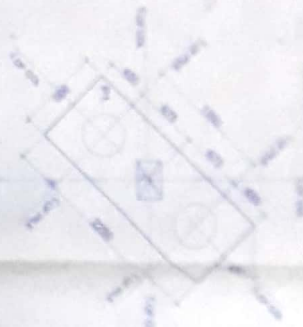




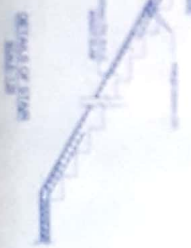
NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	CONCRETE			
2	STEEL			
3	FORMWORK			
4	LABOUR			
5	...			

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	...			
2	...			
3	...			
4	...			
5	...			

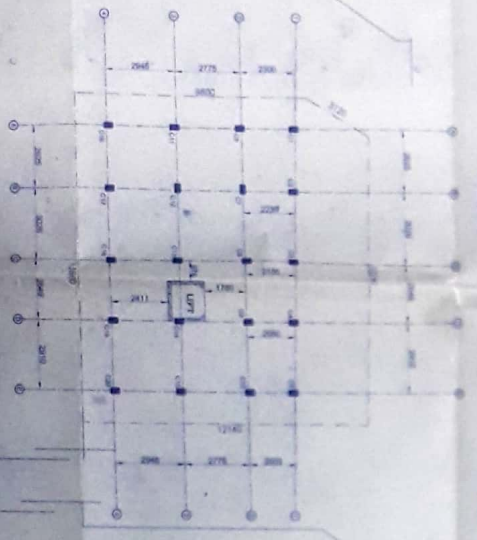
NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	...			
2	...			
3	...			
4	...			
5	...			



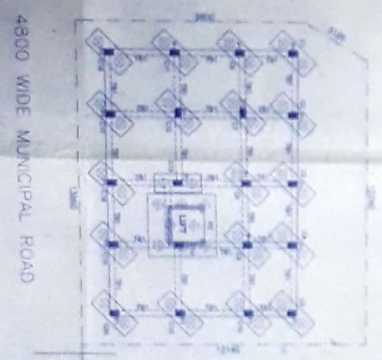
PILE DETAILS (150 DIA) OF P1
SCALE: 1:20



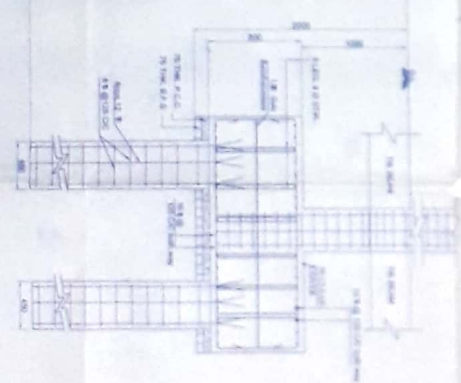
SECTION OF BEAM AT JOINT



CENTRE LINE LAY-OUT PLAN
SCALE: 1:50



R.C.C. PILE FOUNDATION
SCALE: 1:50



SECTION OF PILE DETAILS (P1)
SCALE: 1:20



DATE: 18/07/2018

SCALE: 1:50

REVISION

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. THE FOUNDATION SHALL BE CONSTRUCTED AS PER THE DETAILS SHOWN.
3. THE PILES SHALL BE DRIVEN TO THE REQUIRED DEPTH AND TESTED AS PER THE SPECIFICATIONS.
4. THE CONCRETE SHALL BE OF GRADE M20 AND THE STEEL SHALL BE OF GRADE Fe 415.
5. THE FORMWORK SHALL BE OF SUFFICIENT STRENGTH TO WITHSTAND THE WEIGHT OF THE CONCRETE AND THE WIND LOADS.
6. THE CURING OF THE CONCRETE SHALL BE DONE AS PER THE SPECIFICATIONS.
7. THE FINISHES SHALL BE AS PER THE ARCHITECTURAL DRAWINGS.
8. THE WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
10. THE CONTRACTOR SHALL MAINTAIN A DETAILED RECORD OF ALL WORK DONE AND MATERIALS USED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL WORKERS AND THE PUBLIC.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ENVIRONMENT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT PROPERTIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT ROADS AND HIGHWAYS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT UTILITIES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT STRUCTURES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT LANDS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT PLANTS AND TREES.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT ANIMALS.

REVISIONS:

NO.	DESCRIPTION	DATE
1
2
3
4
5

APPROVALS:

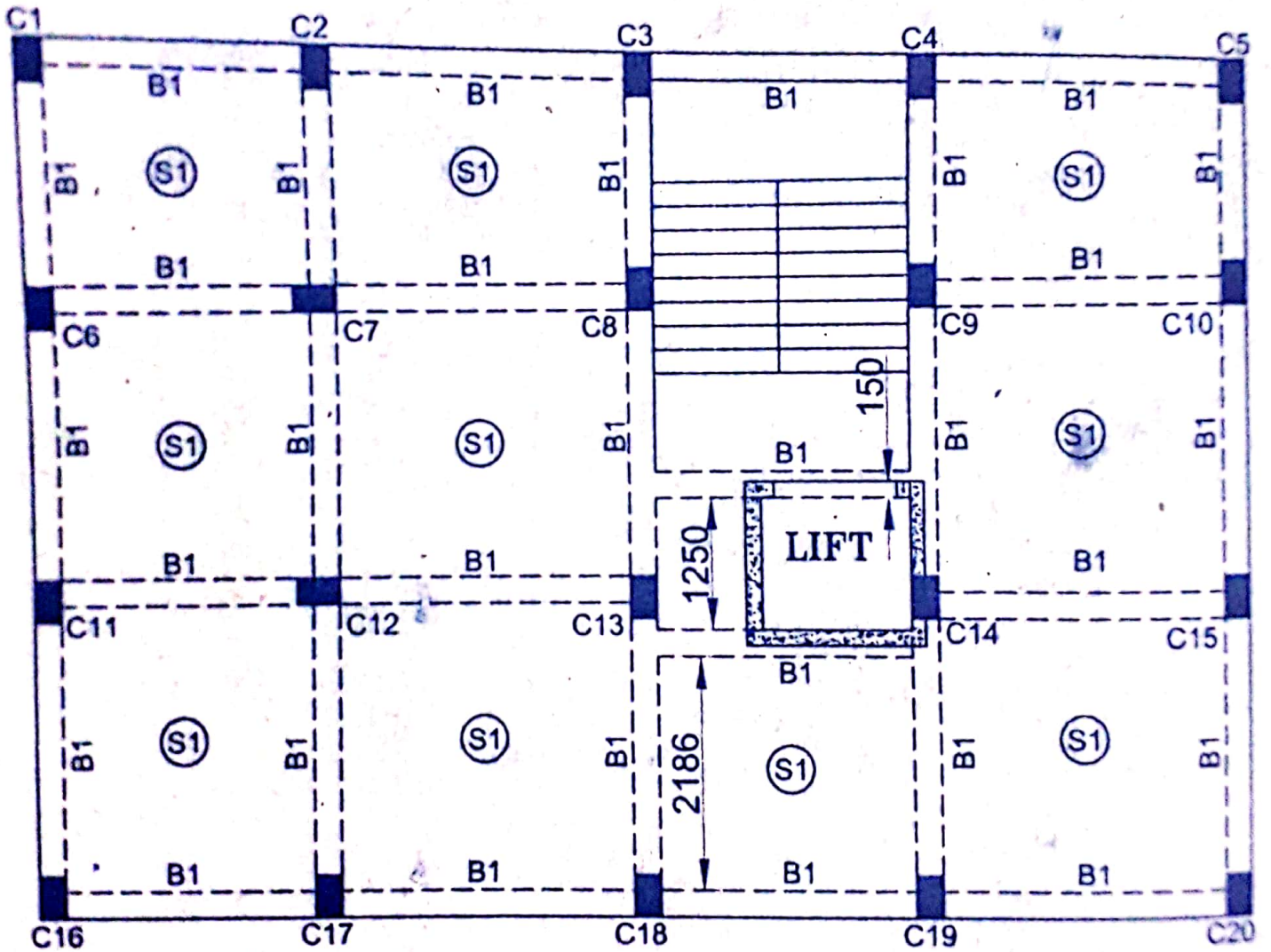
DESIGNED BY: [Signature]

CHECKED BY: [Signature]

DATE: 18/07/2018

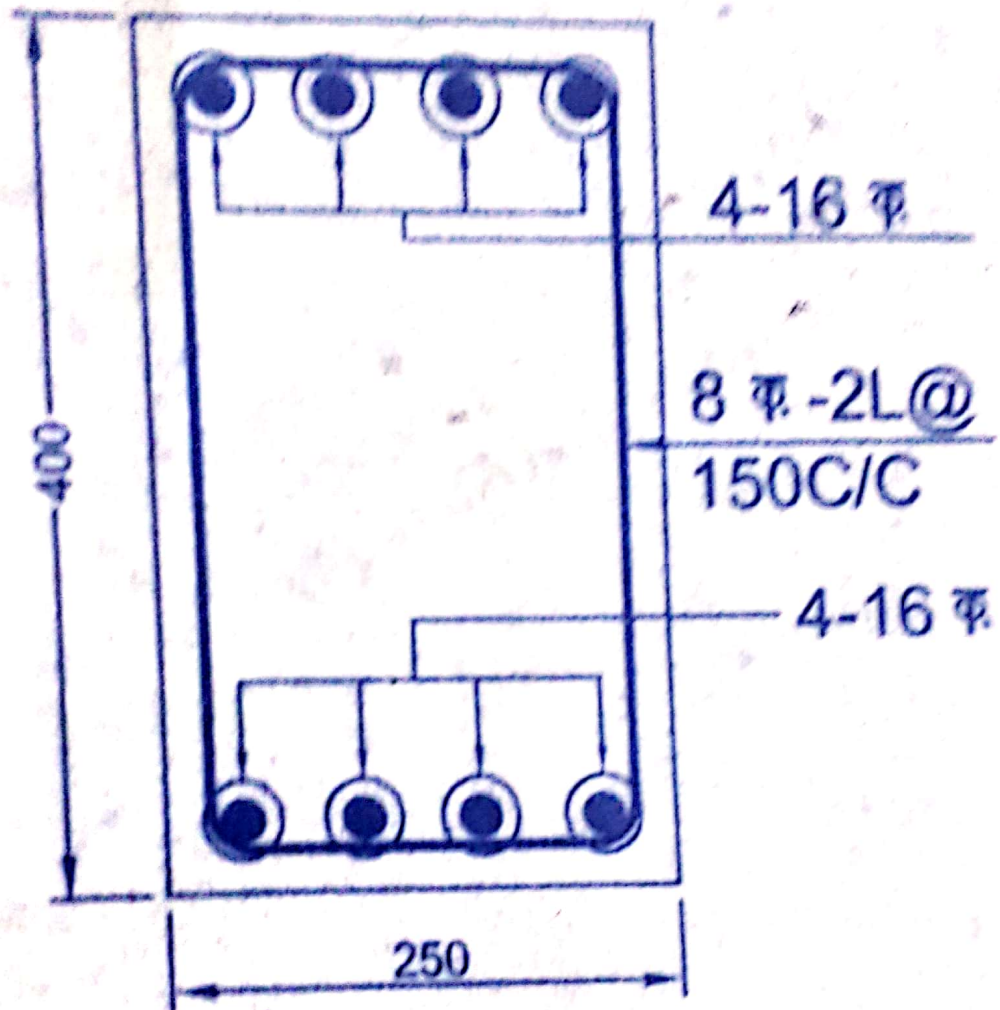
SCALE: 1:50

REVISION



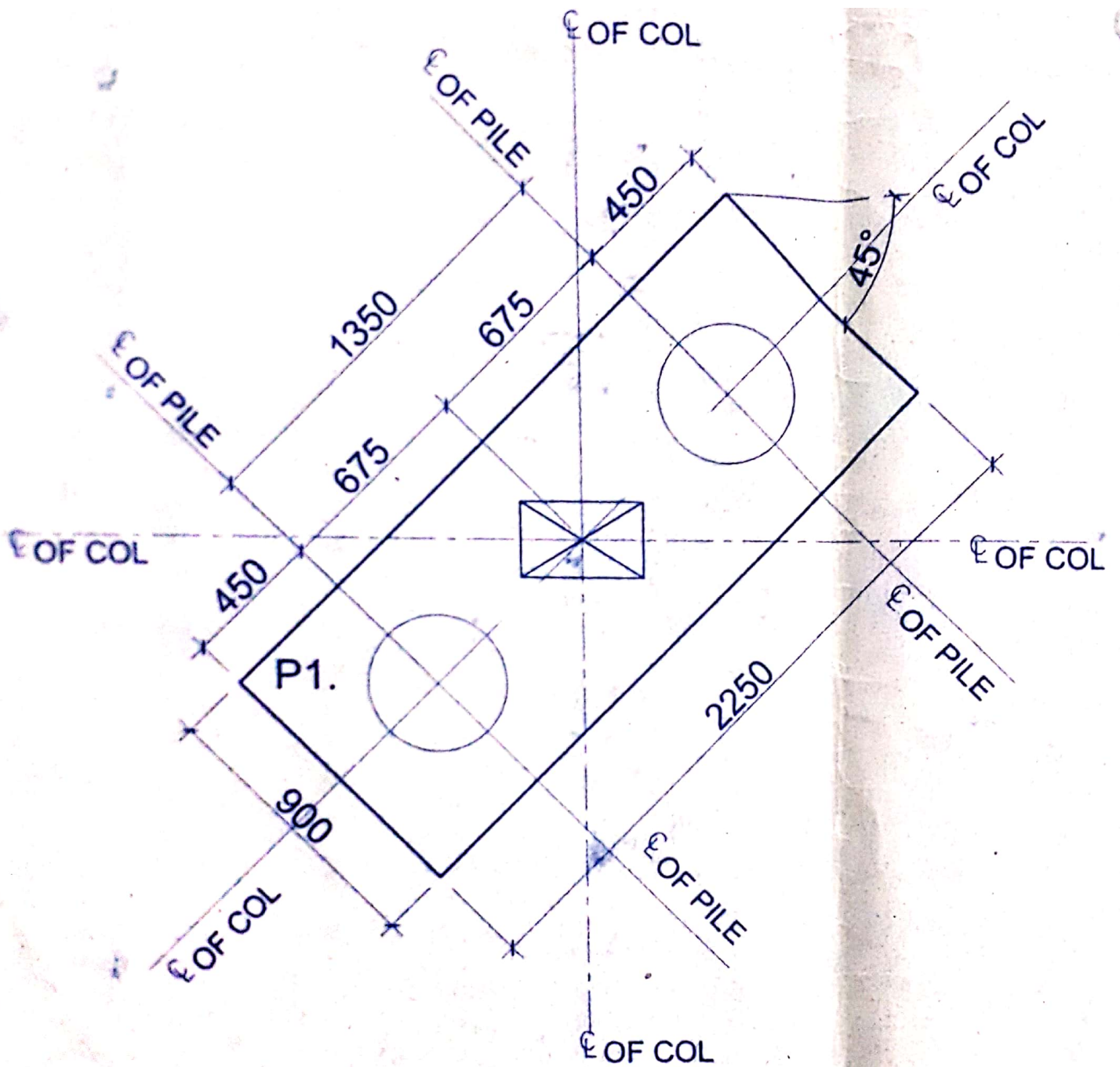
TYP.FLOOR BEAM PLAN.

SCALE :- 1:100



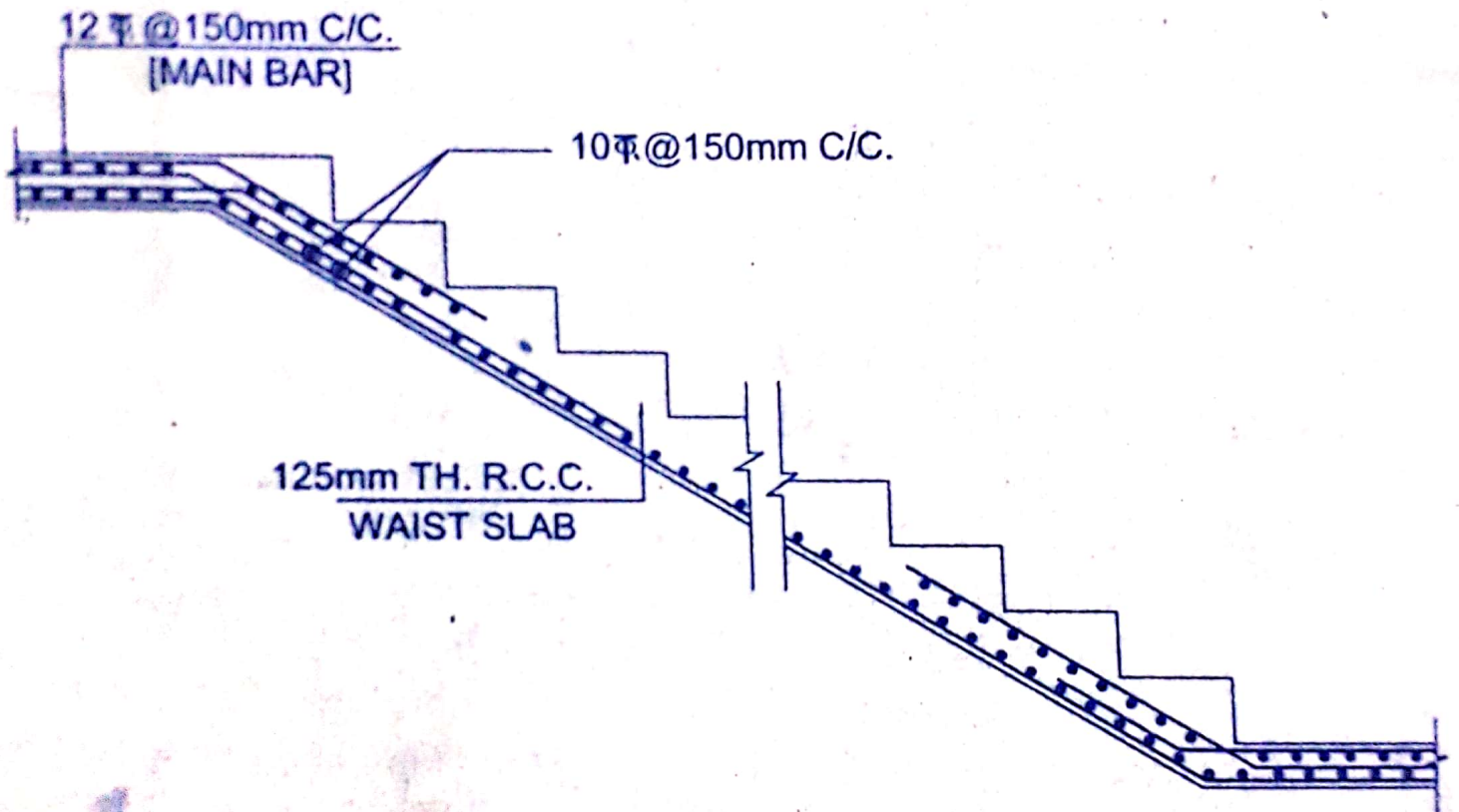
SECTION OF
TIE BEAM-TB1
SCALE-1:10

SANCTIONED



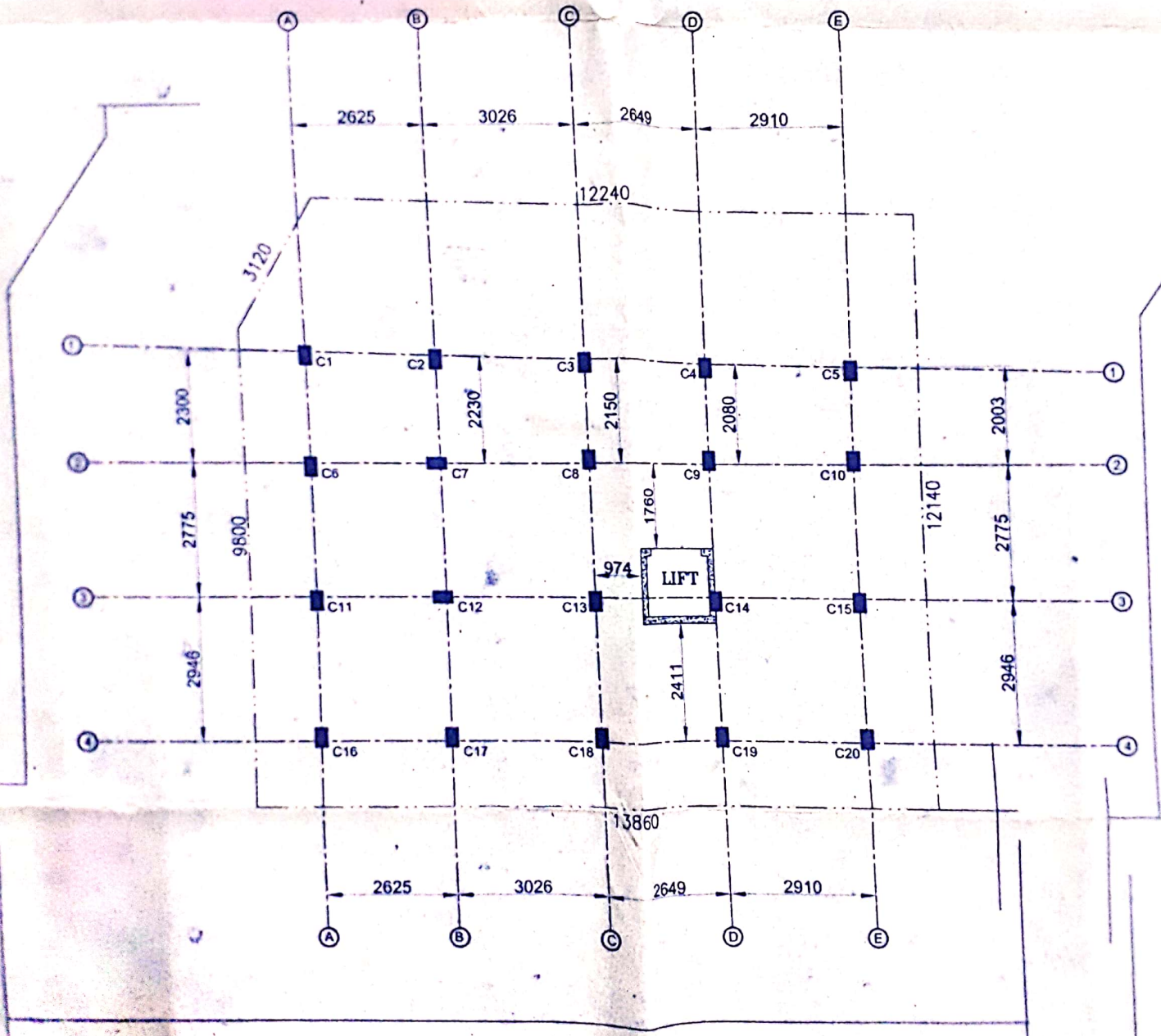
PILE DETAILS [450 DIA] OF P1

SCALE - 1:25



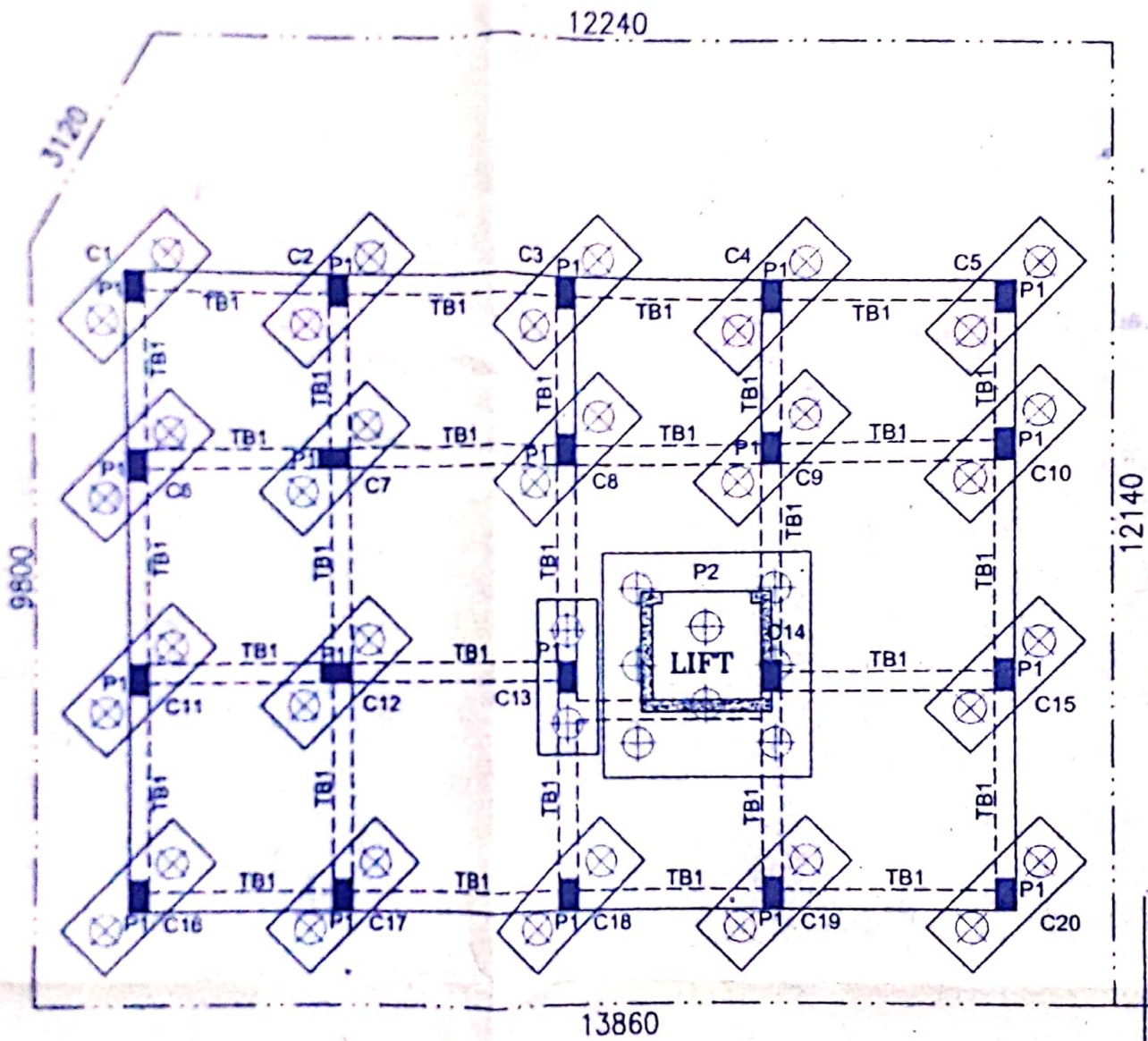
DETAILS OF STAIR

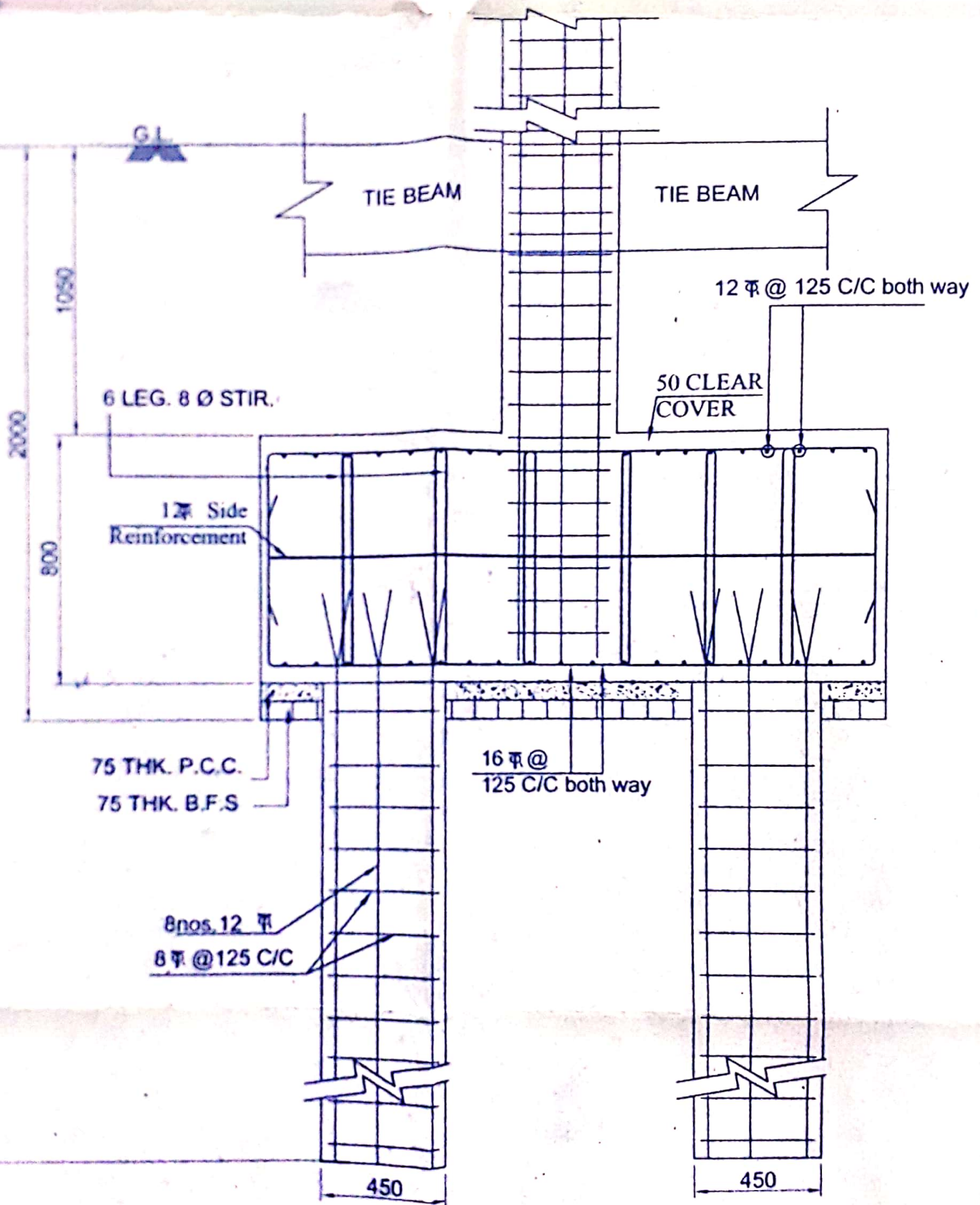
SCALE- 1:25



CENTRE LINE LAY-OUT PLAN.

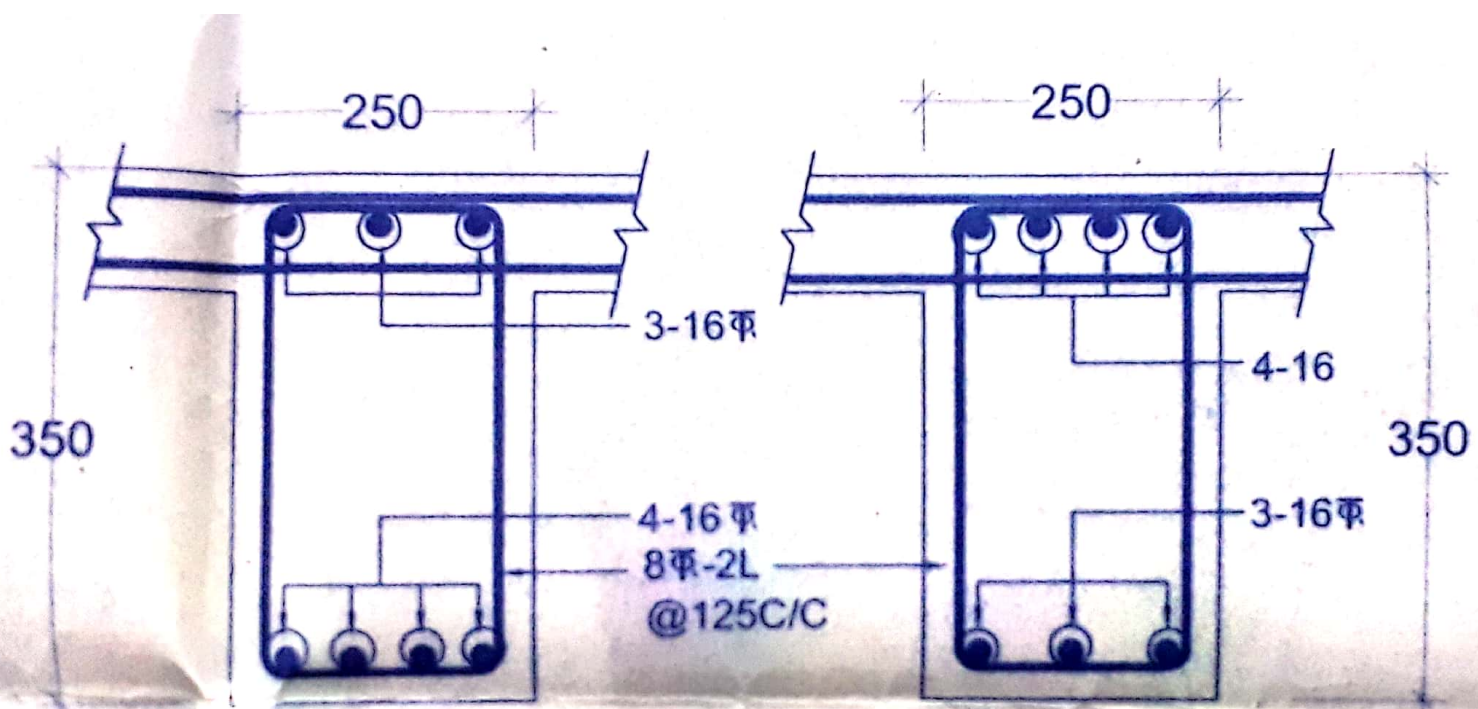
SCALE :- 1:100





SECTION OF PILE DETAILS [P1]

SCALE:- 1:25



AT MID SPAN

AT SUPPORT

SECTION OF BEAM-B1

SCALE=1:10



SCHEDULE OF R.C.C. FOUNDATION

FOU MKD.	COL. MKD.	SIZE OF FOOTING (M)	NO. OF PILE	D. (M)	REINFORCEMENT.			
					TOP LAYER		BOTTOM LAYER	
					SHT. SPAN.	LONG SPAN.	SHT. SPAN.	LONG SPAN.
P1	1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,20.	0.9x2.25	19X2 =38	0.8	12 $\bar{\Phi}$ @125C/C.	12 $\bar{\Phi}$ @125C/C.	16 $\bar{\Phi}$ @125C/C.	16 $\bar{\Phi}$ @125C/C.
P2	14 & LIFT.	2.675x2.90	8X1 =8	0.8	12 $\bar{\Phi}$ @125C/C.	12 $\bar{\Phi}$ @125C/C.	16 $\bar{\Phi}$ @125C/C.	16 $\bar{\Phi}$ @125C/C.

TOTAL NO. OF R.C.C. PILES = 46.

SCHEDULE OF R.C.C. TIE BEAM

BEAM MKD.	SIZE.	REINFORCEMENT				STIRRUP
		MID SPAN.		SUPPORT SPAN.		
		TOP.	BOTTOM.	TOP.	BOTTOM.	
TB1.	250X400	4-16 $\bar{\Phi}$.	4-16 $\bar{\Phi}$.	4-16 $\bar{\Phi}$.	4-16 $\bar{\Phi}$.	8 $\bar{\Phi}$ @150 C/C(2L)

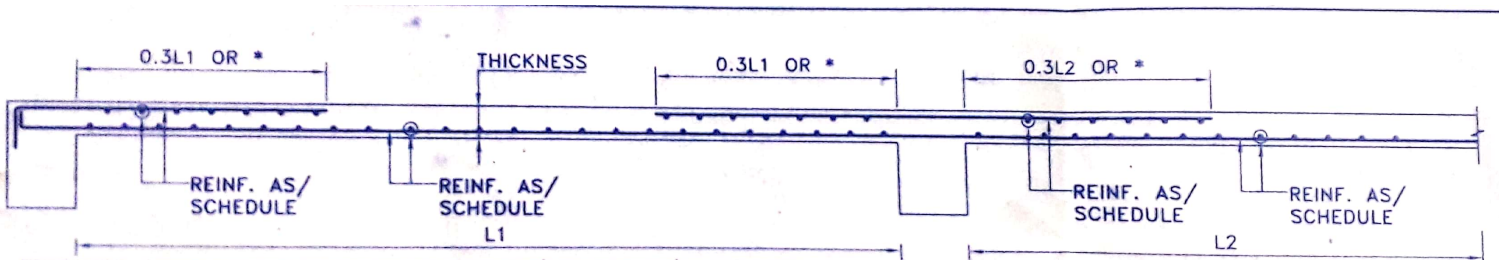
SCHEDULE OF R.C.C. PILE

DIA. OF PILE	CUT OFF LEVEL FROM G.L.(m)	SHAFT LENGTH (m)	REINFORCEMENT.	
			LONG. BAR.	LATERAL BAR.
450	2.0	18.0	8-12 $\bar{\Phi}$	8 $\bar{\Phi}$ @150 C/C.

SCHEDULE OF R.C.C. COLUMN					
COL. MKD.	SIZE & REINFORCEMENT.				RING.
	Gr. FL.	1st. FL.	2nd. FL.	3rd. FL.	
C1,C2,C3,C4, C5,C16,C18, & C20.	250x350 8-16 Φ .	250x350 8-16 Φ .	250x350 6-16 Φ +2-12 Φ	250x350 6-16 Φ +2-12 Φ	8 Φ @ 150 C/C.
C6,C7,C8,C9, C10,C11,C12, C13,C14,C15, C17 & C19.	250x400 10-16 Φ .	250x400 10-16 Φ .	250x400 8-16 Φ +2-12 Φ	250x400 8-16 Φ	

SCHEDULE OF R.C.C. BEAM						
BEAM MKD.	SIZE.	REINFORCEMENT				STIRRUPS.
		SUPPORT SPAN.		MID SPAN.		
		TOP.	BOTTOM.	TOP.	BOTTOM.	
B1.	250x350	4-16 Φ	3-16 Φ	3-16 Φ	4-16 Φ	8 Φ @ 125C/C(2L)

SCHEDULE OF R.C.C. SLAB				
SLAB MKD.	THICKNESS.	REINFORCEMENT		REMARK.
		SHORT SPAN.	LONG SPAN.	
S1.	115mm.	8 mm. Φ @ 125 C/C.	8 mm. Φ @ 125 C/C.	EXTRA TOP SAME



NOTE:
 AT CONTINUOUS SUPPORTS COMMON TO SLABS OF TWO DIFFERENT MARKS
 PROVIDE HIGHER AREA OF REINF. BETWEEN THE TWO DIFFERENTLY MARKED SLABS.

TYP. DETAIL OF FLOOR SLAB
 (* BOND LENGTH WHICHEVER IS GREATER)

STRUCTURAL DRAWING

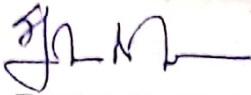
NOTES.

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. ALL REINFORCING BARS SHOWN ARE HIGH STRENGTH DEFORMED STEEL BARS OF GRADE Fe-415 TMT, CONFORMING TO IS :1786.
3. CEMENT CONC. WORK SHALL CONFORM TO LATEST REV. OF IS:456.
4. UNLESS SPECIFIED OTHERWISE, BENDING OF BARS SHALL CONFORM TO THE LATEST REV. OF IS:2502 & IS:456.
5. CONCRETE SHALL BE FOLLOWING GRADE AS PER I.S.:456-2000
 - a) FOUNDATION- M25 b) SUPERSTRUCTURE - M20
6. CLEAR COVER TO MAIN REINFORCEMENT :
 - a) FOUNDATION - 50 b) COLUMNS - 40 c) TIE BEAMS - 30
 - c) FLOOR BEAMS - 30 d) FLOOR SLAB - 20
7. LAP LENGTH OF TENSILE REINFORCEMENT SHOULD BE 50XD AND IN COMPRESSION 40XD WHERE 'D' IS THE SMALLER DIAMETER OF BAR.
8. ALL LEAN CONCRETE SHALL BE 1:3:6 AND 75 M.M. THK.
9. UNLESS SPECIFIED OTHERWISE ALL HOOKS, BENDS, LAPS, SPLICED ETC. SHALL BE AS PER RELEVANT INDIAN STANDARDS. .
10. FOR THE LOCATION OF THE BUILDING REFER TO THE ARCHITECTURAL DRAWING.

PROPOSED (G+III) STORIED RESIDENTIAL BUILDING AT PREMISES NO- 33/71, N. C.DAS ROAD, KOL-90, MOUZA- NOAPARA, TOUZI NO - 173, HOLDING NO - 180, WARD NO-16, KHATIAN NO-113, DAG NO-124, UNDER P. S & MUNICIPALITY BARANAGAR, DIST-24 PGNS (N),

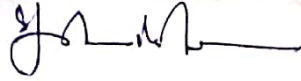
CERTIFICATE OF STRUCTURAL STABILITY

WE HERE BY CERTIFY THAT THE FOUNDATION & SUPERSTRUCTURE OF THE PRO. G+III STO. BUILDING AT PRE. NO.-33/71,N.C. DAS ROAD,KOLKATA-90 HAVE BEEN SO DESIGNED & CHECKED BY US WILL MAKE SUCH FOUNDATION & SUPER STRUCTURE SAFE IN ALL RESPECT, INCLUDING THE CONSIDERATION OF BEARING CAPACITY & SETTLEMENT OF SOIL E.T.C.



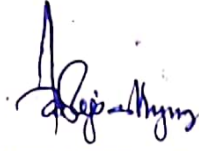
Sujit Mitra
M.E., F.I.E., L.M.I.G.S., Chartered Engg.
Structural Engineer
Baranagar Municipality
LIC No.- BM/SE-A/06

SIG. OF
STRUCTURAL
ENGINEER



Sujit Mitra
M.E., F.I.E., L.M.I.G.S., Chartered Engg.
Geotechnical Engineer
Baranagar Municipality
LIC No.- BM/GEO-TECH/02

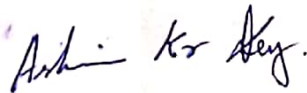
SIG. OF
GEO. TEC.



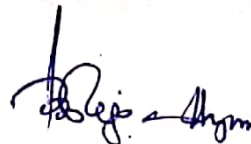
TIRTHAPRATIM MUKHOPADHYAY
Consulting Civil Engineer
License No. - BM/LBS-A/35
Mobile No. 98300-36214

SING OF L.B.S

1. WE DO HEREBY UNDERTAKE THAT, WE WILL NOT RESORT TO MANUAL DRAVING & ENGAGING SANITATION WORKERS FOR CLEANING OF SEPTIC TANK OF OUR PROPOSED BLDG AT PRE NO. 33/71, N.C. DAS ROAD, KOLKATA-90.
2. PRECAUTIONARY MEASURES WILL BE TAKEN BY US LIKE SHEET PILING ETC. AT TIME OF EXCAVATION WORK FOR FOUNDATION.
3. PRECAUTIONARY MEASURES WILL BE TAKEN BY US AT TIME OF DEMOLISHING OF EXISTING STRUCTURE ON THIS PLOT.



SING OF OWNERS



TIRTHAPRATIM MUKHOPADHYAY
Consulting Civil Engineer
License No. - BM/LBS-A/35
Mobile No. 98300-36214

SING OF L.B.S.



DATE :- 09. 01. 2018

SCALE-1:100,1:10,1:25

BARANAGAR

Sanctioned by the Councillors at
their meeting held on 19.2.18
Vide Item No. 5(N)

Intimation should be given
to the office before execution

Any deviation or alteration
requires prior sanction of
the Municipal Authority



For
Assistant Engineer
P.W. Department
Baranagar Municipality

SANCTIONED

[Signature]
Chairman
Baranagar Municipality

कृ. नं. नि. अ. नि. वि. अ. नं. | 195/16
अ. नि. 19.03.18

अनुमोदित मज्रा

Sanctioned Valid Upto 18.02.21