

FLOOR BEAM SCHEDULE FOR TYPICAL FLOOR

TYPE OF BEAM	BEAM MKD.	BEAM SECTION	END SUPPORT		INTERIOR SUPPORT		END SPAN		INTERIOR SPAN		STIRRUPS
			TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
			2-16 Ø + 2-20 Ø + 2-16 Ø (D.L.)		2-16 Ø + 2-20 Ø + 3-20 Ø (D.L.)		2-16 Ø + 2-20 Ø + 3-20 Ø (D.L.)		2-16 Ø + 2-20 Ø + 3-20 Ø (D.L.)		
1.	B1	300 x 600									
2.	B2	300 x 600									
3.	B3	250 x 450									
4.	B4	250 x 500									
5.	B5	300 x 450									
6.	B6	300 x 500									
7.	B7	300 x 500									
8.	B8	300 x 450									
9.	B9	250 x 450									
10.	B10	300 x 600									
11.	B11	300 x 450									
12.	B12	300 x 450									
13.	B13	300 x 400									
14.	B14	300 x 500									
15.	B15	300 x 450									

GRADE BEAM SCHEDULE

TYPE OF BEAM	BEAM MKD.	BEAM SECTION	END SUPPORT		INTERIOR SUPPORT		END SPAN		INTERIOR SPAN		STIRRUPS
			TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
			4-20 Ø		4-16 Ø		4-16 Ø		4-16 Ø		
1.	GB1	300 x 600									
2.	GB2	300 x 500									
3.	GB3	300 x 500									
4.	GB4	300 x 500									
5.	GB5	300 x 500									
6.	GB6	300 x 500									
7.	GB7	300 x 500									

COLUMN SCHEDULE

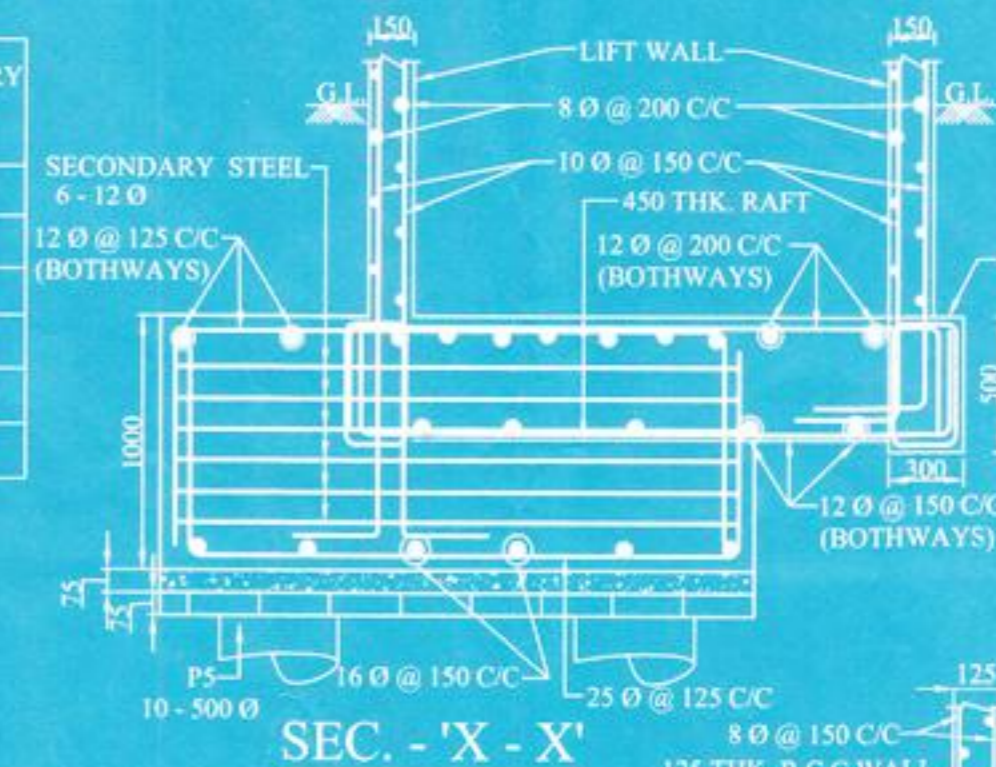
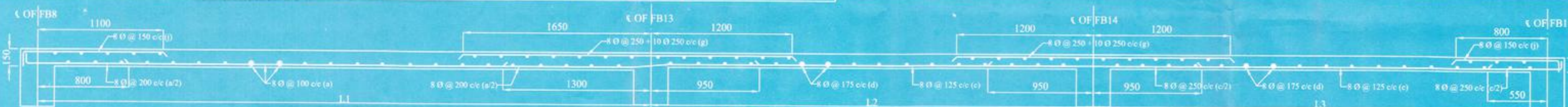
GROUP	MARKD.	COLUMN SECTION	COLUMN REINFORCEMENT				LINKS
			GROUND TO 2ND FL. LVL.	2ND FL. LVL. TO 4TH FL. LVL.	4TH FL. LVL. TO ST./L/M ROOF LVL.	LINKS	
			10-20 Ø	6-20 Ø + 4-16 Ø	10-16 Ø	8 Ø (2L) @ 200 C/C	
1.	C1,C3,C6,C7,C16,C18,C19	300 x 500					
2.	C9,C12,C14,C17	300 x 600					
3.	C2,C4,C11,C13	300 x 700					
4.	C5	350 x 500					
5.	C8	250 x 1100					
6.	C10	250 x 2625					
7.	C15	300 x 775					

SLAB SCHEDULE FOR TYP FLOOR

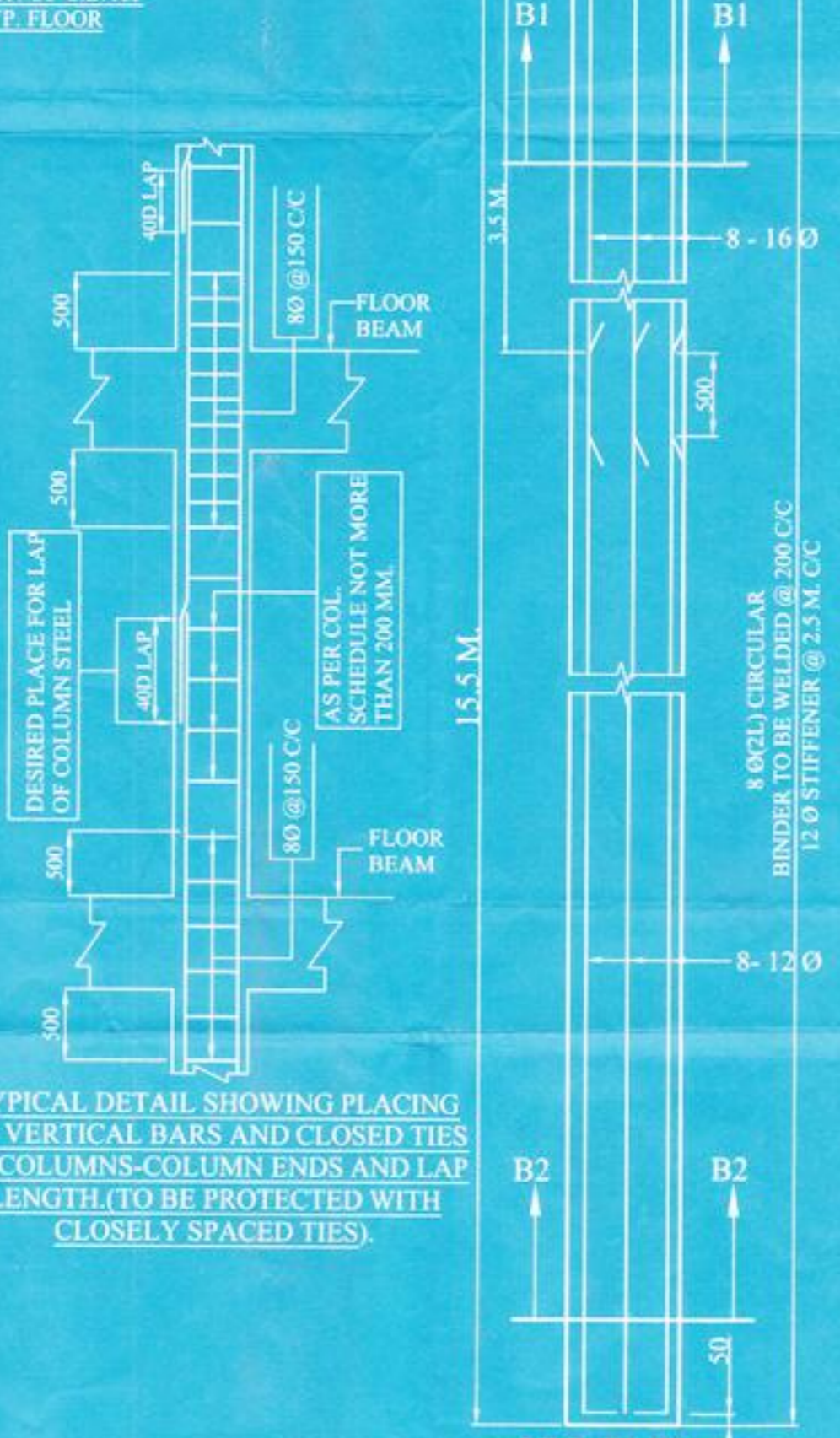
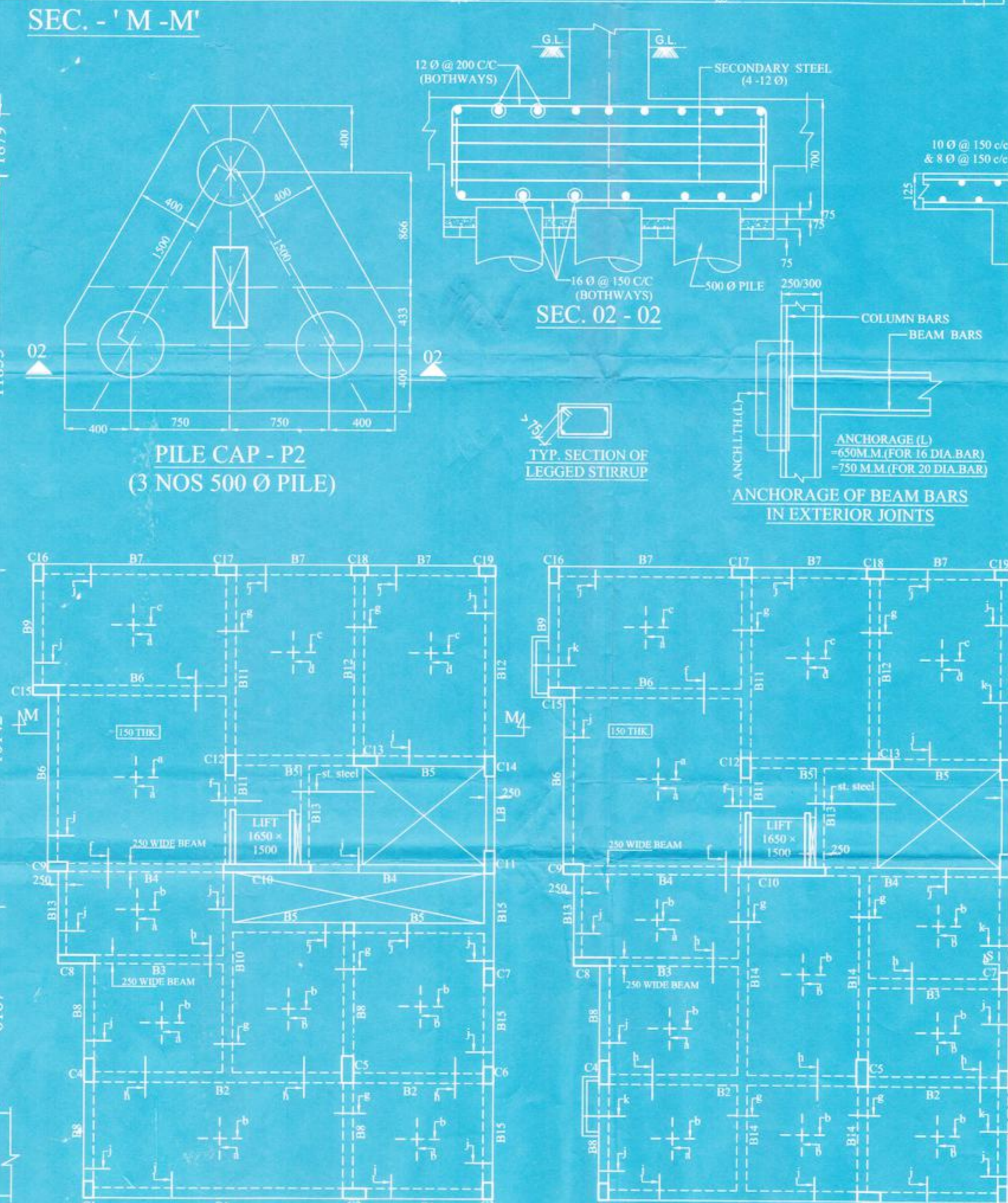
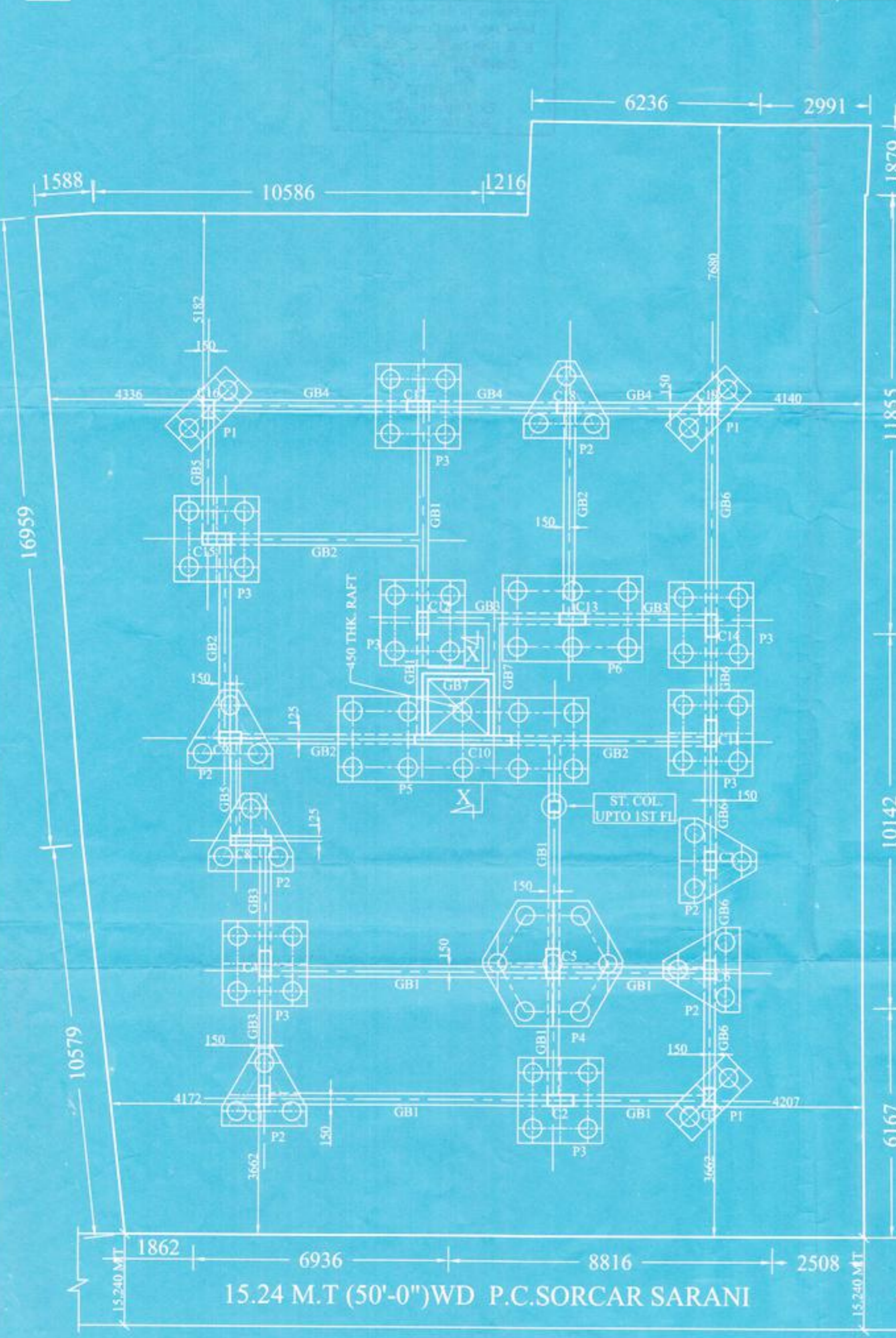
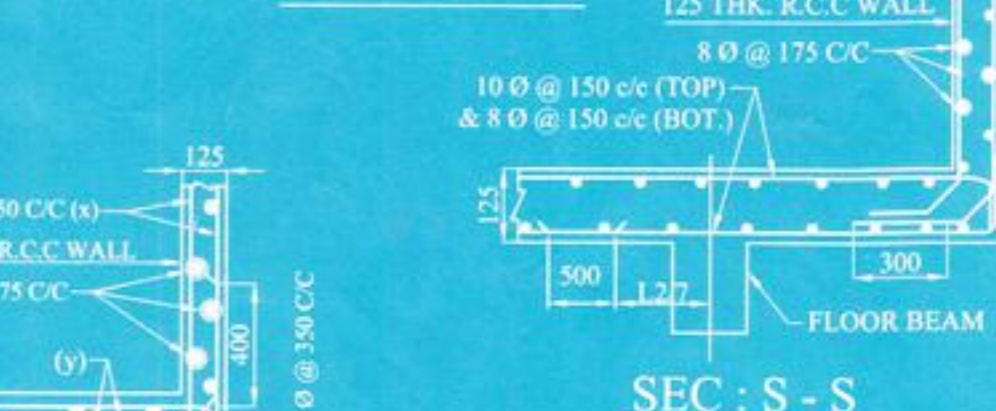
LEGEND	SLAB THICKNESS- 125 MM.	
	SLAB STEEL	SLAB STEEL
a	8 Ø @ 100 c/c (BOT.)	
b	8 Ø @ 150 c/c (BOT.)	
c	8 Ø @ 125 c/c (TOP)	
d	8 Ø @ 175 c/c (TOP)	
e	10 Ø @ 125 c/c (TOP)	
f	8 Ø @ 250 + 10 Ø 250 c/c (ALT. X-TOP)	
g	8 Ø @ 175 c/c (TOP)	
h	8 Ø @ 125 c/c (TOP)	
j	8 Ø @ 150 c/c (TOP)	
k	10 Ø @ 150 (TOP) & 8 Ø 150 c/c (BOT.)	
l	8 Ø @ 150 c/c (TOP)	
m	SHOWN AS TOP LAYER STEEL	
n	SHOWN AS BOTTOM LAYER STEEL	

SCHEDULE OF PILE CAP

SL NO.	PILE CAP MKD.	DEPTH OF PILE CAP (D.F.)	SHAFT LENGTH OF PILE	CUT-OFF LEVEL	NO. OF PILE	DIA OF PILE	C/C DISTANCE OF PILE	PILE CAP RE-INFORCEMENT (BOT.)		PILE CAP RE-INFORCEMENT (TOP)		SECONDARY STEEL
								ALONG X-X DIR.	ALONG Y-Y DIR.	ALONG X-X DIR.	ALONG Y-Y DIR.	
1.	P1	800	15.5 M	1.5 M	2	500	1500	8-16 Ø	12 Ø @ 125 C/C	12 Ø @ 175 C/C	12 Ø @ 175 C/C	4-12 Ø
2.	P2	700	15.5 M	1.5 M	3	500	1500	16 Ø @ 150 C/C	16 Ø @ 150 C/C	12 Ø @ 200 C/C	12 Ø @ 200 C/C	4-12 Ø
3.	P3	800	15.5 M	1.5 M	4	500	1500	16 Ø @ 125 C/C	16 Ø @ 125 C/C	12 Ø @ 150 C/C	12 Ø @ 150 C/C	4-12 Ø
4.	P4	800	15.5 M	1.5 M	7	500	1500	20 Ø @ 150 C/C	20 Ø @ 150 C/C	12 Ø @ 150 C/C	12 Ø @ 150 C/C	4-12 Ø
5.	P5	1000	15.5 M	1.5 M	10	500	1500	16 Ø @ 150 C/C	25 Ø @ 125 C/C	12 Ø @ 125 C/C	12 Ø @ 125 C/C	6-12 Ø
6.	P6	800	15.5 M	1.5 M	6	500	1500	20 Ø @ 150 C/C	16 Ø @ 150 C/C	12 Ø @ 150 C/C	12 Ø @ 150 C/C	4-12 Ø

**SPECIFICATIONS:**

- ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE SPECIFIED.
- GRADE OF CONCRETE : M-25
- GRADE OF STEEL : Fe 500
- COVER TO STEEL- 50 M.M.(PILE & PILE CAP) 40 M.M.(COLUMN) 25 M.M.(FLOOR BEAM), 20 M.M.(FLOOR SLAB), 25 M.M.(REIN. WALL).
- ALL FOUNDATION ARE LAID OVER 75 THK. P.C.C.(1:3:6) OVER 75 THK. B.F.S.
- AAC BRICKS ARE TO BE USED FOR THE ENTIRE BUILDING WITH DENSITY 0.65 T/M³.
- 25 Ø @ 750 C/C STEEL ARE USED AS SPACER BAR AT DOUBLE LAYER.
- STRENGTH OF CONCG. TO BE TESTED BY AVAILABLE DESTRUCTIVE AND NON DESTRUCTIVE TESTS AS PER I.S. SPECIFICATIONS.
- ALL CAST - IN - SITU BORED PILES SHOULD BE PROJECTED 75 M.M. IN THE PILE CAP.
- FOR PILES MINIMUM CEMENT CONTENT = 400 KG./CU.M., SLUMP NOT LESS THAN 125 M.M.
- CAST - IN - SITU BORED PILES BY AUGER METHOD TO BE DONE BY STABILISING THE SIDES BY USING BENTONITE SLURRY OR BY CASING AS PER IS:2911(PART 1/SEC 2), IF NEEDED
- THE SAFE VERTICAL LOAD CARRYING CAPACITY AS MENTIONED IN THE SOIL TEST REPORT IS TO BE CONFIRMED BY ROUTINE LOAD TEST FOR AT LEAST ONE TRIAL PILE.
- LOW STRAIN NON DESTRUCTIVE PILE INTEGRITY TEST ARE TO BE DONE DURING THE EARLY, INTERMEDIATE AND LAST STAGE OF PILING JOB FOR SUCH BORED PILES.



THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER B.C.C. OF INDIA AND CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT. SOIL TESTING HAS BEEN DONE BY GEOTECH ENGINEERS PVT. LTD. 6A MILAN PARK, KOLKATA-700084. THE RECOMMENDATIONS OF SOIL TEST REPORT (GT / SP / 29 / 2016-2017) UNDER SIGNED BY M. ALOK ROY WILL BE CONSIDERED DURING STRUCTURAL CALCULATION.

Sankar Das
SIGNATURE OF STRUCTURAL ENGINEER
SANKAR DAS (NO. - E.S.E. - 1/12)

Anjan Ukil
ANJAN UKIL
Architect
REG. NO. GA/94/16721
SIGNATURE OF ARCHITECT.

Palash Mazumder, Lalit Baid
PALASH MAZUMDER (CONSTITUTED ATTORNEY)
LALIT BAID (CONSTITUTED ATTORNEY)
SIGNATURE OF OWNER

PROJECT: SUBMISSION OF PLAN U/R 26(2a & 2b) OF K.M.C. BUILDING 3A, P.C.SORCAR SARANI, RULES 2009 FOR PREM. NO. - P.S- GARIAHAT KOL- 700 019, WARD- 68, BOROUGH-VIII. SANCTIONED VIDE B.P. NO. 2016080059, DATE: 29.11.2016 (BEFORE CONSTRUCTION)		
JOB NO.	C/2360	DATE: 20.09.2017
DRG. NO.	01	
SCALE:-	1: 100 & 1:25 (UNLESS OTHERWISE SPECIFIED)	
TITLE:	STRUCTURAL DETAIL	
DRAWN BY:	PCM	
STRUCTURAL CONSULTANT TETRAGON ENGINEERING CONSULTANCY (P) LTD, 21 CORNFIELD ROAD, KOLKATA - 700019. PHONE NO 033 4072 8600. E-mail : teclpi.kolkata@gmail.com		

PARTY'S COPY

Structural plan and design calculation as submitted by the structural engineer have been kept with B.P. No. **2016.S.C.C.S.5**.....Date **29/11/2016** for record of the Kolkata Municipal Corporation without verification No. deviation from the submitted structural plan should be made at the time of erection without submitting fresh structural plan along with design calculation and stability certificate in the prescribed form, necessary steps should be taken for the safety of the adjoining premises public and private properties and safety of human life during construction.

[Signature]
EXECUTIVE ENGINEER/ASSTT. ENGINEER
BOROUGH NO. **VII**

This Plan is To Be Treated As Part And Parcel And Contiguous To B. S. Plan No. **2116.S.C.C.S.5** Dated **29/11/2016**
[Signature]
Ex. Engineer (B)
Bor. No. :- VIII

