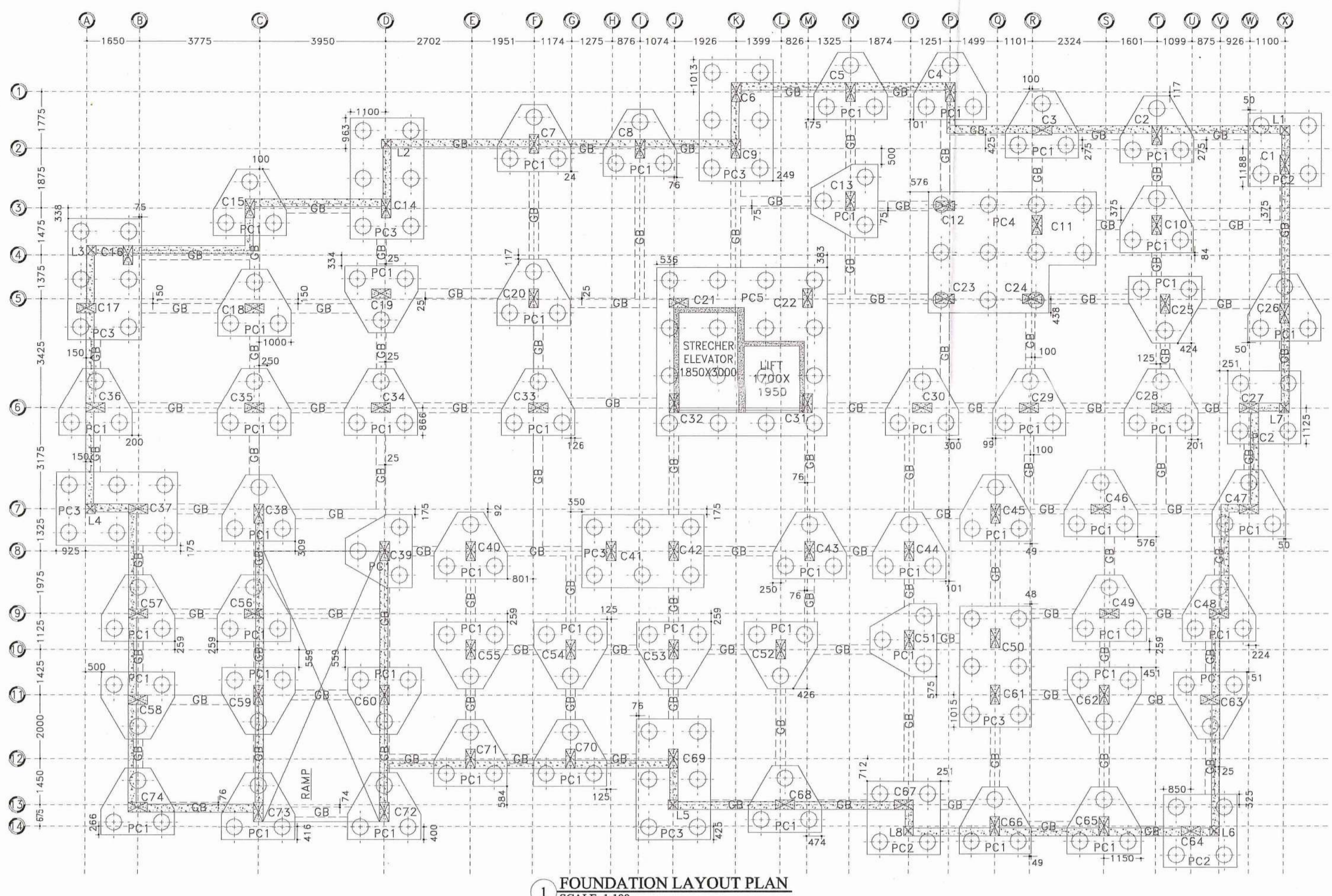


PROJECT NAME:-  
 STRUCTURAL DRAWING OF PROPOSED (B+G+10) STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF MR. SADHIN GHOSH S/O LATE LAMBODHAR GHOSH MR. HARIMOY BHARATI S/O PRNOBANDO BHARATI MRS. PAPIYA CHAUDHURI DAS W/O BIBEKANDA CHAUDHURI MRS. KRISHNA MONDAL W/O ANUPAM MONDAL MRS. PLABANI GHOSH W/O MOLOY GHOSH MR. AVIJIT GHOSH S/O GAJANAN GHOSH MR. PRANABENDU MISRA S/O RASAMONY MISRA MRS. JAYANTI MITRA W/O KALYAN MITRA L.R. PLOT NO-545, 529, L.R. KHATIAN NO- 1805, 2921, 2930, 2929, 2664, 2636, 2637, 2635, J.L. NO-109 MOUZA-SHANKARPUR, P.S-N.T.P.S, DIST-PASCHIM BARDHAMAN, WEST BENGAL .

- NOTES :-
- (±) 0.00 m LEVEL REFERS TO E.G.L.
  - 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.
  - ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
  - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
  - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT. BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
  - ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
  - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH=50xBAR DIA.
  - UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C
  - CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-  
 a) Beam:-25mm, b) Column:-40mm, c) Slab:-15mm, d) Footing:-50mm, e) R.C.C Wall:-20mm, f) Stair:- 20mm.
  - Grade of concrete will be M30 for column and M25 for beam and sub structure as per is: 456:2000.
  - Development length 50xD for lap & splices should be provided as per the provisions laid down in SP34:1987



1 FOUNDATION LAYOUT PLAN  
SCALE: 1:100

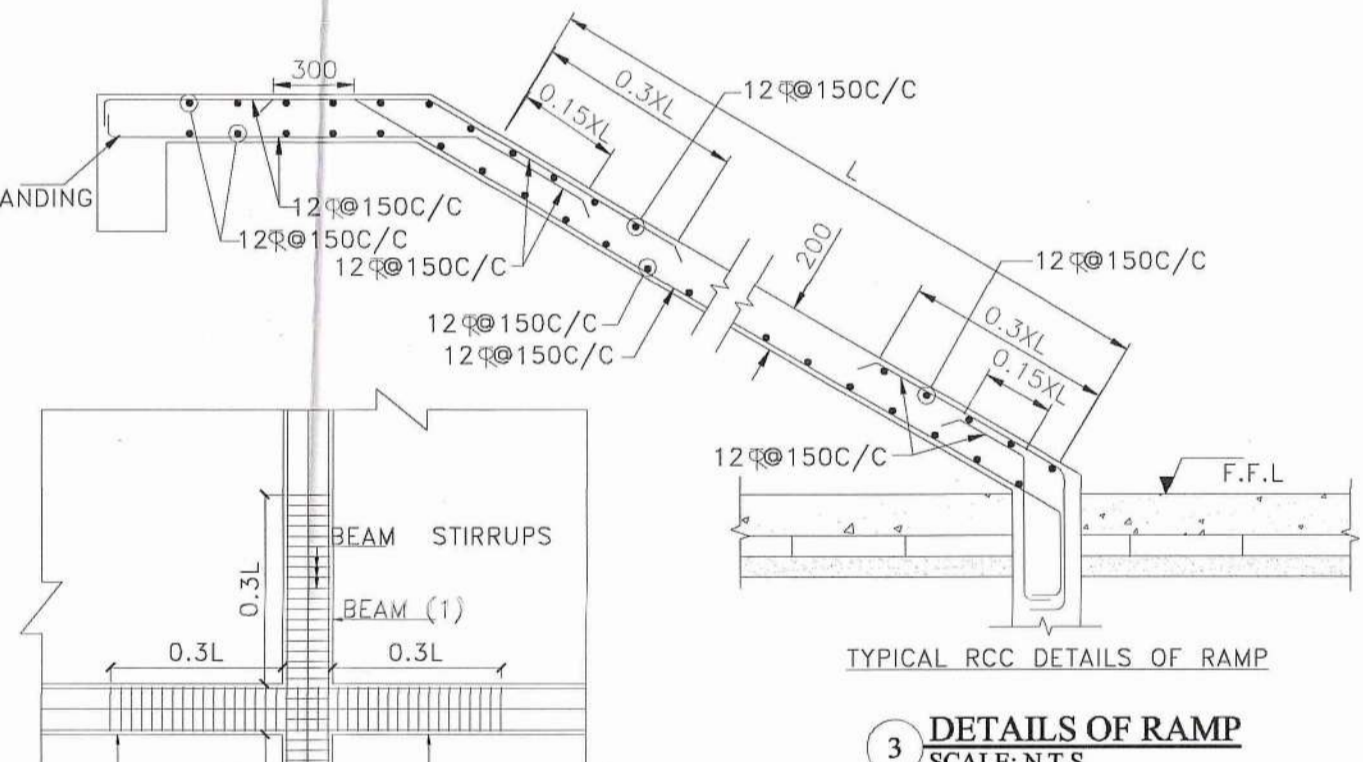
TABLE NO:-01 SCHEDULE OF PILE CAP (500 Ø PILE)

PILE CAP MARKED	NAME OF COLUMN	CAP SIZE LENGTH (mm) WIDTH (mm)	THICKNESS (mm)	BOTTOM REINFORCEMENT(A)		TOP REINFORCEMENT(B)		C LINK(C) (BOTH DIRECTION)	SIDE FACE REINFORCEMENT (D)	CUT OFF LEV.
				ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION	ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION			
PC1(3P)	C2,C3,C4,C5,C7,C8, C10,C13,C15,C18, C19,C20,C25,C26, C28,C29,C30,C33, C34,C35,C36,C38, C39,C40,C43,C44, C45,C46,C47,C48, C49,C51,C52,C53, C54,C55,C56,C57, C58,C59,C60,C62, C63,C65,C66,C68, C70,C71,C72,C73, C74.	SEE LAYOUT PLAN	1200	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	12 ϕ150 C/C	16 ϕ100 C/C	(-) 4.0 m
PC2(4P)	(C1+L1),(C27+L7), (C64+L6),(C67+L8).	2300 2300	1200	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	12 ϕ150 C/C	16 ϕ100 C/C	(-) 4.0 m
PC3(6P)	(C6+C9),(C14+L2), (C16+C17+L3), (C37+L4),(C41+C42), (C50+C61), (C69+L5).	2300 3800	1200	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	12 ϕ150 C/C	16 ϕ100 C/C	(-) 4.0 m
PC4(11P)	(C11+C12+C23+ C24)	SEE LAYOUT PLAN	1200	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	12 ϕ150 C/C	16 ϕ100 C/C	(-) 4.0 m
PC5(16P)	(C21+C22+C31+C32 +LIFT+STRECHER)	5300 5300	1200	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	25 ϕ150 C/C	12 ϕ150 C/C	16 ϕ100 C/C	(-) 5.40 m

2. SCHEDULE OF PILE MIN CEMENT CONTENT IN CONCRETE SHALL BE = 400kg/m<sup>3</sup>

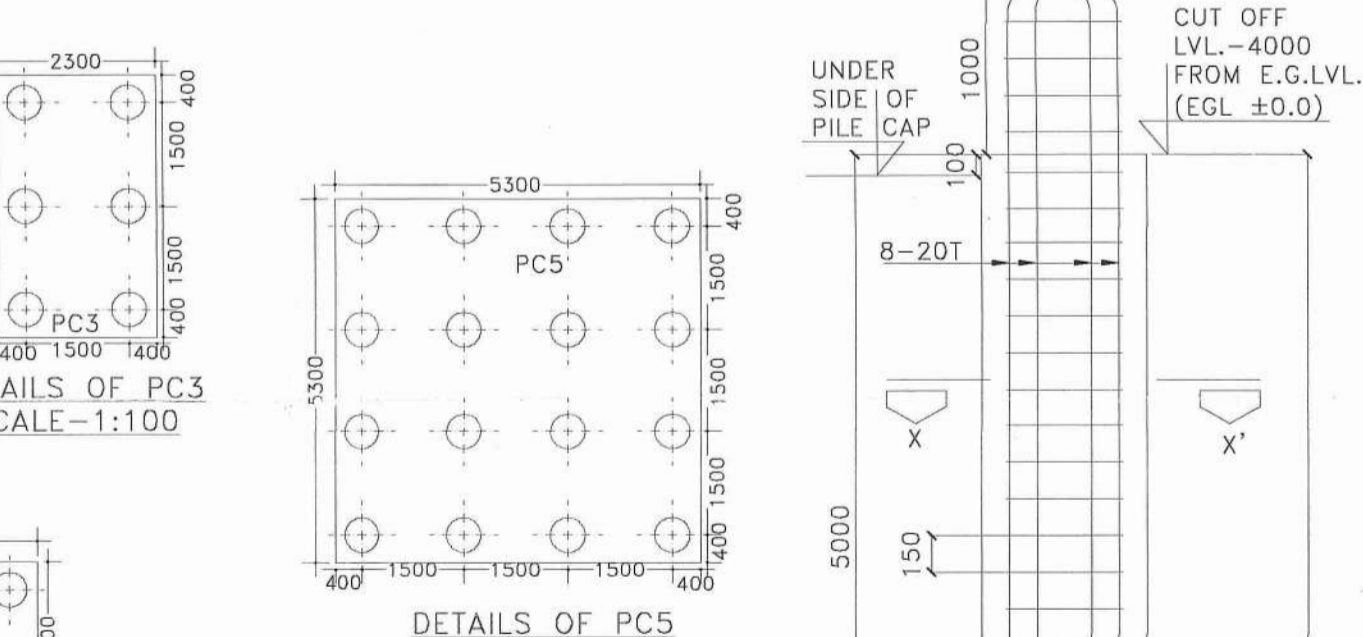
LEGEND	DIA OF PILE (MM)	CUT-OFF LEVEL (M)	PILE LENGTH (M)	MAIN REINFORCEMENT	PILE CAPACITY SAFE WORKING LOAD IN TONS			REMARKS
					COMPRESSION	TENSION	LATERAL	
	500 DIA	EL.(-)4000 EXCEPT PILES UNDER LIFT PIT	22.0	8-20ϕ(ALTH)	-	-	-	CUT OFF LEVEL IS (-) 5.40 MM LEVEL FROM E.G.L. FOR LIFT

NOTE:- ABOVE ARE THE PILE DETAILS ADOPTED. THESE MUST BE ENSURED AT SITE BY PILE LOAD TEST.



3 DETAILS OF RAMP SCALE: N.T.S

1 DETAILS OF CROSS BEAM JUNCTION SCALE: 1:50



1 DETAILS OF CROSS BEAM JUNCTION SCALE: 1:50

DETAILS OF PC3 SCALE: 1:100

DETAILS OF PC2 SCALE: 1:100

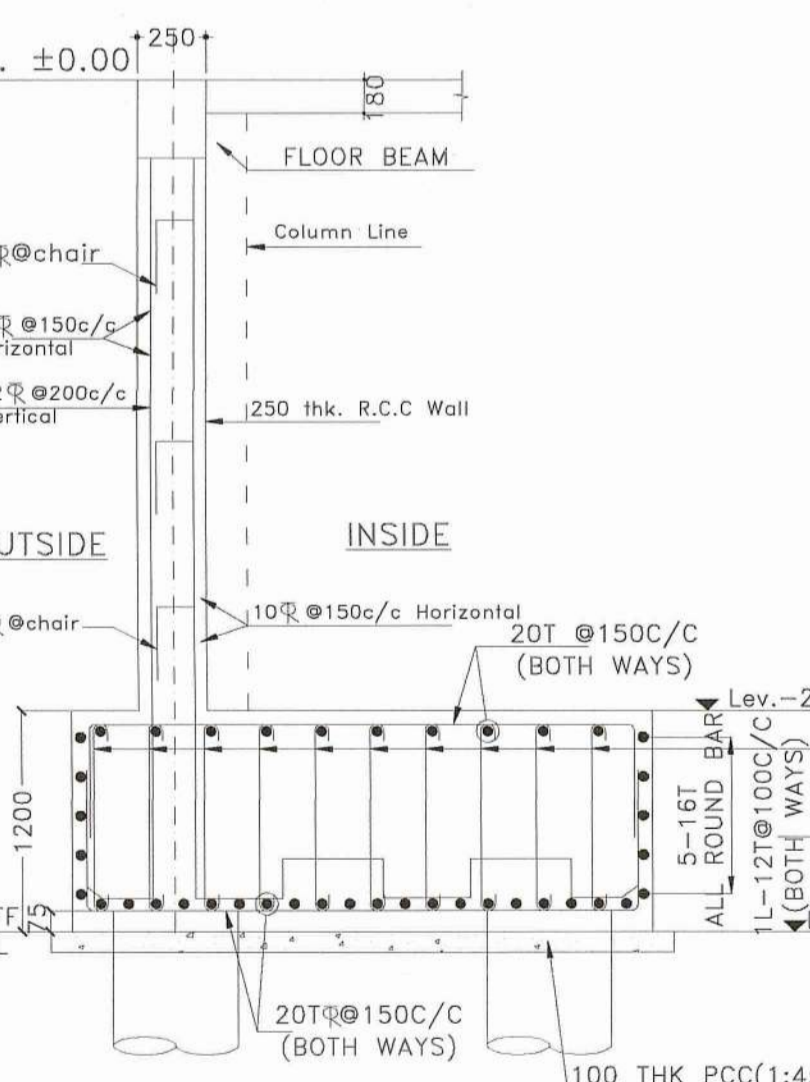
DETAILS OF PC4 SCALE: 1:100

DETAILS OF PC5 SCALE: 1:100

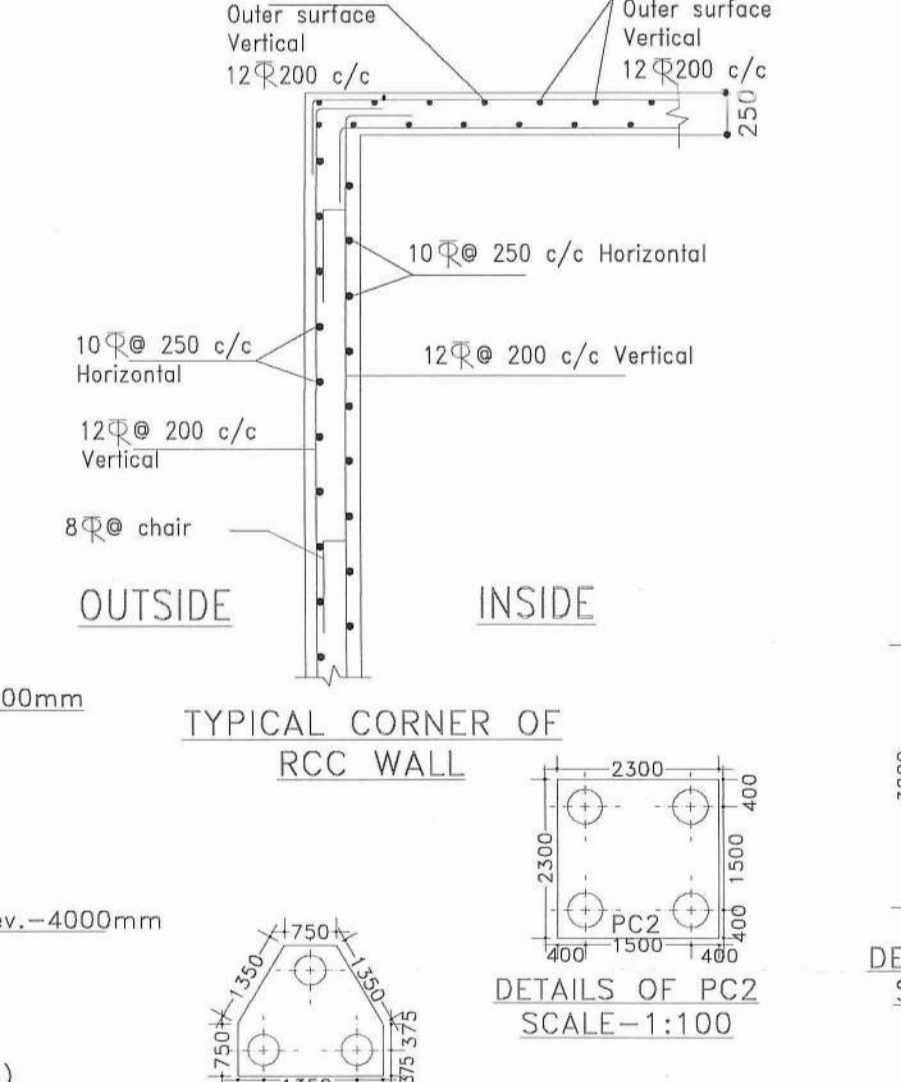
SECTION-X-X' SCALE: 1:50

3 TYPICAL DETAILS OF PILE CAP (SECTION) SCALE: 1:50

4 TYPICAL DETAILS OF 500 DIA PILE SCALE: 1:50



2 DETAILS OF RETAINING WALL SCALE: N.T.S



TYPICAL CORNER OF RCC WALL SCALE: 1:100

DETAILS OF PC1 SCALE: 1:100

SECTION:- A-A SCALE - N.T.S

SECTION:- B-B SCALE - N.T.S

REIN. DETAILS OF GRADE BEAM SCALE: N.T.S

3 TYPICAL DETAILS OF PILE CAP (SECTION) SCALE: 1:50

4 TYPICAL DETAILS OF 500 DIA PILE SCALE: 1:50

SIGNATURE OF DEVELOPER/OWNER:-

*Pranabendu Misra*

SIGNATURE OF ARCHITECT:-

*Manju Mukherjee*  
 MANJU MUKHERJEE ARCHITECT  
 CA/2022/146222  
 G.I.D.S., Durgapur -16

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VERIFIED BY:-

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 Professor  
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 Approved Plan No. 39 on Meeting No. 04/2022-23 on 23.10.2022 Valid upto 04.11.2025  
 Saptasati Sen  
 Pradhan  
 Jemua Gram Panchayat

TITLE:-

FOUNDATION LAYOUT PLAN, SCHEDULE OF FOUNDATION SECTIONAL DETAIL OF PILE, SECTIONAL DETAILS OF PILE CAP, SECTIONAL DETAILS OF GRADE BEAM, SECTIONAL DETAILS OF R.C.C WALL.  
 DRAWN BY:- A. BAIDHYAKAR, J. ULAL  
 CHECKED BY:- S AKHTAR  
 SCALE: 1:100, N.T.S  
 REV-00  
 DATE: 04.04.23  
 SHEET NO:- STRUCTURE:-02-03

