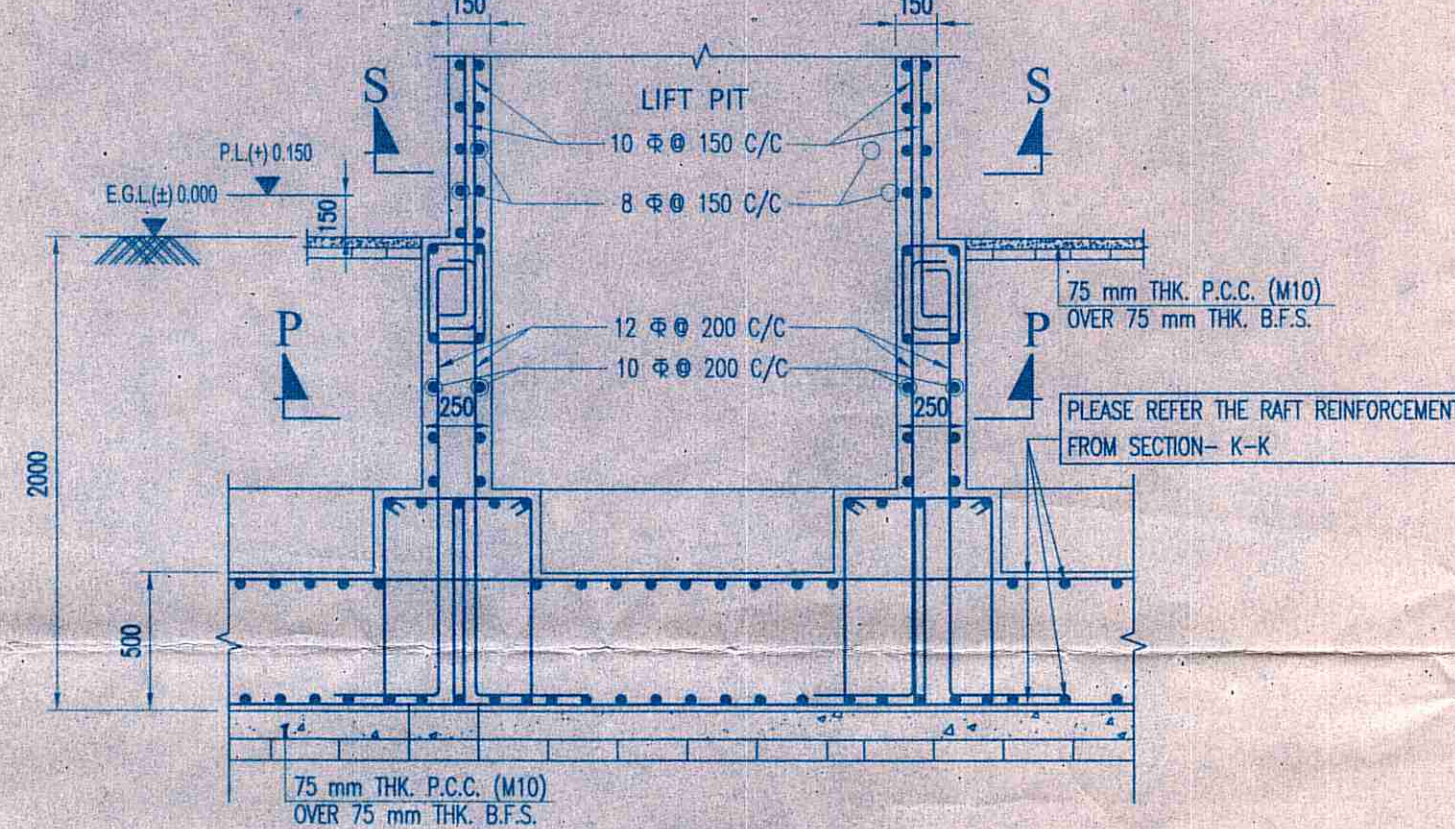
I SHALL NOT CONSTRUCT THE BUILDING IN DEVIATION OF THE SUBMITTED PLANS & DRAWINGS.  
 Approved vide Memo No- 1155/AB/PS-1 dated 19/05/2017 by Assistant Engineer  
 Sandhanan Chatterjee  
 Shaibal Chatterjee  
 Bandhanan Chatterjee  
 (As per)

APPROVED  
 Vinay Kumar  
 Pradhan  
 Malandighi Gram Panchayat  
 18/11/2022  
 APPROVED  
 Gopal Chandra  
 Pradhan  
 Malandighi G.P.

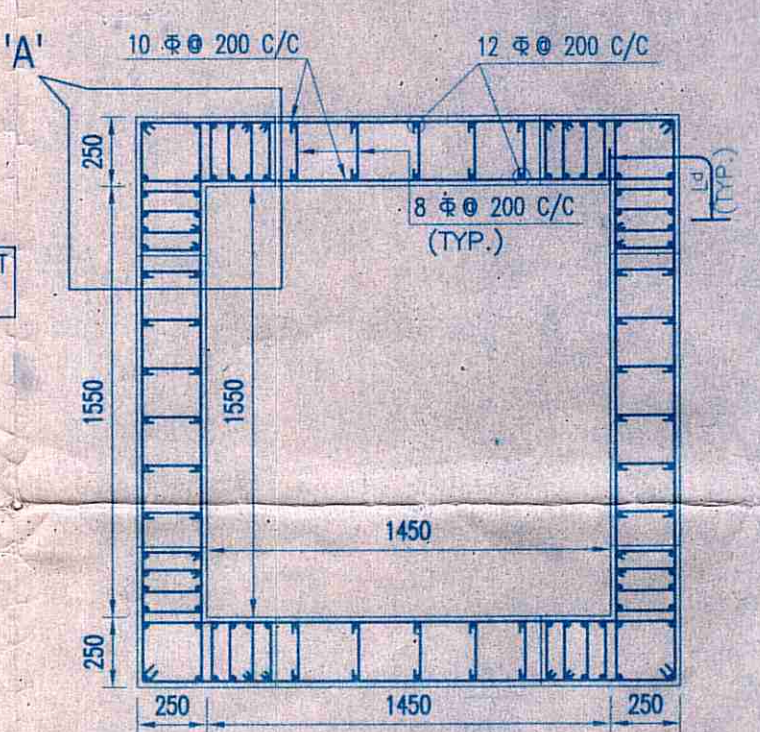
REV - R1  
 DRAWING TITLE:  
 FOUNDATION LAYOUT PLAN & REINFORCEMENT SCHEDULE  
 SCALE:- 1:100 OR AS SHOWN  
 DATE:- 17.03.17  
 SHEET NO.- SA-G+7-STR-0001



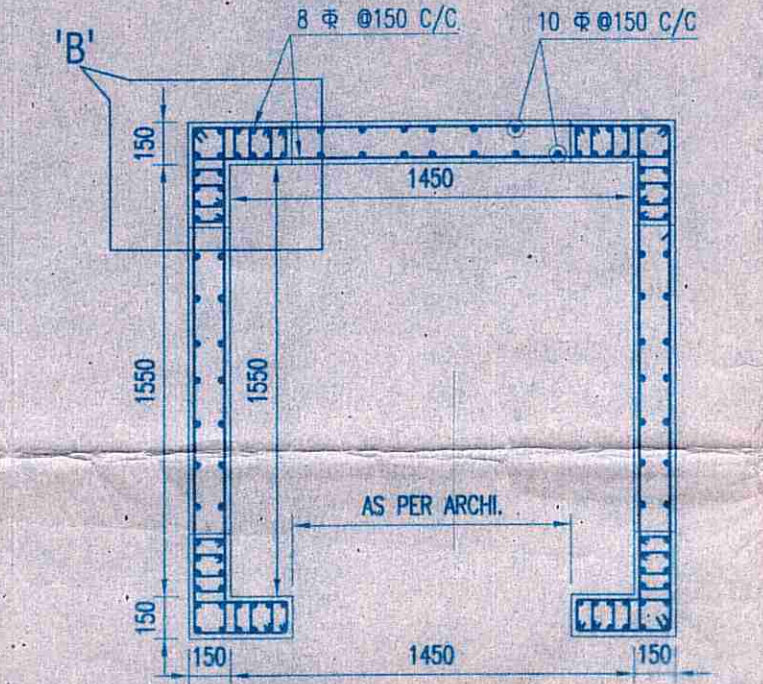
TYPICAL ARRANGEMENT OF REINFORCEMENT IN FOUNDATION BEAM  
 (AS PER SP 34-1987)  
 (SCALE-1:25)  
 d= EFFECTIVE DEPTH OF BEAM  
 DL= DOUBLE LAYER



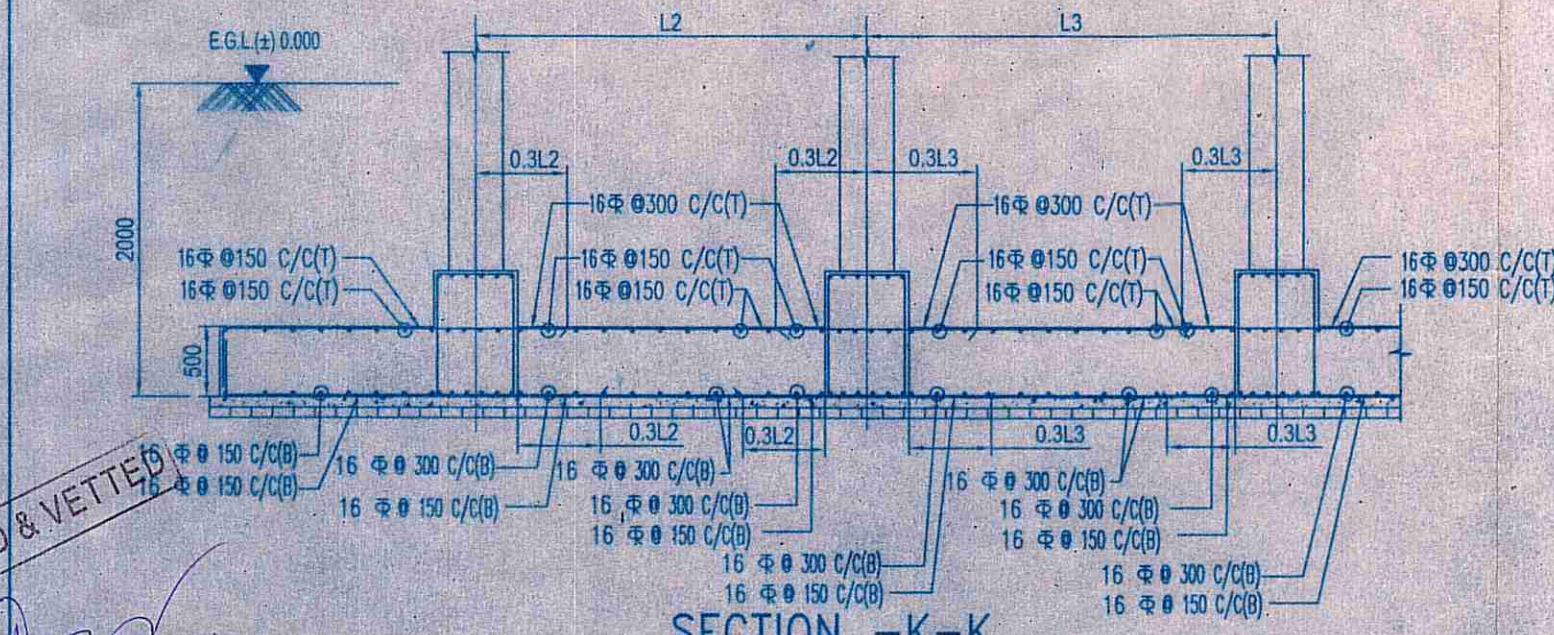
SECTION X-X  
 SCALE 1:25



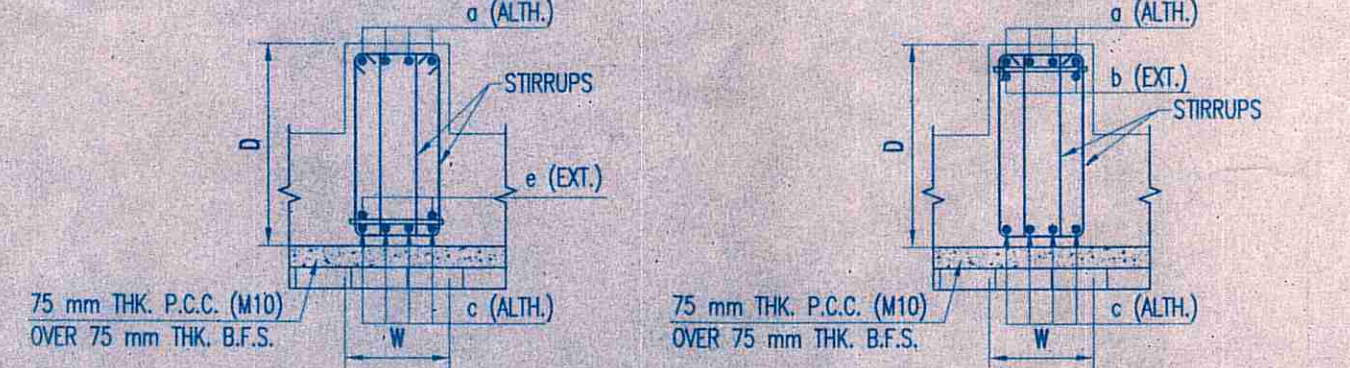
LIFT WALL PLAN AT BASE LEVEL SECTION (P-P)  
 SCALE 1:25



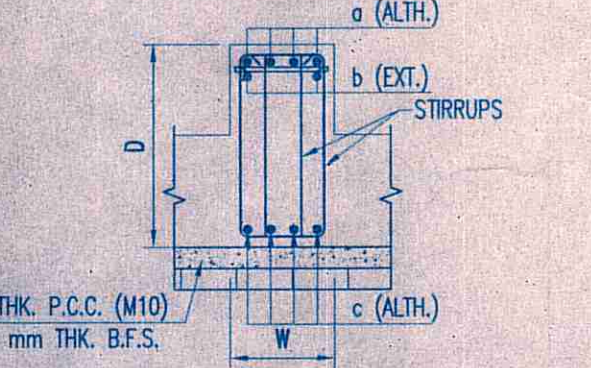
LIFT WALL PLAN AT FLOOR LEVEL SECTION (S-S)  
 SCALE 1:25



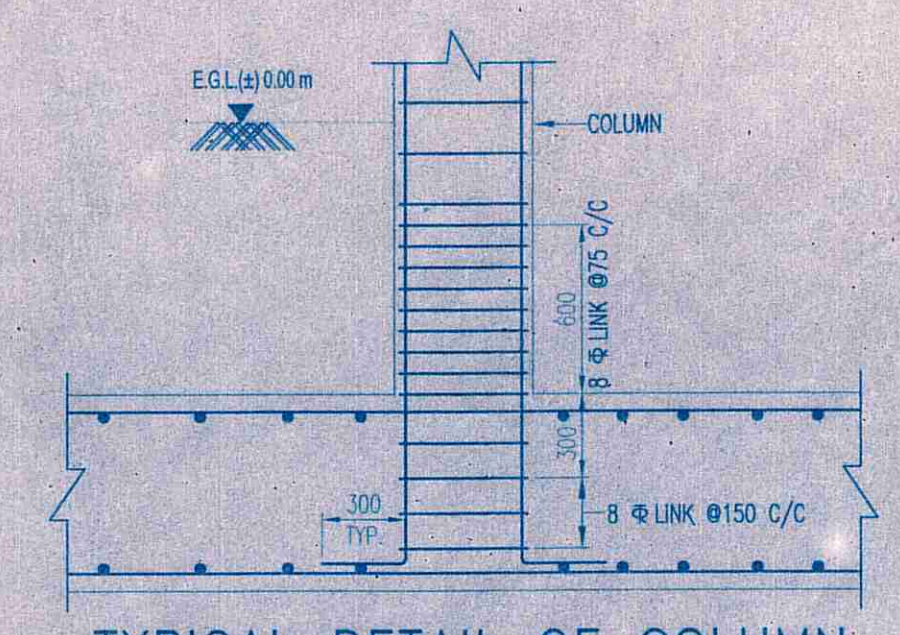
SECTION -K-K  
 SCALE - N.T.S.



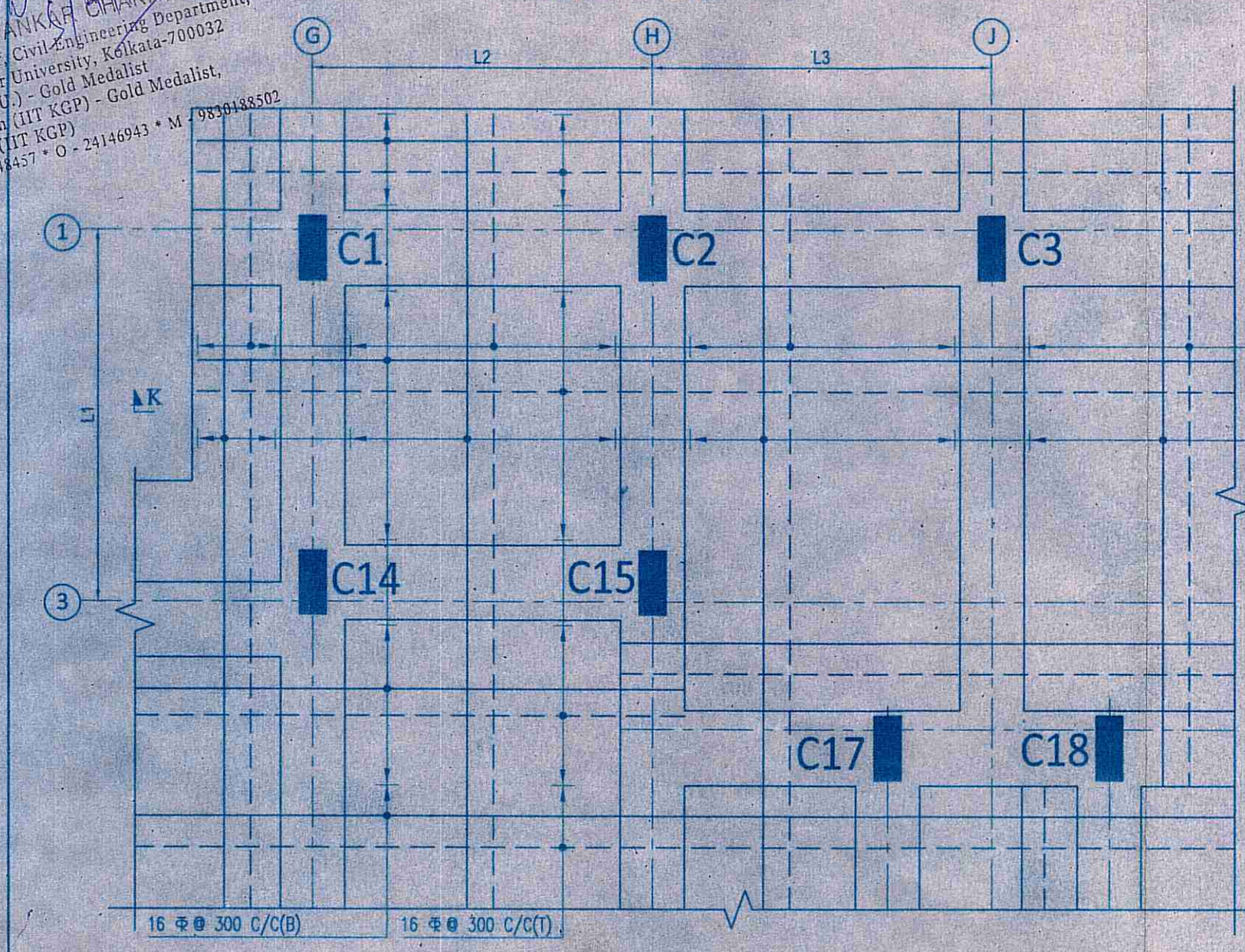
AT SUPPORT  
 TYPICAL CROSS SECTION OF RAFT BEAM



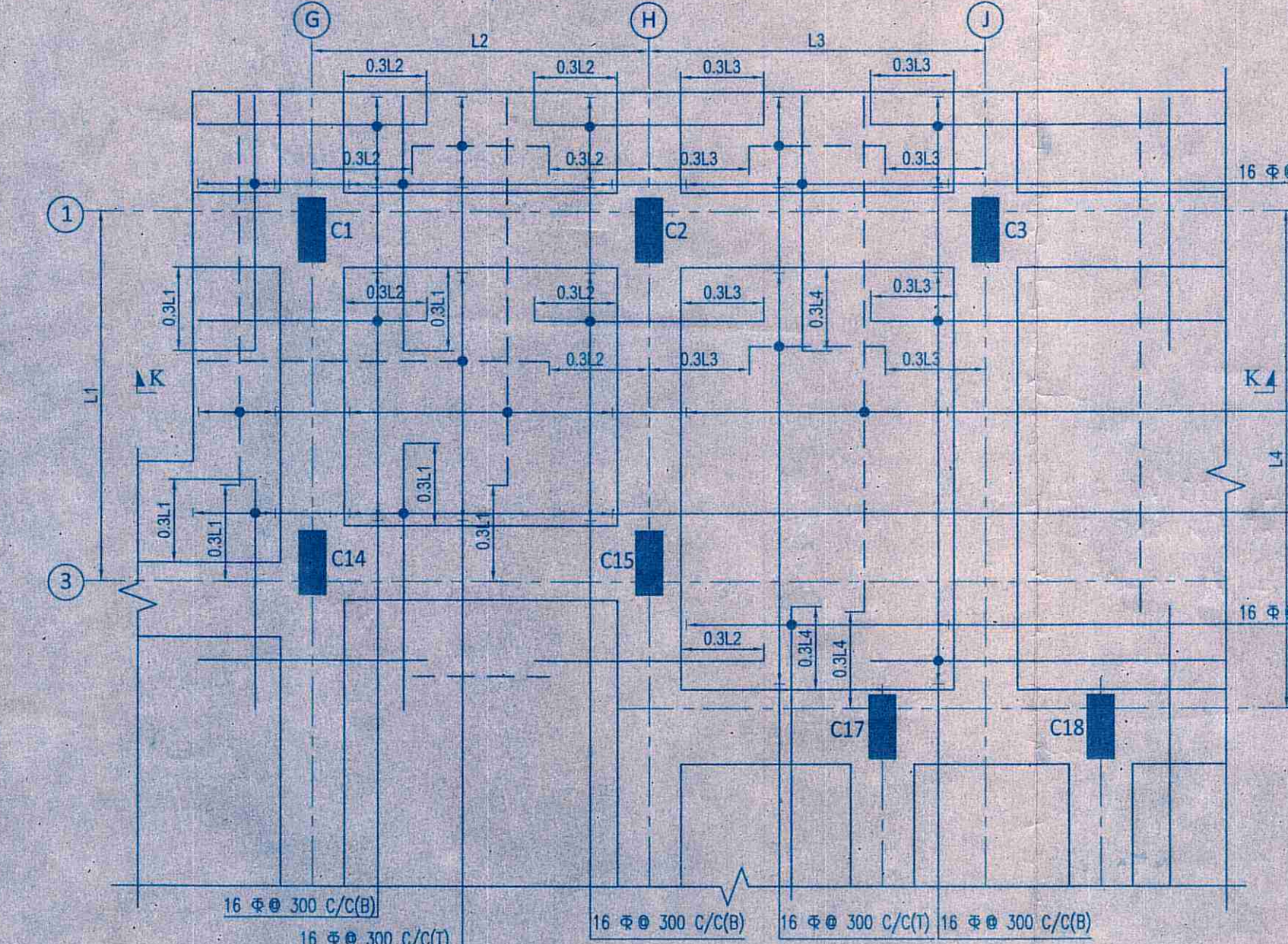
AT SPAN  
 TYPICAL CROSS SECTION OF RAFT BEAM



TYPICAL DETAIL OF COLUMN AND FOUNDATION JUNCTION  
 SCALE 1:25



REINFORCEMENT DETAILING OF FDN. SLAB (SHOWING ALTHROUGH REINFORCEMENT ONLY)



REINFORCEMENT DETAILING OF FDN. SLAB (SHOWING EXTRA REINFORCEMENT ONLY)

CHECKED & VERIFIED  
 DR. DIPANKAR CHAKRABORTY  
 Professor, Civil Engineering Department,  
 Jadavpur University, Kolkata-700032  
 B.E. (CIVIL) - Gold Medalist  
 M. Tech (IIT KGP) - Gold Medalist  
 Ph.D. (IIT KGP)  
 R-2344437 • Q - 2414693 • M - 9830448502

