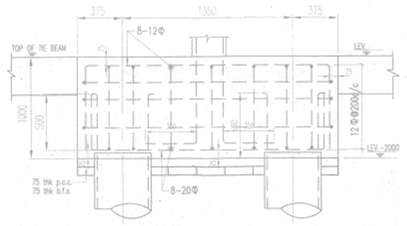
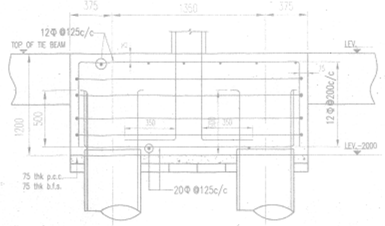


SECTION AT 1–1



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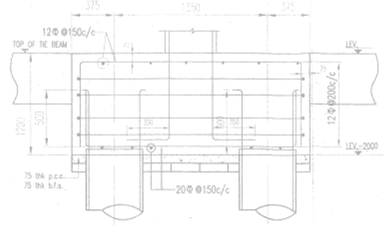

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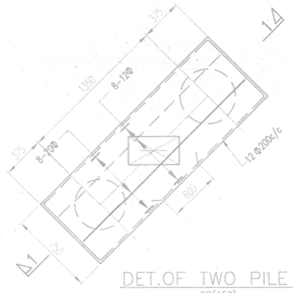
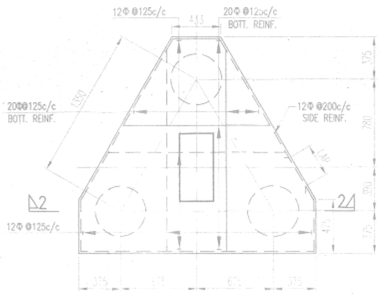
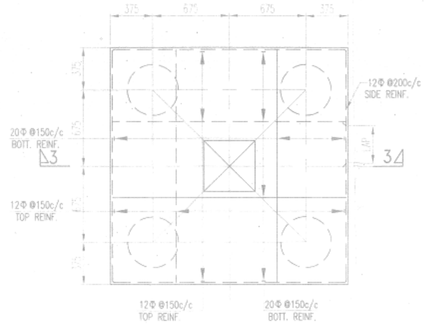


DET.OF TWO PILE CAP
2P(450)



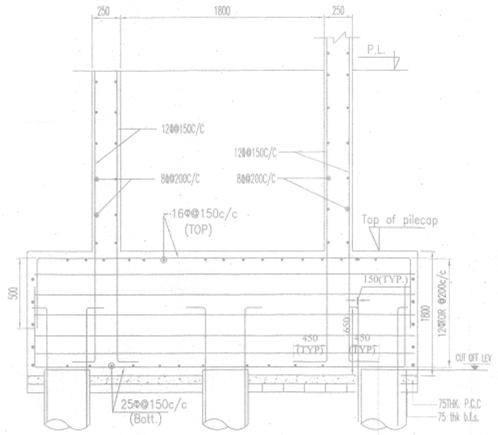
DET.OF THREE PILE CAP
3P(450)



DET.OF FOUR PILE CAP
4P(450)

PILE CAP SCHEDULE GRADE OF CONCRETE - M25 Fy-500

TYPE	SIZE	DEPTH	REINFORCEMENT IN SHORTER DIRECTION		REINFORCEMENT IN LONGER DIRECTION		SKIN REINF.
			TOP REINF.	BOTT. REINF.	TOP REINF.	BOTT. REINF.	
2P	AS SHOWN	1000	–	–	7-12 TOR	7-20 TOR	12ϕBL @200C\C
3P	AS SHOWN	1000	10 TOR @125 CC	20 TOR @125 CC	10 TOR @125 CC	20 TOR @125 CC	12 TOR @200C\C
4P	AS SHOWN	1200	12 TOR @150 CC	20 TOR @150 CC	12 TOR @150 CC	20 TOR @150 CC	
4P1	AS SHOWN	1200	12 TOR @150 CC	20 TOR @150 CC	12 TOR @150 CC	20 TOR @150 CC	
4P2	AS SHOWN	1200	12 TOR @150 CC	20 TOR @150 CC	12 TOR @150 CC	20 TOR @150 CC	
4P3	AS SHOWN	1200	12 TOR @150 CC	20 TOR @150 CC	12 TOR @150 CC	20 TOR @150 CC	
5P	AS SHOWN	1400	12 TOR @150 CC	20 TOR @150 CC	12 TOR @150 CC	20 TOR @150 CC	
5P1	AS SHOWN	1400	12 TOR @150 CC	20 TOR @150 CC	12 TOR @150 CC	20 TOR @150 CC	
6P	AS SHOWN	1400	12 TOR @150 CC	20 TOR @150 CC	12 TOR @150 CC	20 TOR @150 CC	
24P	AS SHOWN	1800	16 TOR @150 CC	25 TOR @125 CC	16 TOR @150 CC	25 TOR @125 CC	



SECTION A–A

SCHEDULE AT CUT OFF LEVEL OF PILECAP
TOP OF PILE CAP (EGL (0.00)

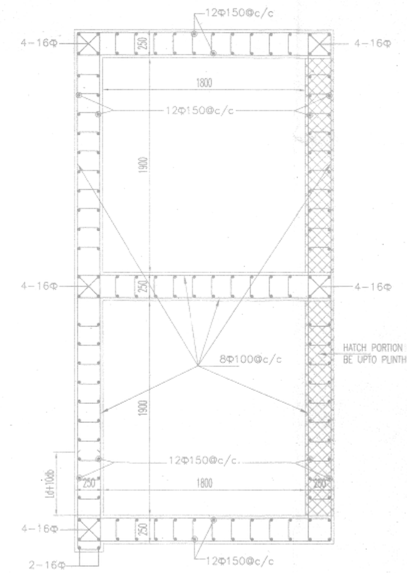
SL. NO.	PILE CAP MKD.	CUT OFF LVL.
01.	2P	-1400 LVL.
02.	3P	-1400 LVL.
03.	3P1	-1400 LVL.
04.	4P	-1600 LVL.
05.	4P1	-1600 LVL.
06.	4P2	-1600 LVL.
07.	4P3	-1600 LVL.
08.	5P	-1750 LVL.
09.	5P1	-1750 LVL.
10.	6P	-1750 LVL.
11.	24P	-3450 LVL.

Grade of Concrete M25
= 400Kg /m 3Grade of conc M25

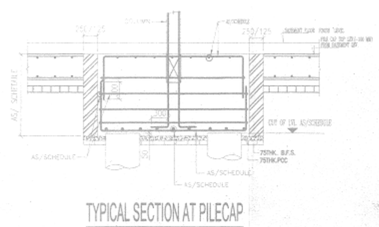
TYPE	DIA OF PILE	REINFORCEMENT	CAPACITY
○	450ϕ	6-12ϕT	50 T

SCHEDULE OF TIE BEAM (M20 AND FE 500)

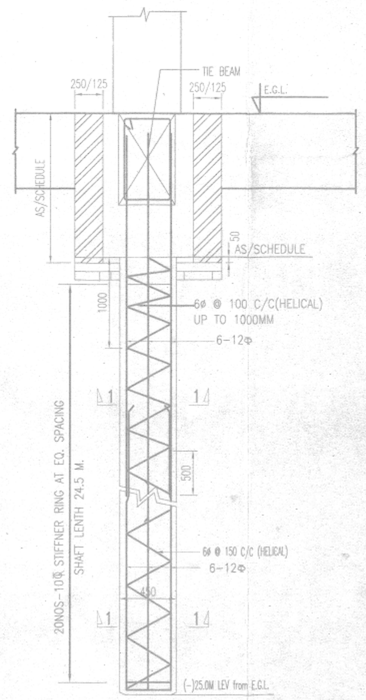
BEAM MKD.	SIZE (MMxMM)	TOP		BOTT.		STIRRUPS (2 LEGGED)	
		ALTH	(EXTAND BUPT.)	ALTH	(EXTAND SPAN)	AT SUPPORT	AT SPAN
TB1	250x350	2-12ϕ+1-16ϕ	-	2-16 +1-12ϕ	-	8ϕ @100mm C/C	8ϕ @150mm C/C
TB2	250x350	3-16ϕ	-	3-16ϕ	-	8ϕ @100mm C/C	8ϕ @150mm C/C



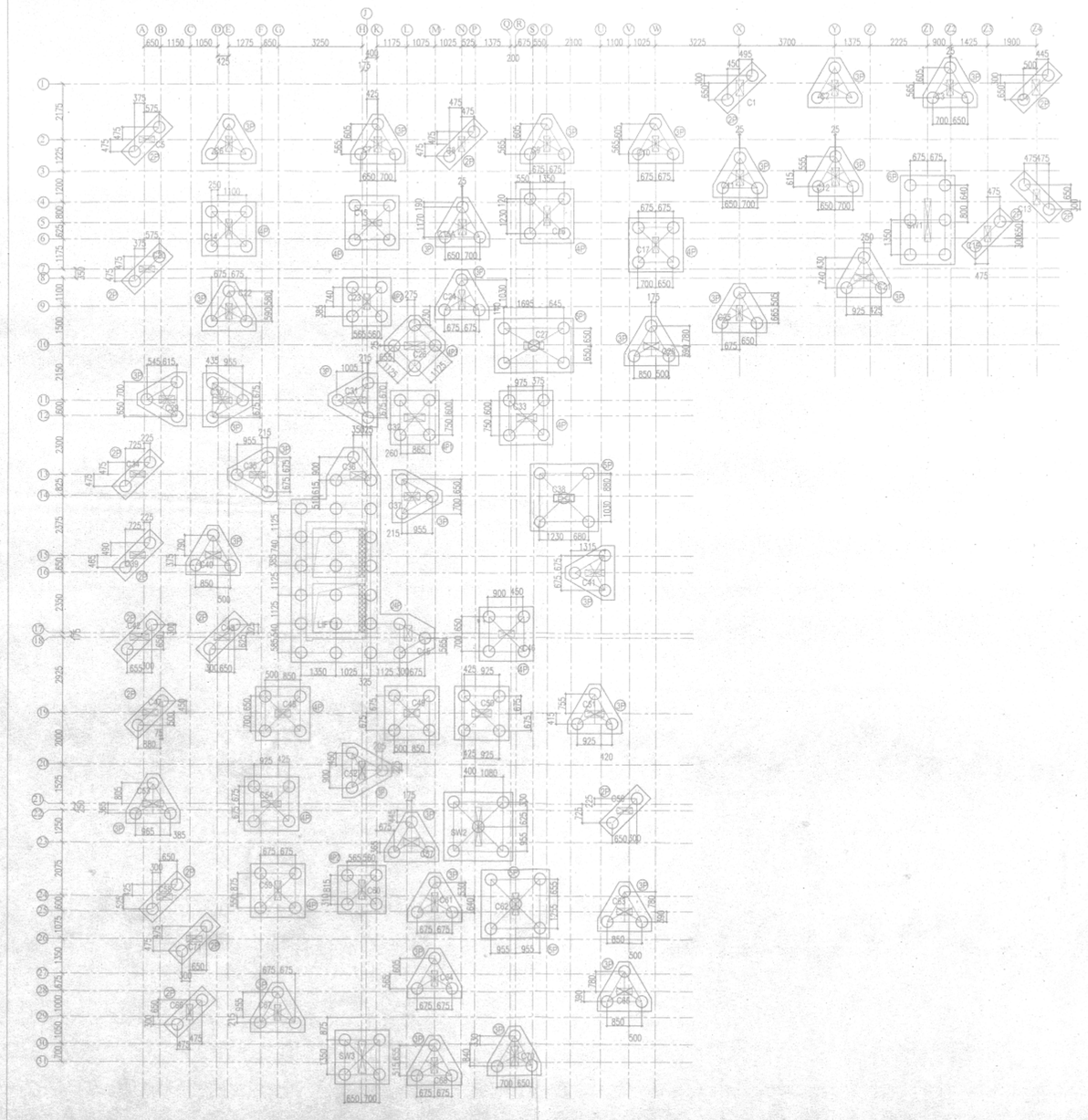
R.C. DETAIL OF LIFT



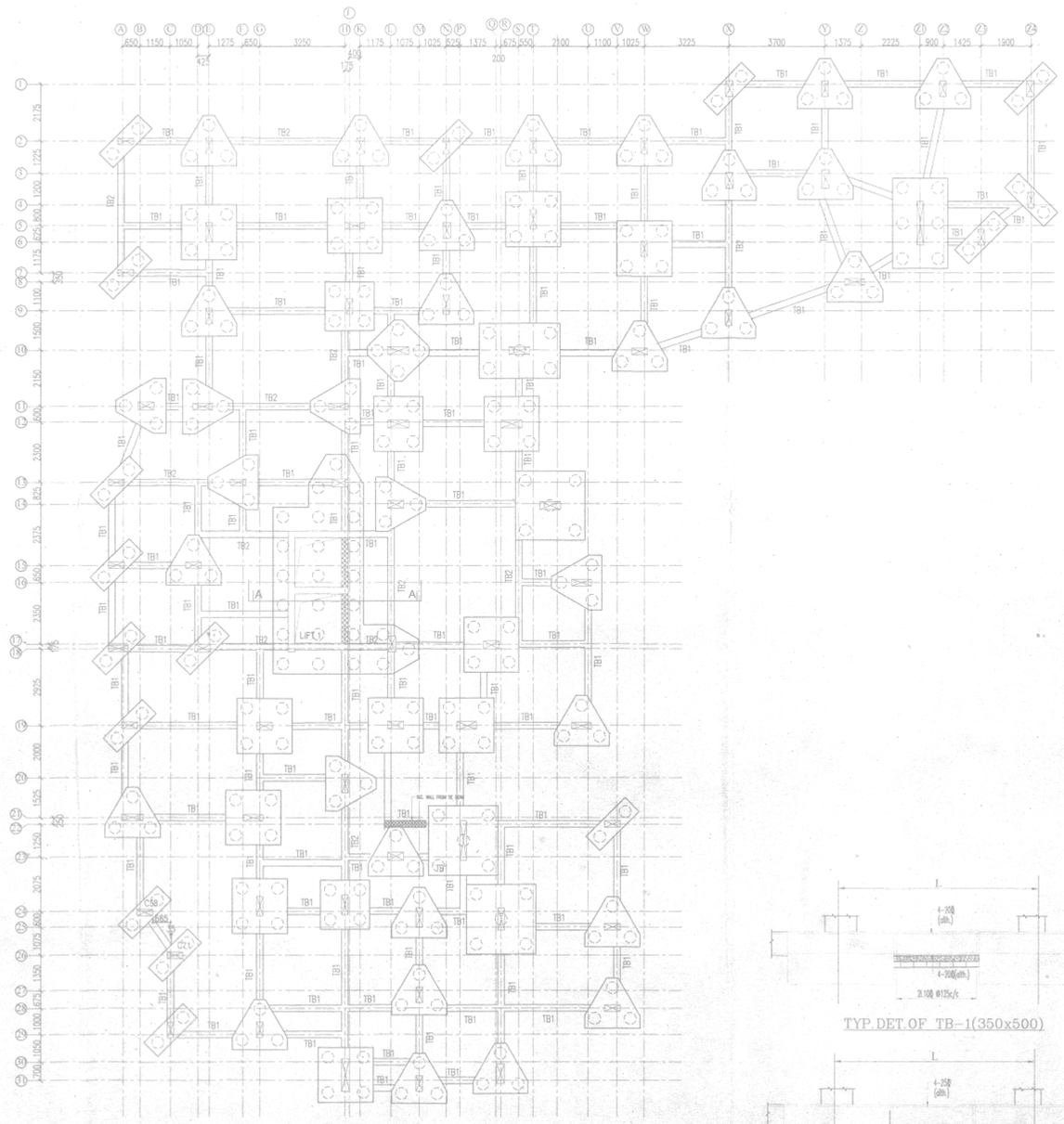
TYPICAL SECTION AT PILECAP



TYPICAL DETAIL OF PILE

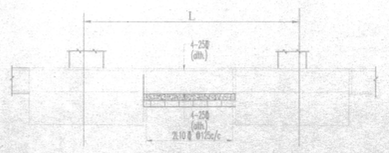


PILE LAYOUT PLAN(BLOCK-A)

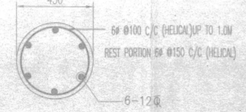


TIE BEAM & PILECAP LAYOUT PLAN(BLOCK-A)

TYP. DET OF TB–1(350x500)



TYP. DET OF TB–2(300x500)



SECTION 1-1

PILE NOTES

1. CAPACITY OF EACH PILE IS ASSUMED AS/SCHEDULE MT AS PER THE SOIL INVESTIGATION REPORT. THIS IS TO BE CHECKED BY CONDUCTING "ROUTINE LOAD TEST" ON WORKING PILES AS PER IS:2911 (PART–4) 1985. THE RESULTS OF THESE TESTS ARE TO BE PLOTTED AND SUBMITTED TO ARCHITECTS OR CONSULTANTS FOR FURTHER ACTION.
2. AFTER APPROVAL OF BEARING STRATA BY THE ENGINEER–IN–CHARGE SIDES OF BORES SHALL BE STABILIZED WITH BENTONITE CIRCULATION CONFORMING TO SPECIFICATION.
3. CARE SHOULD BE TAKEN WHILE LOWERING REINFORCEMENT CAGE IN TO THE BORE SUCH THAT PROPER ALIGNMENT OF BARS ARE MAINTAINED. AVOID LAP IN REINFORING BARS. IN SPEACIL CIRCUMSTANCES WITH THE CONSENT OF ENGINEER–IN–CHARGE WELDED LAPPING CAN BE PERMITTED. IN THAT CASE, WELDED LAP LENGTH SHALL NOT BE LESS THAN 50 TIMES OF THE DIA OF BAR AND SPEACIAL APPROOVED ELECTRODES SHALL BE USED FOR WELDING OF Fe–500 GRADE BARS.
4. CONCRETING BELLOW WATER TO BE DONE BY USING TREMIE. CEMENT CONTENT FOR AS/SCHEDULE OF CONCRETE SHALL NOT BE LESS THAN 400 KG PER CUBIC METRE. SLUMP OF CONCRETE SHALL BE 150 MM TO 180 MM AND ALSO CONCRETE MAKING SHALL CONFORM TO TENDER SPECIFICATIONS
5. TOLERANCES PERMISSIBLE SHALL BE AS PER TENDER SPECIFICATIONS/ I.S SPECIFICATION
6. THE CONTRACTOR SHALL MAINTAIN ALL THE PILLING DATA ON DAY TO DAY BASIS AS PER THE PROFORMA GIVEN IN IS:2911 (PART 1/SEC–2) AND SUBMIT THESE DATA TO ARCHITECTS AT REGULAR INTERVALS.
7. THE CONTRACTOR SHOULD TAKE ADEQUATE CARE NOT TO DAMAGE ADJACENT STRUCTURES, IF ANY, WHILE PILING.
8. ALL BORES TO BE WASHED PROPERLY BEFORE CONCRETING BY MINIMUM 20 H.P PUMP.
9. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:

MEMBE	TOP	BOTTOM	SIDE
A. FOUNDATION BEAM & SLAB	50	50	50
B. COLUMN			40
C. FLOOR BEAM.	30	30	30
D. FLOOR SLAB.	20	20	20
E. PILE			50
F. PILECAP	75	75	75

Enlistment No. 011
R.S.M.

DR. SANTOSH KUMAR CHAKRABORTY
B.C.E. ME. (Soil Pounes)
M.D (Faundation Engineering)
S.T.E. I.B.S., I.S.M.F.E. (London)
Consulting Geotechnical Engineering
SIGNATURE OF GEO-TECHNICAL ENGINEER

STRUCTURAL CERTIFICATE

THE STRUCTURAL DESING AND DRAWING OF BOTH FOUNDATION AND CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME PER NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

SUBIR CHANDRA SANYAL
B. C. E., A. M. I., STRUCT. E. (I)
E. B. S. NO. 840, CLASS-I
E. S. E. NO. 007, CLASS-I
RAJPUR-SONARPUR MUNICIPALITY
SIGNATURE OF STRUCTURAL ENGINEER (E.B.S. NO. 007)

DECLARATION OF E.B.A.

I HAVE CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT BUILDING RULES 1990 AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITIONS INCLUDING THE ABUTTING ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE SITE AND NOT A TANK OR A FILLED UP LAND.

SARBANI MAJUMDAR
COA. REG. NO. 92/15458
EB.A NO. 055
UNDER RAJPUR SONARPUR MUNICIPALITY
SIGNATURE OF E.B.A.

Bijay Howlder
Dipankar Nakkar
As a Constituted Attorney of Netai Chandra Mondal & Others
SIGNATURE OF OWNER'S

SARBANI MAJUMDAR
COA. REG. NO. 92/15458
EB.A NO. 055
UNDER RAJPUR SONARPUR MUNICIPALITY
SIGNATURE OF E.B.A

PROJECT

STRUCTURAL DRAWING FOR A REVISED PLAN OF G + IV AND G+VII STORIED RESIDENTIAL BUILDING AT HOLDING NO.- 1601,KALITALA ROAD, WARD NO.- 29,R .S. DAG NO.- 879,880,883&937, R.S. KHATIAN NO -597&596,MOUZA- BARHANS FARTABAD ,J. L . NO - 47, P.S .- SONARPUR, DIST - 24PGS (S) UNDER RAJPUR - SONARPUR MUNICIPALITY. VIDE SANCTION PLAN NO. 297/CB/29/ 34 , DATED . 14 / 05 / 2015

OWNER'S NAME :- NITAI CHANDRA MONDAL & OTHERS

DRAWN - Sunjoy		SCALE:-1:100,1:25
DESIGNED -		DATE:- 12.06.2017
CHECKED - Sagarika		JOB NO.
APPROVED -		

Sanyalson Associates
Consultant Pvt. Ltd.
CONSULTANT PLANNER & STRUCTURAL ENGINEERS
P-157 - KANUNGO PARK. - KOLKATA-84

DWG NO.- 02/05	BLOCK - A	

APPROVAL OF S.A.E

OFFICE USE ONLY

Structural plan as submitted by the structural Engineer have been kept with Building Plan No. 96/Rev/09/29/43 Dated On- 06/07/2017 for record of the Rajpur-Sonarpur Municipality subject Verification No. deviation from the submitting structural plan should be marked 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 private properties and safety of human life during Construction

Sig. of Municipal Engineer.