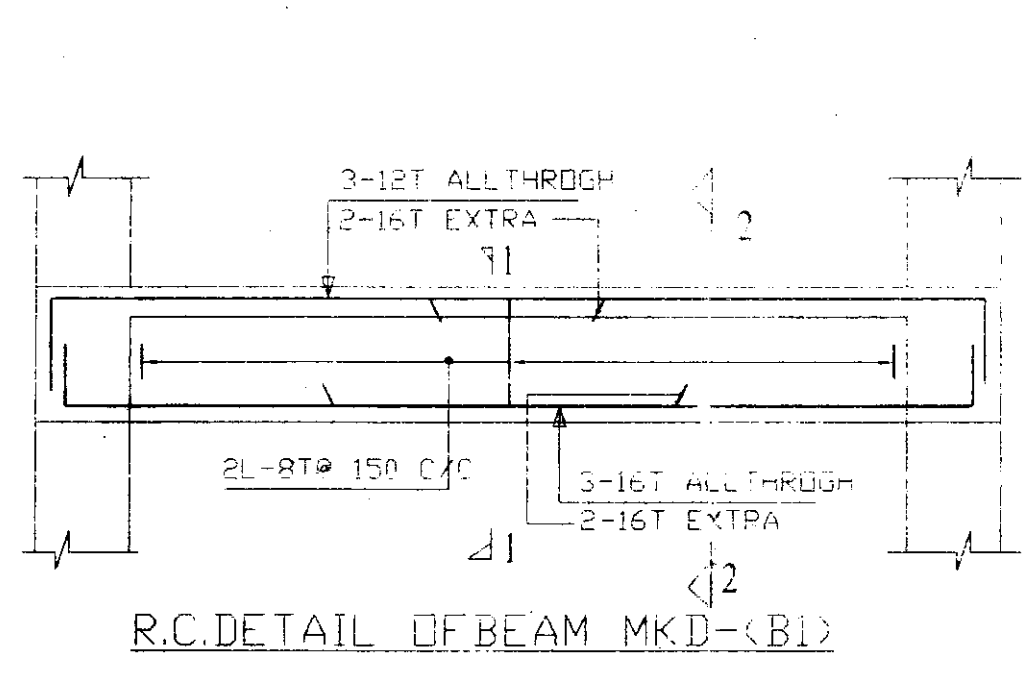
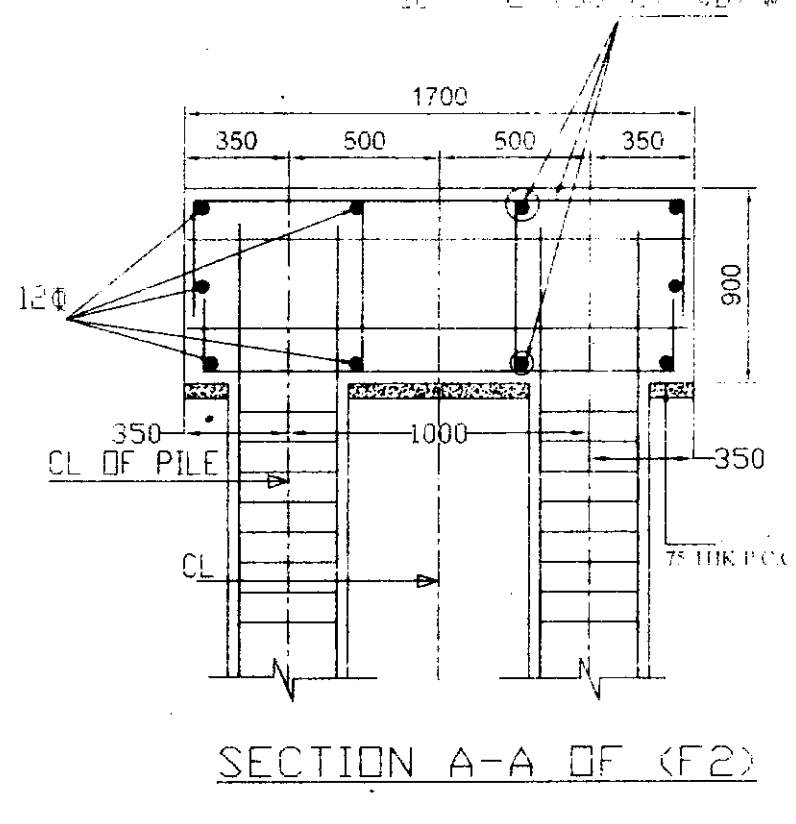


DET. OF PILE CAP & LIFT WELL & COMBINED FOUND. MKD. F2

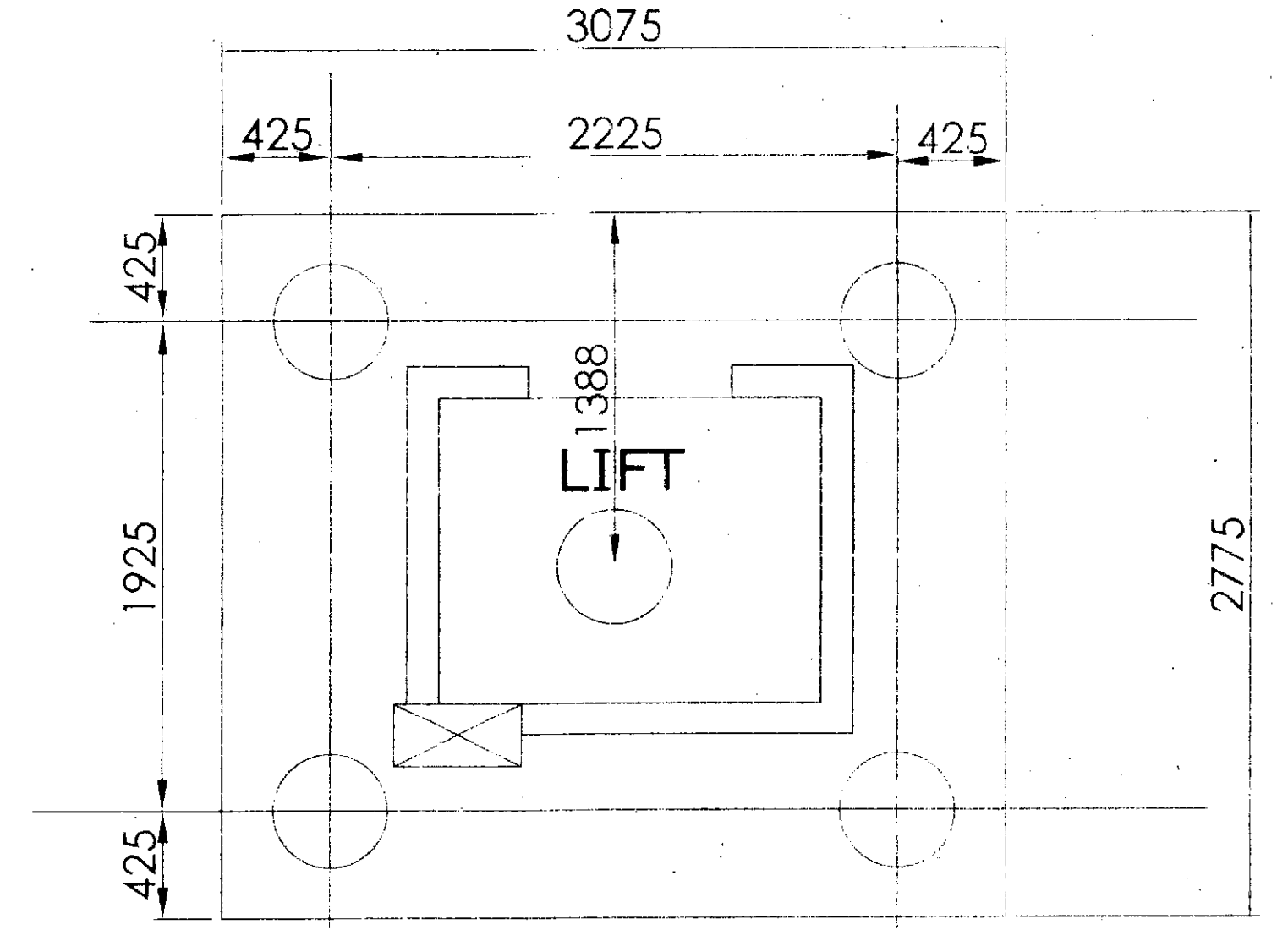


R.C. DETAIL OF BEAM MKD. (B1)

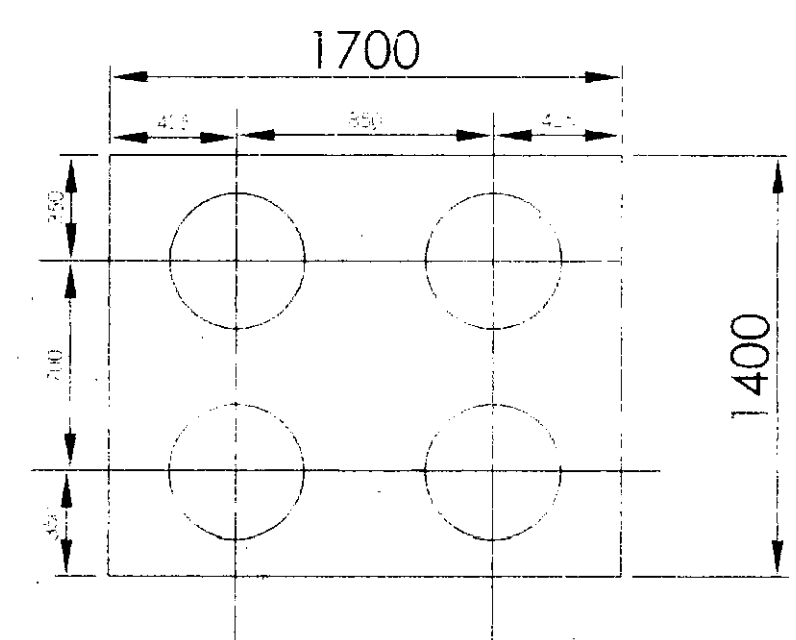


SECTION A-A OF (F2)

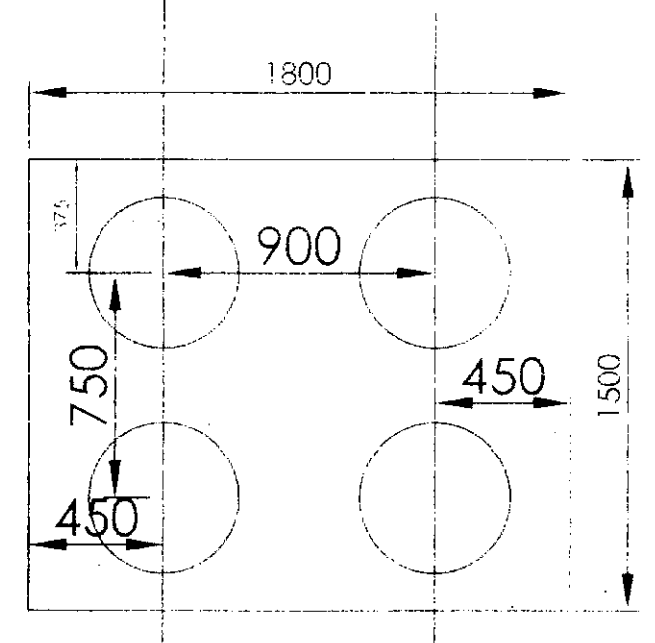
BEAM MKD	SECTION	REINF. (SUPPORT)		REINF. (SPAN)		STIRRUP
		TOP	BOTTOM	TOP	BOTTOM	
B1	250X350	3-12	3-16	3-12	5-16	2L-8T@150 c/c
B2	250X300	2-12	2-16	2-12	4-16	2L-8T@150 c/c
B3	250X400	3-16	3-16	3-16	5-16	2L-8T@150 c/c
B4	250X450	3-16	3-16	3-16	6-16	2L-8T@150 c/c
B1C	250X350	5-16	3-16	5-16	3-16	2L-8T@150 c/c
B2C	250X450	5-16	3-16	5-16	3-16	2L-8T@125 c/c
ALL THE BEAMS	250X350	5-16	3-16	3-16	5-16	2L-8T@150 c/c



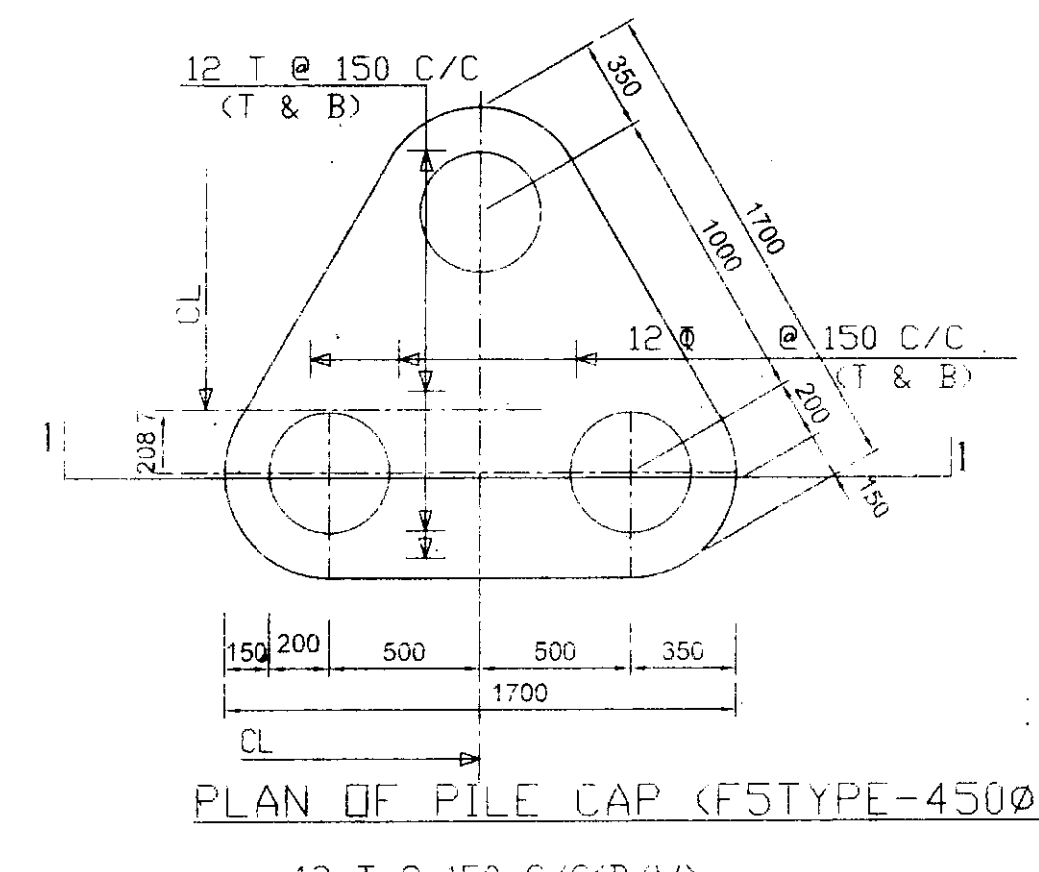
PLAN OF PILE CAP (F3)



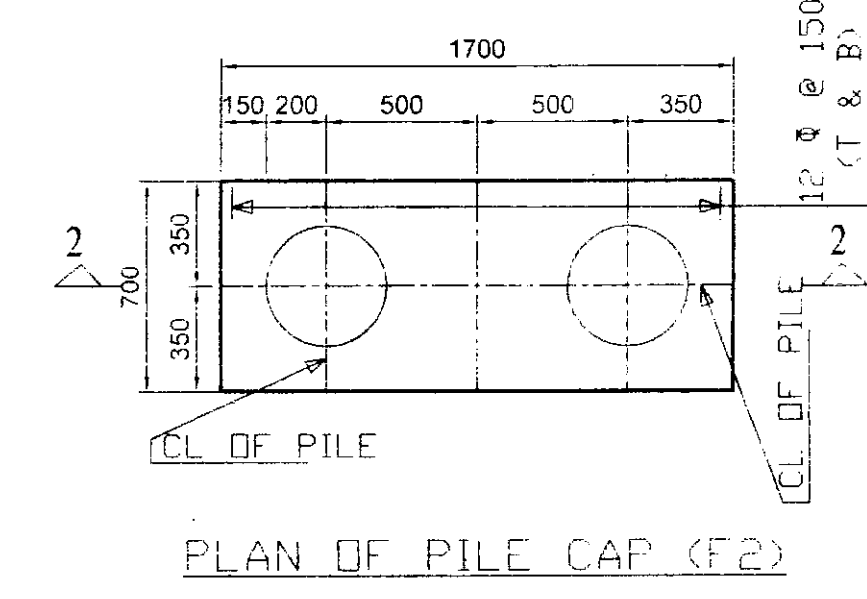
PLAN OF PILE CAP (F3)



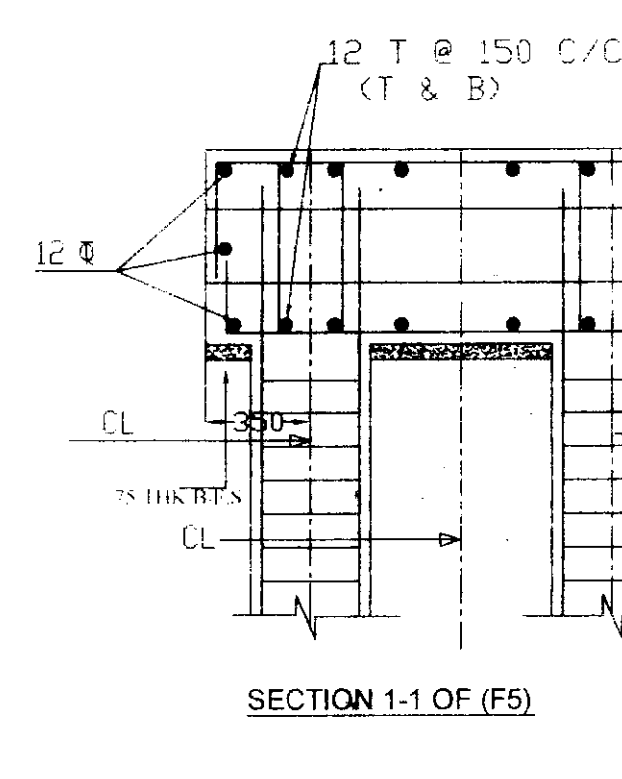
PLAN OF PILE CAP (F1)



PLAN OF PILE CAP (F5 TYPE-4500)



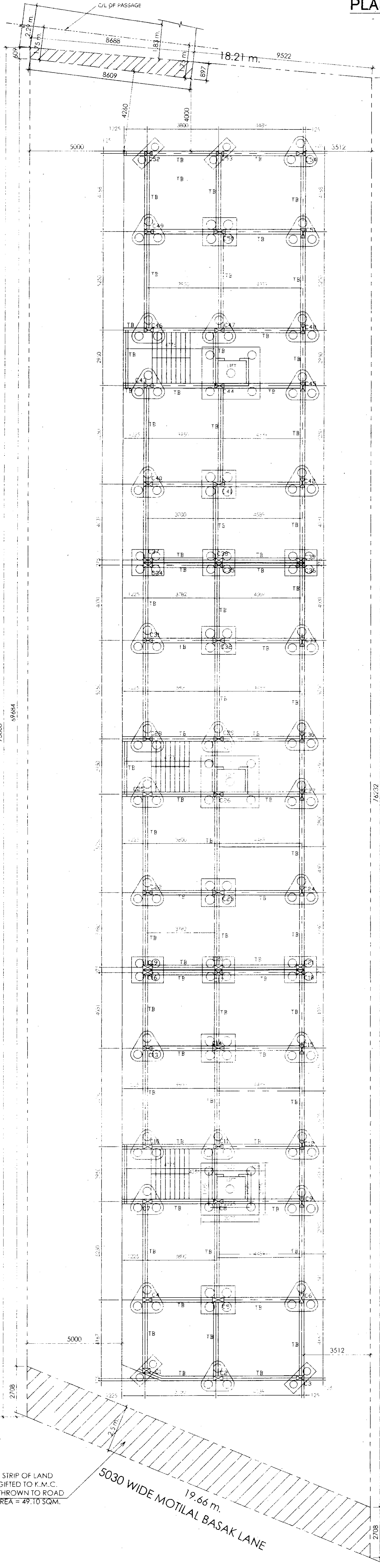
PLAN OF PILE CAP (F2)



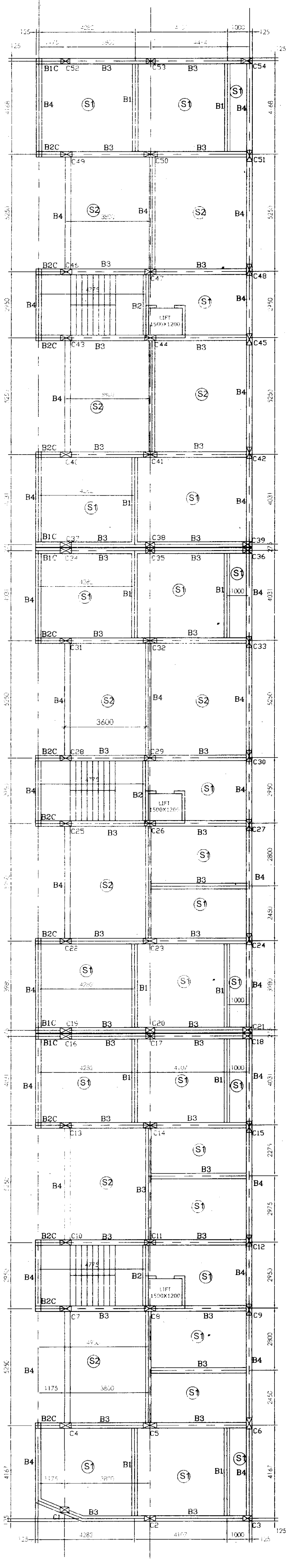
SECTION 1-1 OF (F5)

SLAB	THICKNESS	REINFORCEMENT
5TH SLAB	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
4TH FL	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
4TH SLAB	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
3RD FL	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
3RD SLAB	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
2ND FL	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
2ND SLAB	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
1ST FL	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
1ST SLAB	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)
GROUND FL	110MM	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)

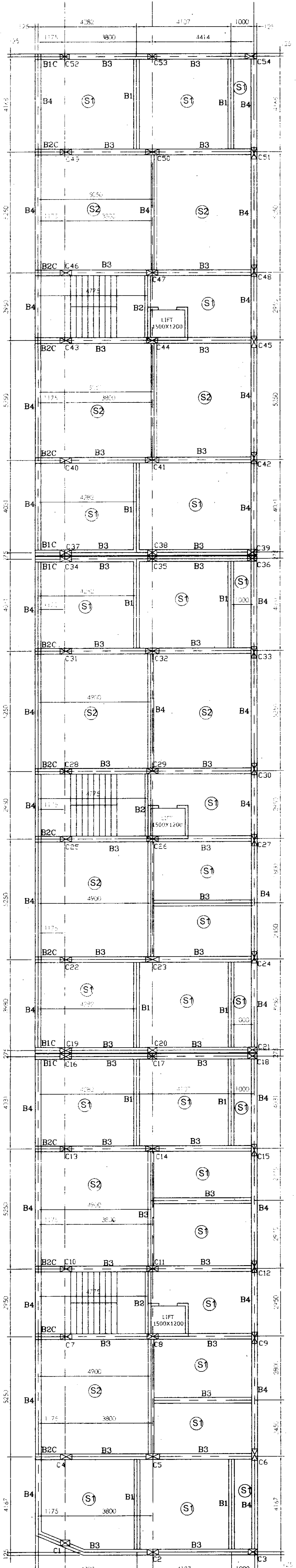
DETAIL OF R.C.C. PILE (LENGTH - 20 M)



GROUND TIE & FOUNDATION LAY OUT



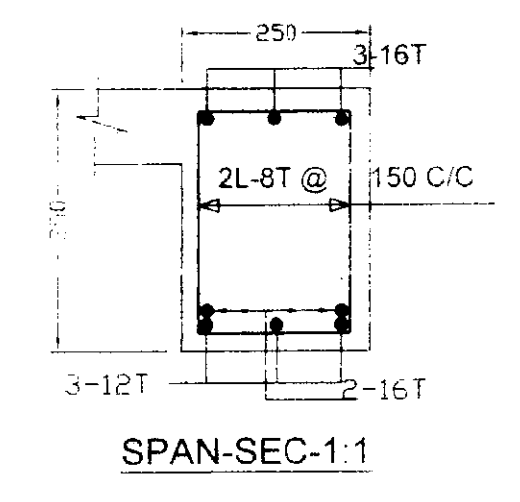
SLAB & BEAM LAYOUT PLAN (1ST. FLOOR ONLY)



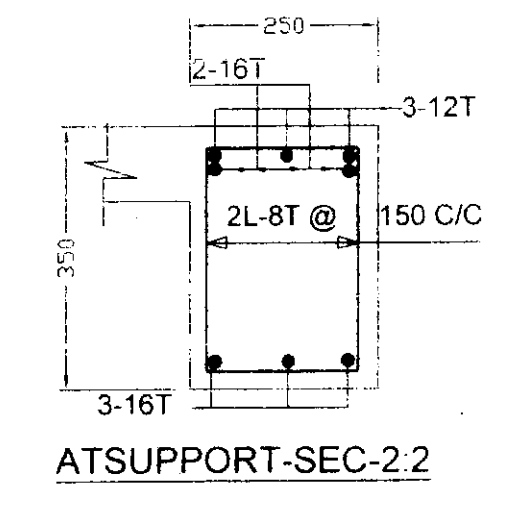
SLAB & BEAM LAYOUT PLAN (2ND. TO 4TH. FLOOR)

SLAB MKD	THICKNESS	REINFORCEMENT	
		MAIN REINF.	DISTRIBUTION
S1	110MM	8 T @ 150 c/c	8 T 150 c/c
S2	150MM	8 T @ 110 c/c	8 T 110 c/c

PROVIDE 8T 150 C/C AT EDGES AS EXTRA TOP



SPAN-SEC-1.1



ATSUPPORT-SEC-2.2

PILE NO.	COL. MKD	SIZE OF FOOTING	NO. OF PILES	REINFORCEMENT			
				TOP LAYER	BOTTOM LAYER	LONG SPAN	SHORT SPAN
F1	C5,C14,C23,C24	1000x1000	4	12T @ 150C/C	12T @ 125 C/C	12T @ 150C/C	12T @ 125C/C
F2	C1,C2,C3,C4	1000x1000	2	12T @ 150C/C	12T @ 150C/C	12T @ 150C/C	12T @ 150C/C
F3	C5,C14,C23,C24	1000x1000	5	12T @ 150C/C	12T @ 150 C/C	12T @ 150C/C	12T @ 150C/C
F4	C1,C2,C3,C4	1000x1000	4	12T @ 150C/C	12T @ 150 C/C	12T @ 150C/C	12T @ 150C/C
F5	ALL OTHERS	AS PER DWG	3	12T @ 150C/C	12T @ 150 C/C	12T @ 150C/C	12T @ 150C/C

COL. MKD	REINFORCEMENT	STIRRUP	DIA. OF PILE
C1,C2,C3,C4	6-12 T	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)	4000
C5,C14,C23,C24	4-16 T + 2-12 T	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)	4500
C1,C2,C3,C4	4-16 T + 2-12 T	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)	4500
ALL OTHERS	4-16 T + 2-12 T	8 T @ 100 C/C (END), 8 T @ 200 C/C (MID)	4500

COLUMN MKD	SECTION	REINFORCEMENT				DIA.
		GROUND TO 2ND SLAB	2ND TO 4TH SLAB	4TH TO TOP SLAB	TO TOP SLAB	
C5,C14,C23,C24	250x350	10-20T	8-16T	8-16T	8-16T	2L-8T@150 c/c
C1,C2,C3,C4	250x300	8-16T	8-16T	8-16T	8-16T	2L-8T@150 c/c
ALL OTHERS	250x350	10-20T	8-16T	8-16T	8-16T	2L-8T@150 c/c

NOTES & SPECIFICATIONS

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- GRADE OF CONCRETE M20 AND GRADE OF STEEL FE415
- CENTER LINE GIVEN HERE ARE BEAM CL ONLY
- IN CASE OF ANY DISCREPANCY IN DWG REFER TO ARCHITECT
- 
- COLUMN - CLEAR COVER - 40MM
- BEAM - 1) TOP - 25MM  
2) BOTTOM - 25MM SIDE - 15MM
- SLAB - 1) BOTTOM - 15MM 2) SIDE - 15MM
- EXTRA TOP REINFORCEMENT - 0.25% C/DISTANCE OF DISCONT SUPT
- EXTRA TOP REINFORCEMENT - 0.25% C/DISTANCE OF CONT. SUPT
- EXTRA BOTTOM REINFORCEMENT - 0.10% C/DISTANCE OF DISCONT SUPT
- EXTRA BOTTOM REINFORCEMENT - 0.15% C/DISTANCE OF CONT. SUPT
- SLAB:
  - 1) TOP CURTAILMENT OF BAR - 0.10% C/DISTANCE OF CONTINUOUS EDGE
  - 2) TOP CURTAILMENT OF BAR - 0.15% C/DISTANCE OF CONTINUOUS EDGE
  - 3) BOTTOM CURTAILMENT OF BAR - 0.15% C/DISTANCE OF DISCONT. EDGE
  - 4) BOTTOM CURTAILMENT OF BAR - 0.25% C/DISTANCE OF CONT. EDGE
  - 5) EXTRA TOP CURTAILMENT OF BAR - 0.30% C/DISTANCE OF CONT. EDGE
- BOND LAP LENGTH FOR REINFORCEMENT BAR - FOUNDATION DEPTH (NO. LD) BE MAINTAINED 150MM FROM ORIGINAL SOIL

STRUCTURAL CALCULATIONS DONE CONSIDERING MARBLE FLOORING

DECLARATION OF STRUCTURAL ENGINEER

CERTIFIED THAT THE STRUCTURAL DESIGN AND DRAWINGS OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE ALL RESPECT

S. B. Bhattacharjee  
B.E. (Civil)  
ESE - 116/11

SIGN. OF STRUCTURAL ENGINEER

DECLARATION OF L.B.S.

IT IS CERTIFIED THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF K.M.C. BUILDING RULES, 2009 AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF ABUTTING ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE SITE AND AS INFORMED BY THE OWNER NOT A TANK OR FILLED UP TANK.

SABAL BHATTACHARJEE  
B.E. (CIVIL) & M.A.C.  
492, 1ST, SAILING ROAD, KOLKATA-700054

SIGN. OF L.B.S.

Shailendra Singh  
DIRECTOR

SIGN. OF OWNER

STRUCTURAL PLAN OF PROPOSED G+IV STORED RESIDENTIAL BUILDING AT PREMISES NO. - 22B, MATILAL BASAK LANE, WARD - 31, BOROUGH - III, KOLKATA - 700054, P.S. - PHULBAGAN, UNDER K.M.C.

