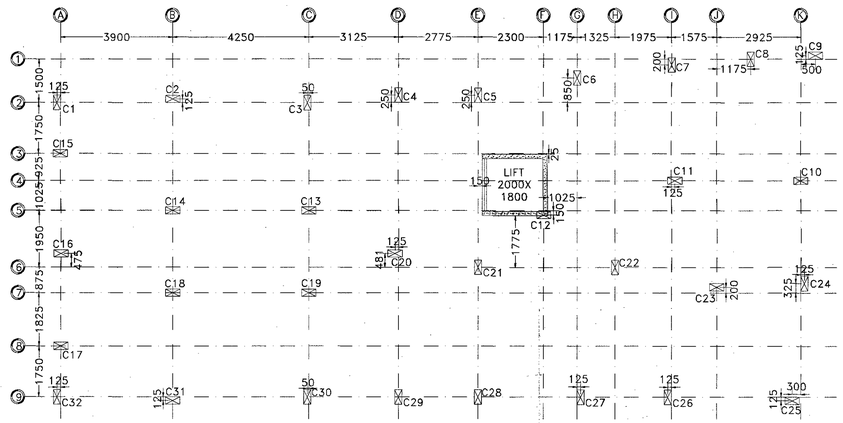
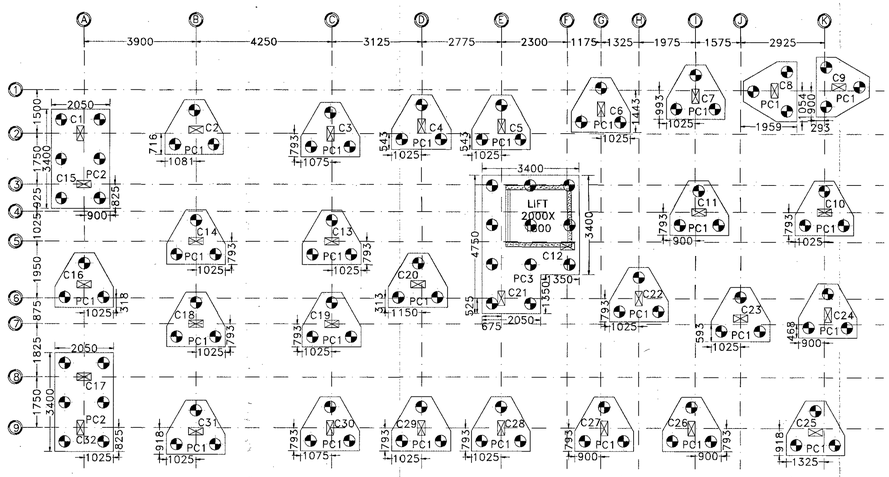


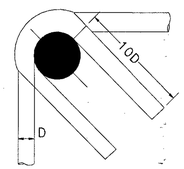
1 **COLUMN LAYOUT PLAN**
SCALE: 1:100



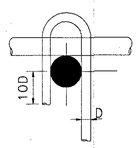
2 **FOUNDATION LAYOUT PLAN.**
SCALE: 1:100

TABLE NO:-01 (SCHEDULE OF COLUMNS)

COLUMN MARKED	NO.OF COLUMN	COLUMN SIZE (mm x mm)	FOUNDATION TO 3RD FLOOR LONGITUDINAL REINFORCEMENT	4TH FLOOR TO 5TH FLOOR LONGITUDINAL REINFORCEMENT	6TH FLOOR TO ROOF LONGITUDINAL REINFORCEMENT	TIE	SHAPE OF STIRRUPS
C1,C2,C3,C4, C5,C6,C7,C8, C9,C10,C15, C16,C17,C24, C25,C26,C27, C28,C29,C30, C31,C32.	22	600X300	REINFORCEMENT: 12-20ϕ	REINFORCEMENT: 10-20ϕ 2-16ϕ	REINFORCEMENT: 8-20ϕ 4-16ϕ	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS-8ϕ@150C/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS- 8ϕ@150C/C (4 NOS. CLOSED LINK PER SET)	
C11,C12,C13, C14,C18,C19, C20,C21,C22, C23.	10	600X300	REINFORCEMENT: 10-20ϕ 2-16ϕ	REINFORCEMENT: 8-20ϕ 4-16ϕ	REINFORCEMENT: 6-20ϕ 6-16ϕ	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS-8ϕ@150C/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS- 8ϕ@150C/C (4 NOS. CLOSED LINK PER SET)	

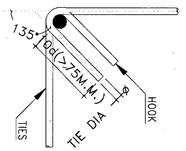


FOR 135° HOOK

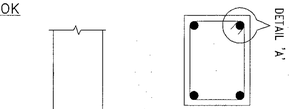


FOR 180° HOOK

TYP. DETAIL OF HOOK



DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)



DETAILS OF COLUMN HOOK REINFORCEMENT

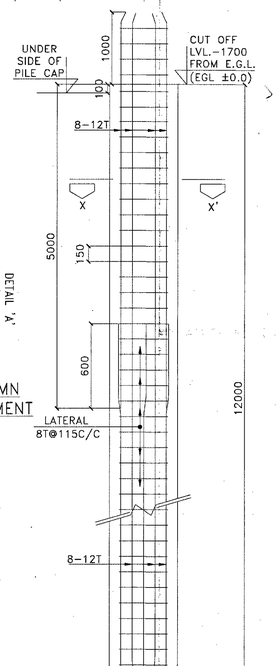


TABLE NO:-01 SCHEDULE OF PILE CAP

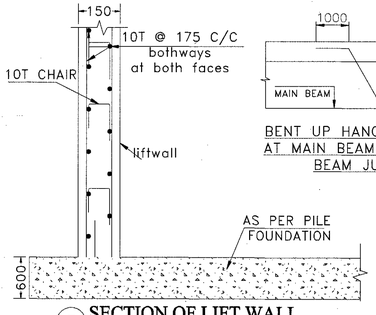
PILE CAP MARKED	NAME OF COLUMN	CAP SIZE LENGTH (mm)	CAP SIZE WIDTH (mm)	THICKNESS (mm)	BOTTOM REINFORCEMENT(A) ALONG LONGER DIRECTION	BOTTOM REINFORCEMENT(A) ALONG SHORTER DIRECTION	TOP REINFORCEMENT(B) ALONG LONGER DIRECTION	TOP REINFORCEMENT(B) ALONG SHORTER DIRECTION	C LINK(C) (BOTH DIRECTION)	SIDE FACE REINFORCEMENT (D)	CUT OFF LEV.
PC1(3P)	C2,C3,C4,C5,C6,C7,C8, C9,C10,C11,C13,C14, C16,C18,C19,C20,C22, C23,C24,C25,C26,C27, C28,C29,C30,C31.	SEE LAYOUT PLAN		600	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	12ϕ@150 C/C	16ϕ@100 C/C	(-) 1.7 m
PC2(6P)	(C1+C15),(C17+C32)	3400	2050	600	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	12ϕ@150 C/C	16ϕ@100 C/C	(-) 1.7 m
PC3(11P)	(C12+C21+LIFT)	SEE LAYOUT PLAN		600	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	16ϕ@150 C/C	12ϕ@150 C/C	16ϕ@100 C/C	(-) 3.35 m

TABLE NO:-01 SCHEDULE OF PILE (400 ø PILE)

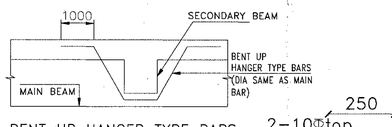
MIN CEMENT CONTENT IN CONCRETE SHALL BE = 400kg/m³

LEGEND	DIA OF PILE (MM)	CUT-OFF LEVEL (M)	PILE LENGTH (M)	MAIN REINFORCEMENT	PILE CAPACITY SAFE WORKING LOAD IN TONS COMPRESSION	PILE CAPACITY SAFE WORKING LOAD IN TONS TENSION	PILE CAPACITY SAFE WORKING LOAD IN TONS LATERAL	REMARKS
	450 DIA	EL.(-)1700 EXCEPT PILES UNDER LIFT PIT	12.0	8-12ϕ(ALTH)	-	-	-	CUT OFF LEVEL IS (-) 3350 MM LEVEL FROM E.G.L. FOR LIFT

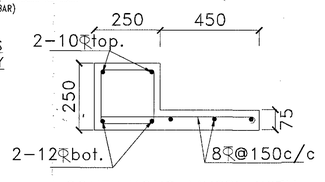
NOTE:- ABOVE ARE THE PILE DETAILS ADOPTED. THESE MUST BE ENSURED AT SITE BY PILE LOAD TEST.



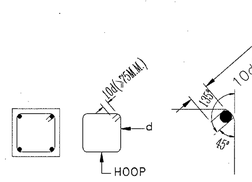
7 **SECTION OF LIFT WALL**
SCALE: 1:25



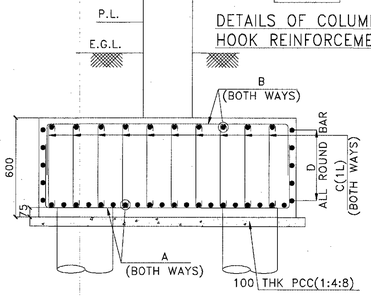
BENT UP HANGER TYPE BARS AT MAIN BEAM & SECONDARY BEAM JUNCTIONS



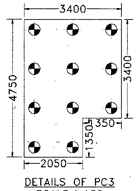
CONTINUOUS LINTEL WITH CHAJJA ALONG EXTERNAL WALL
scale-1:25



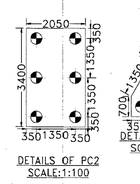
STIRRUP DETAIL
(d = DIA OF STIRRUP BAR)



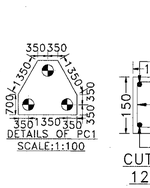
6 **TYPICAL DETAILS OF PILE CAP SECTION**
SCALE:- N.T.S.



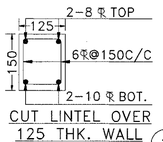
DETAILS OF PC3
SCALE:1:100



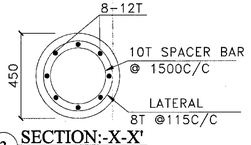
DETAILS OF PC2
SCALE:1:100



DETAILS OF PC1
SCALE:1:100



CUT LINTEL OVER 125 THK. WALL



3 **SECTION:-X-X'**
SCALE: 1:50

3A **TYPICAL DETAILS OF 400 DIA PILE**
SCALE: N.T.S.

PROJECT NAME:-

STRUCTURAL DRAWING OF PROPOSED (G+7) EIGHT STORIED RESIDENTAIL CUM COMMERCIAL BUILDING OF MR. SUSHANTA CHATTERJEE S/O LT KANCHAN CHATTERJEE, MRS. SUSHILA DEVI SINGH W/O LT BHAGWAN SINGH, MRS. NIVA CHATTERJEE W/O LT KANCHAN CHATTERJEE, R.S. PLOT NO-2701,2702, L.R. PLOT NO-2701,2702, L.R. KHATIAN NO-4960,4328,6800. J.L. NO-52, MOUZA-ANDAL, P.S.- ANDAL, DIST-PASCHIM BARDHAMAN, WEST BENGAL.

NOTES:-

1. (±) 0.00 M LEVEL REFERS TO E.G.L.
2. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
3. 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.
4. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
5. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
6. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT. BARS OF GRADE FE-500/500 D CONFORMING TO IS-1786-2008.
7. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
8. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH=50XBAR DIA.
9. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8T @ 250 C/C
10. CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:- A)BEAM:-25MM, B)COLUMN:-40MM, C)SLAB:-15MM, D)FOOTIING:-50MM,E)R.C.C WALL:-20MM, F) STAIR:- 20MM.
9. GRADE OF CONCRETE WILL BE M30 FOR COLUMN AND M25 FOR BEAM AND SUB STRUCTURE AS PER IS: 456:2000.
10. DEVELOPMENT LENGTH 50XD FOR LAP & SPICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987

SIGNATURE OF DEVELOPER/OWNER:-

Avinya
PARTNER

Avinya
PARTNER

VETTED BY:-

DR. S. N. MUKHERJEE
Professor
CIVIL ENGINEERING DEPT.
JADAVPUR UNIVERSITY
KOLKATA-700032, (W.B.)

8.4.25
Andal Gram Panchayat
Andal, Paschim Bardhaman

SIGNATURE OF GEO-TECHNICAL ENGINEER:-

SWADESH KUMAR MONDAL
Geo-Technical Engineer
M.I.G.S. No-LM/1242
LIC NO-DMC/BPD/GEO-II34

SIGNATURE OF STRUCTURAL ENGINEER:-

HIROK GHOSH
Structural Engineer
Lic No. L.B.P.M/163/AMC-DMC/BPD/165
DCE, B-TECH, G.I.D.S. Durgapur-16
Contact No.- 7602984157

SIGNATURE OF ARCHITECT:-

MANJU MONOWARA KHATUN
ARCHITECT
CA/2022/146222
GIDS, Durgapur -16

TITLE:-

COLUMN LAYOUT, SCHEDULE OF COLUMN, FOUNDATION LAYOUT, SCHEDULE & SECTIONAL DETAILS OF PILE & PILE CAP, SECTION OF LIFT WALL, CUT LINTEL & CONTINUOUS LINTEL, HOOK DETAILS, STIRRUPS DETAILS, BENT UP BARS AT MAIN BEAM & SECONDARY BEAM JUNCTION.

DRAWN BY:- E. DUTTA.	
CHECKED BY:- S. AKHTAR.	
SCALE:- 1:100, 1:50, 1:25, N.T.S	
REV-00	DATE:- 06.01.2024
SHEET NO:- STRUCTURE- 01/02	

S M E N