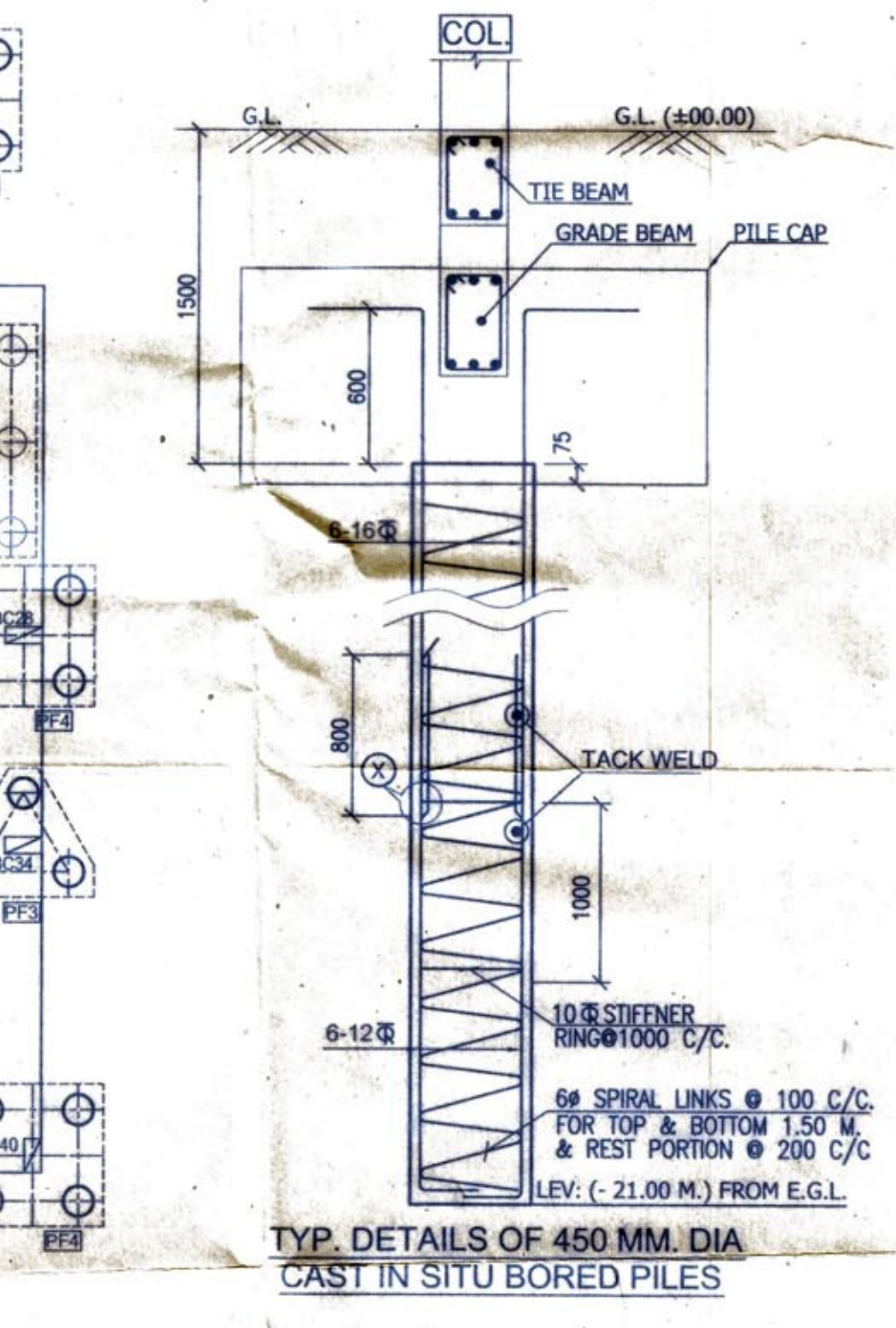
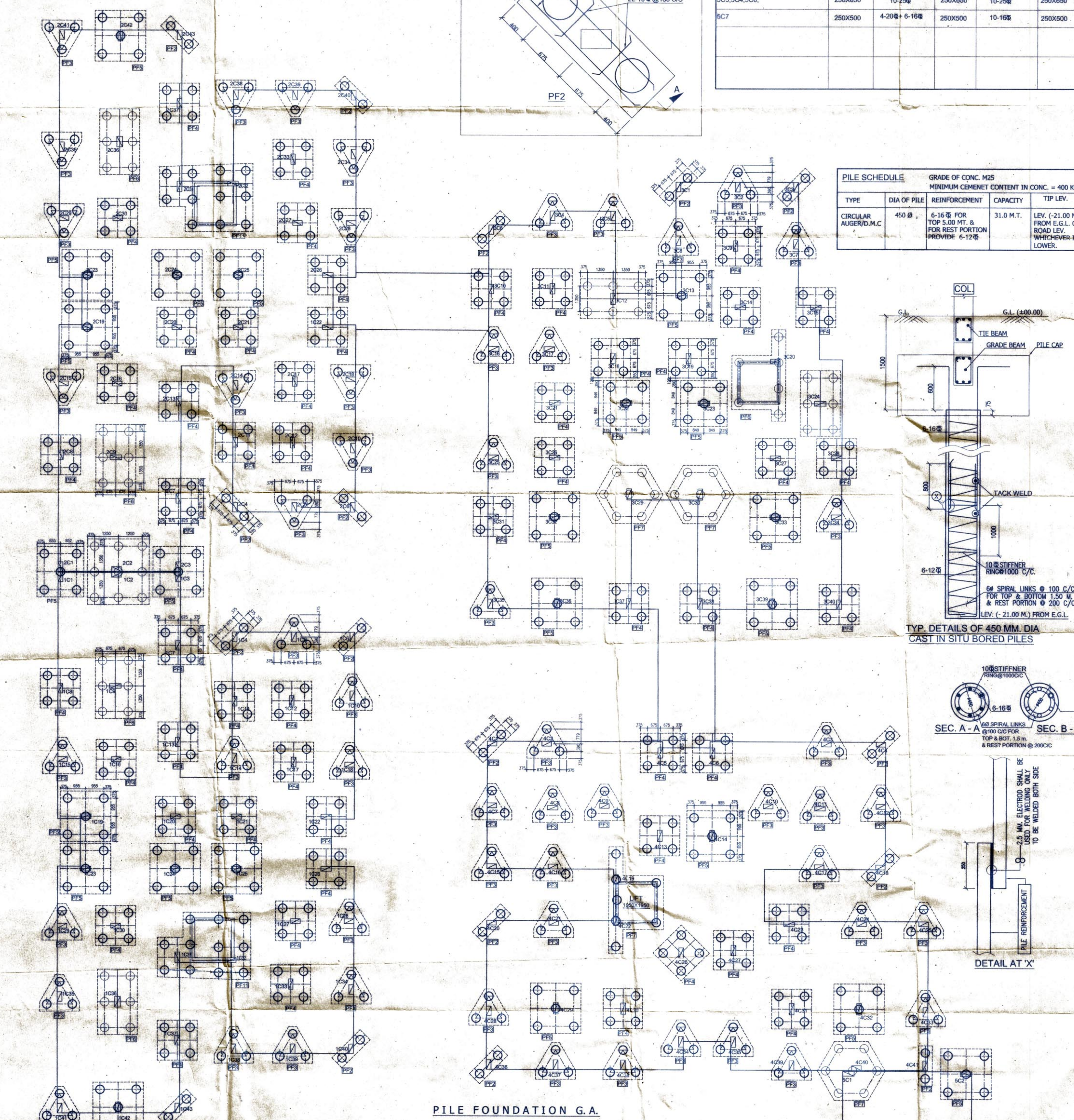


COLUMNS MKD.	FDN. LEVEL TO 3rd. FL. LEV.		3rd. FL. LEV. TO 5th. FL. LEV.		5th. FL. LEV. TO 7th. FL. LEV.		5th. FL. LEV. TO 7th. FL. LEV.		LINKS
	SIZE	STEEL	SIZE	STEEL	SIZE	STEEL	SIZE	STEEL	
1C1, 1C3, 1C4, 1C5, 3C6, 1C10, 1C14, 1C16, 1C18, 1C28, 1C29, 1C34, 1C35, 1C38, 1C39, 1C40, 1C41, 1C43, 2C1, 2C3, 2C4, 2C5, 2C6, 2C10, 2C14, 2C15, 2C18, 2C28, 2C29, 2C34, 2C35, 2C38, 2C39, 2C40, 2C41, 2C43	250X500	10-16#	250X500	8-16# + 2-12#	250X500	6-16# + 4-12#	250X500	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
1C7, 1C8, 1C11, 1C12, 1C13, 1C16, 1C17, 1C27, 1C28, 1C31, 1C32, 1C33, 1C37, 2C7, 2C8, 2C11, 2C12, 2C13, 2C16, 2C17, 2C27, 2C30, 2C31, 2C32, 2C33, 2C37	250X550	4-20# + 6-16#	250X550	10-16#	250X550	6-16# + 4-12#	250X550	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
1C8, 2C9	250X600	12-20#	250X600	6-20# + 6-16#	250X600	12-16#	250X600	6-16# + 6-12#	8# @ 150 C/C AS DETAIL
1C2, 1C19, 1C20, 1C21, 1C22, 1C23, 1C24, 1C26, 1C26, 1C42, 2C2, 2C19, 2C20, 2C21, 2C22, 2C23, 2C24, 2C25, 2C26, 2C42	250X600	6-20# + 6-16#	250X600	4-20# + 8-16#	250X600	12-16#	250X600	6-16# + 6-12#	8# @ 150 C/C AS DETAIL
1C36, 2C36	300X550	12-20#	250X550	4-20# + 6-16#	250X550	12-16#	250X550	6-16# + 6-12#	8# @ 150 C/C AS DETAIL
1C42, 2C42	250X575	6-20# + 6-16#	250X575	4-20# + 6-16#	250X575	12-16#	250X575	6-16# + 6-12#	8# @ 150 C/C AS DETAIL
3C1, 3C2, 3C3, 3C4, 3C5, 3C6, 3C7, 3C8, 3C10, 3C20, 3C25, 3C40	250X500	10-16#	250X500	8-16# + 2-12#	250X500	6-16# + 4-12#	250X500	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
3C9	225X550	4-20# + 6-16#	225X550	10-16#	225X550	6-16# + 4-12#	225X550	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
3C11, 3C15, 3C16, 3C18, 3C19, 3C25, 3C28, 3C31, 3C34, 3C37, 3C38	250X550	10-16#	250X550	8-16# + 2-12#	250X550	6-16# + 4-12#	250X550	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
3C12, 3C13, 3C22, 3C23, 3C24, 3C29, 3C30	250X600	12-20#	250X600	6-20# + 6-16#	250X600	12-16#	250X600	6-16# + 6-12#	8# @ 150 C/C AS DETAIL
3C14, 3C17, 3C21, 3C26, 3C27, 3C32	250X550	4-20# + 6-16#	250X550	10-16#	250X550	6-16# + 4-12#	250X550	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
4C1, 4C2, 4C3, 4C4, 4C7, 4C9, 4C10, 4C12, 4C15, 4C16, 4C17, 4C18, 4C19, 4C20, 4C21, 4C22, 4C24, 4C25, 4C28, 4C33, 4C34, 4C35, 4C36, 4C37, 4C38, 4C39, 4C40, 4C41	250X500	10-16#	250X500	8-16# + 2-12#	250X500	6-16# + 4-12#	250X500	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
4C5, 4C6, 4C23, 4C26, 4C27	250X550	4-20# + 6-16#	250X550	10-16#	250X550	8-16# + 2-12#	250X550	6-16# + 4-12#	8# @ 150 C/C AS DETAIL
4C13, 4C14, 4C29, 4C30, 4C31, 4C32	250X600	6-20# + 6-16#	250X600	4-20# + 6-16#	250X600	12-16#	250X600	6-16# + 6-12#	8# @ 150 C/C AS DETAIL
4C8, 4C11	225X550	6-16# + 4-20#	225X550	10-16#	225X550	6-16# + 4-12#	225X550	4-16# + 6-12#	8# @ 150 C/C AS DETAIL
5C1, 5C2, 5C5, 5C8, 5C9	250X600	12-20#	250X600	6-20# + 6-16#	250X600	12-16#	250X600	6-16# + 6-12#	8# @ 150 C/C AS DETAIL
5C3, 5C4, 5C6	250X600	10-20#	250X600	10-20#	250X600	6-25# + 4-20#	250X600	6-20# + 4-16#	8# @ 150 C/C AS DETAIL
5C7	250X500	4-20# + 6-16#	250X500	10-16#	250X500	6-16# + 4-12#	250X500	4-16# + 6-12#	8# @ 150 C/C AS DETAIL

PILE SCHEDULE		GRADE OF CONC. M25 MINIMUM CEMENT CONTENT IN CONC. = 400 KG/CUM.			
TYPE	DIA OF PILE	REINFORCEMENT	CAPACITY	TIP LEV.	C.O.L.
CIRCULAR AUGER/D.M.C	450 Ø	6-16# FOR TOP 5.00 MT. & REST PORTION PROVIDE 6-12#	31.0 M.T.	LEV. (-21.00 M.) FROM E.G.L. OR ROAD LEV. WHICH EVER IS LOWER.	LEV. (-1.50 M.)

LIFT SCHEDULE	
LIFT NO.	REINFORCEMENT
10	10# @ 150 C/C. B.F. 8# @ 200 C/C. B.F.
20	12# @ 150 C/C. B.F. 10# @ 150 C/C. B.F.
20	12# @ 150 C/C. B.F. 10# @ 150 C/C. B.F.



PILE NOTES:-

- ALL DIMENSIONS ARE IN MM. UNLESS NOTED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL DRAWINGS. FDN. IS DONE FOR (G+5).
- REINF. GRADE: Fc 500 & CONC. GRADE: M-25 (1:1:2)
- CAPACITY OF EACH PILE IS ASSUMED AS 31.00 M.T. AS THE SOIL INVESTIGATION REPORT. THIS IS TO BE CHECKED BY CONDUCTING PROUTHE LOAD TEST ON WORKING PILES AS PER IS:2011 (PART-4) 1985 THE RESULTS OF THESE TESTS ARE TO BE PLOTTED AND SUBMITTED TO ARCHITECTS OR CONSULTANTS FOR FURTHER ACTION.
- CARE SHOULD BE TAKEN WHILE LOWERING REINFORCEMENT CAGE IN TO THE BORE SUCH THAT PROPER ALIGNMENT OF BARS ARE MAINTAINED. AVOID LAP IN REINFORCING BARS IN SPECIAL 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 SPECIAL APPROVED ELECTRODES SHALL BE USED FOR WELDING OF (F-500) GRADE BARS.
- PERMISSIBLE TOLERANCES SHALL BE AS PER TENDER SPECIFICATIONS I.S. SPECIFICATION.
- THE CONTRACTOR SHALL MAINTAIN ALL THE PILING 20% MINIMUM 12 DAY BEFORE CASTING OF PILES. GIVEN IN IS: 2111 (PART 1) SEC-2) AND SUBMIT THESE DATAS TO ARCHITECTS/CONSULTANTS AT REGULAR INTERVALS.
- THE CONTRACTOR SHOULD TAKE ADEQUATE CARE NOT TO DAMAGE ADJACENT STRUCTURES, IF ANY, WHILE PILING.
- MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:-
MEMBER TOP BOT. SIDE
Ø PILE 50
- THE CONTRACTOR TO DETERMINE THE FINAL TERMINATION DEPTH DEPENDING UPON THE SET AS PER SIMPLEX FORMULA.
- ALL BLANK BORES TO BE FILLED WITH SILVER SAND.
- ALL BORES TO BE WASHED PROPERLY BEFORE CONCRETING BY MINIMUM 20 H.P. PUMP.
- SPECIFIC GRAVITY OF THE BENTONITE SHALL BE MAINTAINED AT 1.1 TO 1.2 BEFORE CASTING OF PILE.
- CONCRETING BELOW WATER TO BE DONE BY USING TRIME. CEMENT CONTENT FOR M-25 GRADE OF CONC. SHALL BE NOT LESS THAN 400 KG/CUM. AND SLUMP OF CONC. SHALL BE 150 TO 180 MM.
- FOR ANY AMBIGUITY DISCREPANCIES IN THIS DRAWING, IT SHOULD IMMEDIATELY BE BROUGHT TO THE NOTICE OF THE CONSULTANTS OFFICE BEFORE COMMENCING THE WORK.

CERTIFICATE OF ENGINEER

THIS IS TO CERTIFY THAT THE STR. DESIGN & DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA & CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECTS.

Raj Kumar Agrawal
Raj Kumar Agrawal
L.S.A. No. 38
88, ROYD STREET, CALCUTTA - 19

Sushil Kumar Agrawal
Sushil Kumar Agrawal
L.S.A. No. 38
88, ROYD STREET, CALCUTTA - 19

Narayan Agrawal
Narayan Agrawal
L.S.A. No. 38
88, ROYD STREET, CALCUTTA - 19

PROJECT:-
PROPOSED ADDITION & ALTERATION U/S 394 OF 8TH & 7TH FLOOR (25.0 M. HT.) OVER (G+V) STORED (18.9 M) RESIDENTIAL BUILDING AT HOLDING NO-113 BENERAS ROAD, SALKIA, HOWRAH-711106.
P.S. - GOLABARI WARD NO.-10, BOROUGH-11, L.R. K.H.NO-221, 222, 223, 224, 381, 382, 383, 384, L.R. DAG. NO-109, 109/165, 186, 188, 189, 189, 190, 183, 228, 229, MOUZA-GOLABARI, SANCTIONED VIED B. P. NO. B.R.C.-2514-15, DATE -21.06.2014

MUNICIPAL SANCTION DRAWING

DRAWN BY:- PRIBHAT NANDY
SCALE:- DRG. NO. 1:100, 50:25 1:325-154' C.S.-01
CKD. BY:- DATE: 15.04.18
P.G.

ARCHITECTS:-
RAJ AGRAWAL & ASSOCIATES.
88, ROYD STREET, CALCUTTA - 19

CONSULTANTS:-
PRITHWIRAJ GHOSH & ASSOCIATES
29 MICHAEL MANJUSUDHAN SARANI
KOLKATA-700023

SPACE FOR H.M.C. SEAL

RAJENDRAN MUNICIPAL CORPORATION
BUILDING DEPARTMENT

SHEET NO. _____

PILE FOUNDATION G.A.

NOTE:-
1. FOR COLUMN LAY-OUT FOLLOW ARCH. DWG.
2. ALL PILES & PILE CAPS ARE TO BE PLACED WITH RESPECT TO COL. CENTERS ONLY.

PARTY'S COPY



CORRECTED PALN
BRC No. 22/11-17, Ward No. 10...
Sub. Asst. Engineer
Bldg. Department
Howrah Municipal Corporation

3

APPLICANT HAS TO EXHIBIT AT A CONSPICUOUS PLACE:

PREMISES NO. :-
NAME OF THE LBA / LBS :-
NAME OF THE STRUCTURAL ENGR. :-
NAME OF THE GEO-TECHNICAL ENGINEER :-
NAME OF OWNER :-
NAME OF THE APPLICANT :-
BUILDING PERMIT :-

THE SANCTION IS VALID
UP TO 28/11/2017

APPROVED AS PER ORDER OF
COMMISSIONER Dt. 28/11/17
MMIC (Building) Dt. 28/11/17
Hon'ble Mayor Dt. 28/11/17

The applicant shall keep at the site or of plans and Specifications and shall exhibit at a conspicuous place the name of the Premises. The Name of the Architect or Licensed Building Surveyor, Structural Engineer and Geo Technical Engineer, Name of Owner and number and date of the Building Permit.

CONSTRUCTION SITE SHALL BE MAINTAINED TO PREVENT MOSQUITO BREEDING IN SUCH MANNER SO THAT ALL WATER COLLECTION & PARTICULARLY LIFT WELLS, VATS, BASEMENT CURING SITES, OPEN RECEPTACLES ETC. MUST BE EMPTIED COMPLETELY TWICE A WEEK.

Sanctioned Conditionally on undertaking from the owner that if any part of the building to be constructed falls within the alignment of HMC, the same will be demolished by the owner at his/her risk and for this the owner will not claim any compensation from HMC

No rain water pipe should be fixed or discharged on Road or Footpath. Drainage plan should be submitted at the Borough Assistant Engineer's Office and the sanction obtained before proceeding with the drainage work.

Plan for water connection arrangement SEM U. G. should be submitted at the Office of the Assistant Engineer of Borough and sanction to be obtained before proceeding with the work of Water Supply. Any deviation may lead to disconnection / demolition.

Structural plan and design calculation as submitted by the structural engineer have been kept with B.P. No. 22/11-17 for record of the Howrah Municipal Corporation without verification. No deviation from the submitted structural plan should be made 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 and private properties and safety of Human Life during construction.

Executive Engineer
Building Department
Howrah Municipal Corporation

Additional 2 floors over
Sanctioned building
Approved by order of
Commissioner Dt. 28/11/17
Hon'ble Mayor Dt. 28/11/17

H.M.C. or its men / Officials / agents are not responsible for the Structural Stability.

Sanctioned subject to demolition of existing structure to provide open space as per plan before construction is started.

Before starting any Construction the site must conform with the plans sanctioned and all the conditions as proposed in the plan should be fulfilled.

The validity of the written permission to execute the work is subject to the above conditions.

The Building Materials necessary for construction should conform to standard specified in the National Building Code of India.

Non Commencement of Erection: Re-Erection within Two Years will Require Fresh Application for Sanction.

Design of all structural Members including that of the foundation should conform to Standards specified in the National Building Code of India.

RESIDENTIAL BUILDING

DEVIATION WOULD MEAN DEMOLITION

Necessary steps should be taken for the safety of the lives of the adjoining public and private properties during construction. Also to avoid pollution as per WBPCB Guidelines in VAGUE.