

**CHART FOR PILE CAP DEPTH**

PILE MKD	DIA OF PILE	LEGEND OF PILE	TERMINATION LENGTH	ULTIMATE CAPACITY
BP	750 Ø		25.0 M.	250 TON
BP1	500 Ø		25.0 M.	100 TON

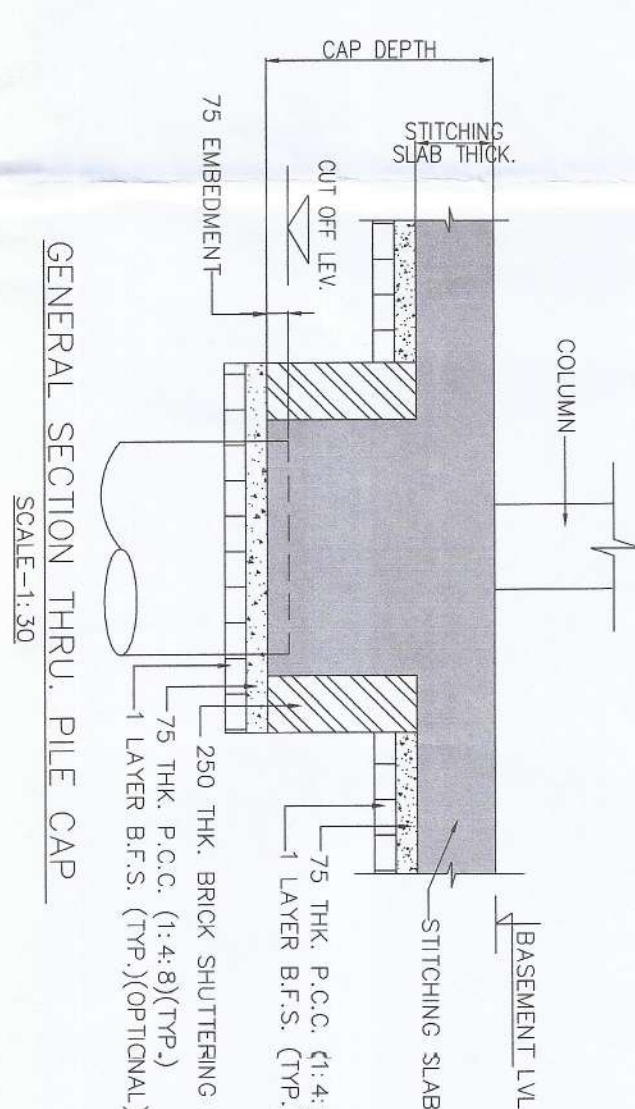
- TEST PILE INSTALLATION (BORED CAST-IN-SITU PILE)**
- ALL REINFORCEMENT IN PILE SHAFTS SHALL BE HIGH TENSILE STRENGTH COOLD TWISTED DEFORMED BARS OF GRADE Fe 500 CONFORMING TO I.S. 1786-2008.
  - CONCRETE MIX IN PILE SHALL BE M30 WITH MINIMUM CEMENT CONTENT OF 400 KG/CM<sup>3</sup> OF CONCRETE AND SLUMP BETWEEN 150 TO 180MM. FOR A TESTING ON 28TH DAY. HOWEVER, FOR AN EARLY TESTING (21 DAYS) THE CONCRETE GRADE MAY BE ENHANCED TO M40 SO THAT ADEQUATE CONCRETE STRENGTH (M30) IS ACHIEVED ON 21ST DAY.
  - CLEAR COVER TO MAIN REIN. PILE 50 mm. (ROLLER TYPE COVER BLOCK TO BE USED)
  - ALL LAP JOINTS SHALL BE 50 X D AND TACK WELDED AS IN FIG-1(D=DIAM OF BAR)
  - CONTRACTOR SHALL NOTE THAT THE PILE CAPACITY, CUT-OFF LEVEL, AND TERMINATION LENGTHS SHOWN IN THIS DRAWING ARE TENTATIVE AND INDICATIVE ONLY. THIS MAY VARY AS PER SITE CONDITIONS.
  - THE PILE HEAD SHALL BE NEATLY FORMED TO THE REQUIRED DIA. AT THE CUT OFF LEVEL. PLS. NOTE THAT TESTING TO BE DONE AT THE CUT OFF LEVEL ONLY.(CUT OFF LEVEL :- AS PER SCHEDULE) REFER FIG-2.
  - ROTARY METHOD OF PILE BORING SHALL BE ADOPTED. HOWEVER THIS IS TO BE CONFIRMED FROM SOIL INVESTIGATOR ALSO.
  - SOIL SAMPLES AT EVERY 3.0M AND CHANGE OF LAYER, TO BE RECORDED AND KEPT FOR INSPECTION.
  - INITIAL TEST PILE TO BE DONE THE FAILURE OF PILE/ARRANGEMENT FOR MINIMUM 3 TIMES OF THE SAFE LOAD NEED TO BE KEPT. THE CONTRACTOR SHALL KEEP ADEQUATE MARGIN IN KENTLEDGE LOADING & HYDRAULIC JACK TO TEST THE PILE TILL FAILURE(MINIMUM 25% MORE THAN TEST LOAD)
  - ADEQUATE KENTLEDGE ARRANGEMENT TO BE MADE
  - THE BORE HOLE SHALL BE PROTECTED BY CIRCULATING DRILLING FLUID.
  - IF SP. GRAVITY 1.03 TO 1.1 & IN NO CASE IT SHOULD EXCEED 1.12 CONFORMING TO IS-2911, AND ALSO PROPERLY BENTONITE SOLUTION TO BE USED FOR SOIL STABILIZATION. SOIL INVESTIGATOR MAY BE CONTACTED FOR THIS ISSUE.
  - 300 THK. COMPACTED GRAVEL BED TO BE PREPARED AT TERMINATION LEVEL TO ENSURE PROPER ENDEARBING.
  - SP TO BE DONE FOR EVERY 300M FOR LAST 2M FROM TL.

**CHART FOR PILE CAP DEPTH**

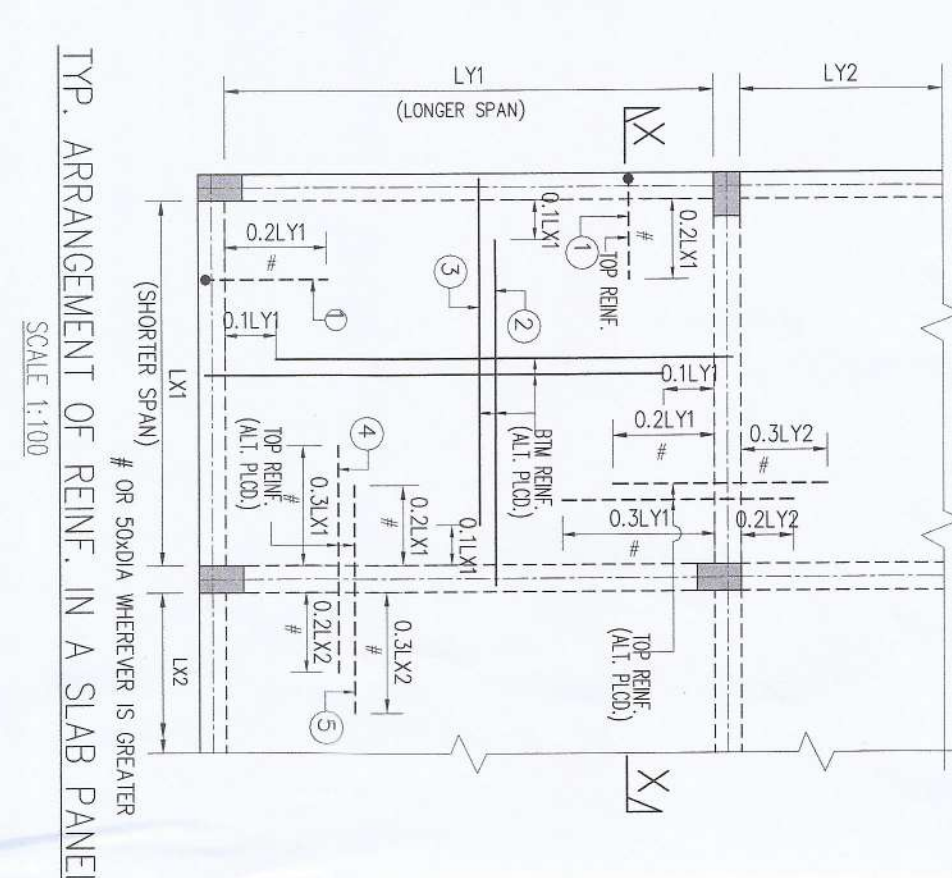
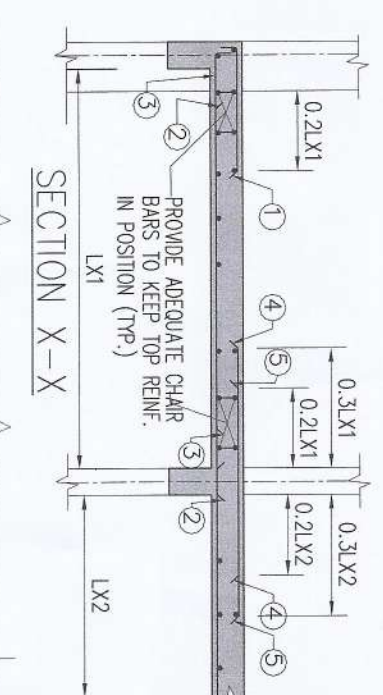
PILE MKD	DIA OF PILE	LEGEND OF PILE	TERMINATION LENGTH	ULTIMATE CAPACITY
BP	750 Ø		25.0 M.	250 TON
BP1	500 Ø		25.0 M.	100 TON

**CHART FOR PILE CAP DEPTH**

PILE MKD	DIA OF PILE	LEGEND OF PILE	TERMINATION LENGTH	ULTIMATE CAPACITY
BP	750 Ø		25.0 M.	250 TON
BP1	500 Ø		25.0 M.	100 TON



- NOTES**
- SUPPORT REINFORCEMENT IN SLAB FOR ADJACENT PANELS :- PROVIDE GREATER OF THE TWO (IE REIN. WITH LESSER SPACING)
  - SUPPORT REINFORCEMENT IN SLAB SHALL BE 0.2L / 0.3L OR DEVELOPMENT LENGTH, WHICHEVER IS GREATER FROM THE FACE OF SUPPORT.
  - DISTRIBUTION STIFFENING BARS TO BE SHOWN IN DRAWING FOR CLARITY.
  - PROVIDE ADEQUATE CHAIR BARS TO BE KEEP TOP REIN.



**SCHEDULE OF FLOOR BEAMS [M-30] FOR BUILDING PART**

BEAM SIZE	END SUPPT	MID SPAN	UP TO 0.3L FROM SUPPT	MID SPAN REST PART	REMARKS
(200x600)	2-20T	2-20T	2-20T	2-20T+	10T 2L Ø 100 C/C
(300x600)	3-16T+	3-16T	3-16T	3-16T+	10T 2L Ø 150 C/C
(200x500)	2-20T	2-20T	2-20T	2-20T	10T 2L Ø 150 C/C

**SCHEDULE OF SLABS**

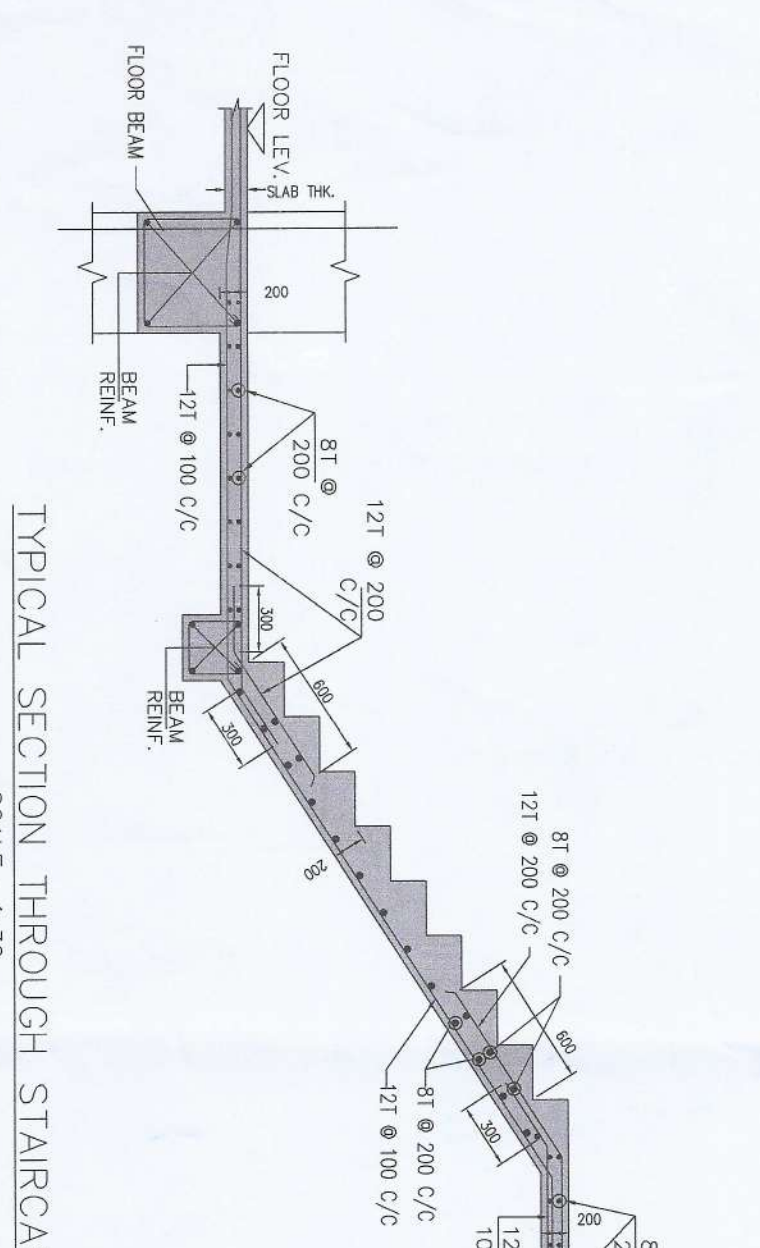
SLAB THICKNESS	SUPPORT DIR.	MID SPAN DIR.	LONGER DIR.	MID SPAN DIR.
150 THK.	8T Ø 100 C/C	8T Ø 150 C/C	8T Ø 200 C/C	8T Ø 200 C/C
125 THK.	8T Ø 175 C/C	8T Ø 150 C/C	8T Ø 200 C/C	8T Ø 200 C/C
200 THK.	10T Ø 100 C/C	10T Ø 125 C/C	10T Ø 150 C/C	10T Ø 200 C/C

**SCHEDULE OF FLOOR BEAMS [M-30] FOR EXTEND PART**

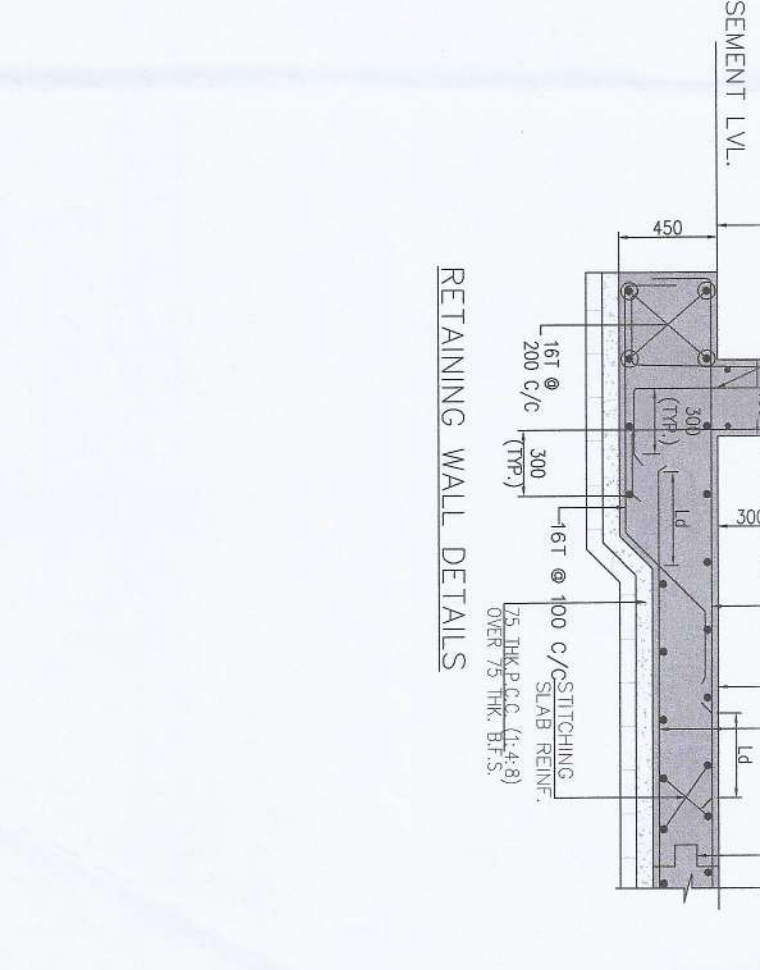
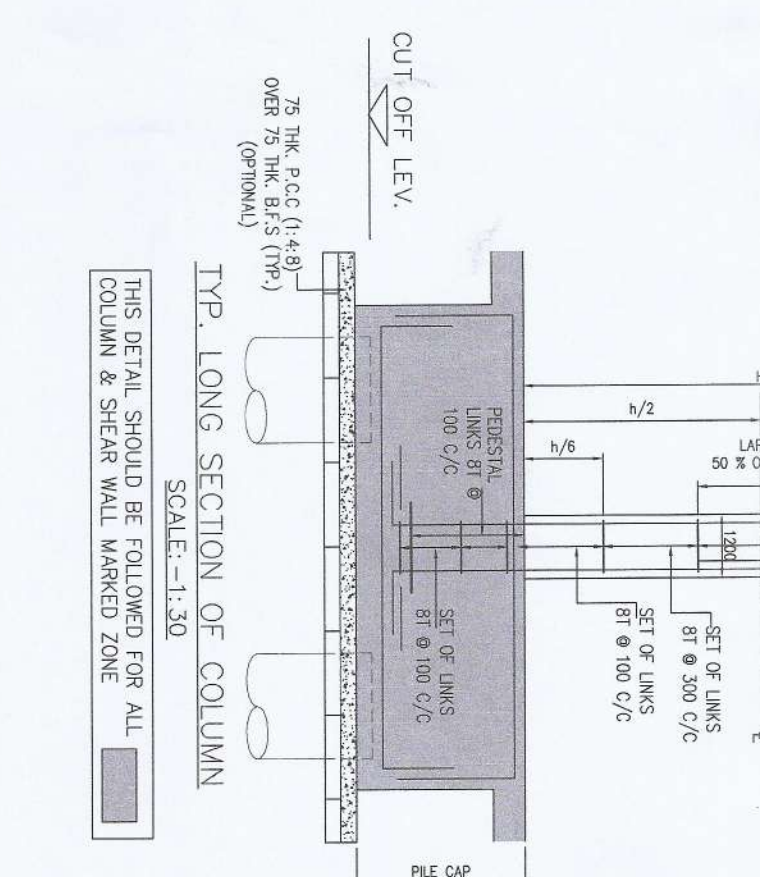
BEAM SIZE	END SUPPT	MID SPAN	UP TO 0.3L FROM SUPPT	MID SPAN REST PART	REMARKS
(200x600)	2-20T+	2-20T	2-20T+	2-20T+	10T 2L Ø 200 C/C
(300x600)	3-20T+	3-20T	3-20T+	3-20T+	10T 2L Ø 200 C/C
(200x500)	2-20T+	2-20T	2-20T	2-20T	10T 2L Ø 150 C/C

**SCHEDULE OF FLOOR BEAMS [M-30] FOR BUILDING PART**

BEAM SIZE	END SUPPT	MID SPAN	UP TO 0.3L FROM SUPPT	MID SPAN REST PART	REMARKS
(200x600)	2-20T	2-20T	2-20T	2-20T+	10T 2L Ø 100 C/C
(300x600)	3-16T+	3-16T	3-16T	3-16T+	10T 2L Ø 150 C/C
(200x500)	2-20T	2-20T	2-20T	2-20T	10T 2L Ø 150 C/C



**Checked**  
Gokul Prasad, Phd  
Principal Engineer  
of Consultant Engg  
Kolkata-700016



**Civil and Structural Consultant:**  
M N CONSULTANTS (Pvt) Ltd.  
M N U CONSULTANTS (Pvt). Ltd.  
1516, Bidanar Main Road,  
Kolkata - 700 107  
E-mail: mncivil2008@gmail.com

**PROJECT:**  
PROPOSED B+G+25 STORED RESIDENTIAL BUILDING AT PREDRES NO-145,  
KESSEY ROAD, HOLDING NO-7A, CHANDRANILAS, CHANDRANILAS HOUSING SOCIETY,  
328, 329, 502,503,504,505,506,507,508,509,521, LK KHAYAN NO.2102, P.S.  
LAKE TOWN, UNDER SOUTH DWM DWM MUNICIPALITY, WARD NO.-20, DIST.-  
24 PGS (N)

**DATE:** REIN. DETAILS  
SCALE: AS SHOWN

**Signature of Structural Reviewer:** [Signature]  
**Signature of Structural Engineer:** [Signature]  
**Signature of Architect:** [Signature]





2020-2021

1. This sanction is valid for a period of three years from the date of sanction and may be renewed for a future period of two years or for period as may be provided in the West Bengal Municipal Act, 1953.
2. Sanction is granted on the basis of statements, representations, disclosures and declarations made and information supplied by the applicant. In case it is discovered at a later stage that false or misleading statements were made and that any disclosure/declaration was incomplete and/or was not full and complete the sanction may be revoked without prejudice to other action that may be taken by the Municipality under Civil and Criminal Law.
3. Before commencing construction the site must confirm to the sanctioned site plan. The applicant must implement all proposals and representations made in the Plan in full.
4. No deviations may be made from the sanctioned plan and if made the same shall be summarily demolished and the cost of such demolition recovered from the applicant/owner.
5. The onus of ensuring the correctness of plan lies on the applicant/owner.

Sanctioned provisionally  
No objection certificate is to be obtained from the Airport Authority of India before commencing construction.

No rainwater pipe/spout should be so fixed as to discharge rainwater on road/footpath/outside the premises.

Drainage plan for building being constructed in an area served by sewerage network, will have to be prepared separately according to National Building Code and sanction for the same obtained before commencing construction of drains.

Within one month after the completion of the erection of a building or the completion of any work the owner of this building must submit a notice of completion to the Municipality in compliance with provisions contained in Rule 32 of the West Bengal Building Rules, 2007. Failure to do so will attract severe penal measure. No person may occupy or permit to be occupied a building erected or re-erected or altered under the West Bengal Municipal Act, 1953 without obtaining an Occupancy Certificate issued by this Municipality.

**PHASE-I**

**SANCTIONED Provisionally up to ground floor roof casting Final Sanction will be accorded in Phase-II after Completion of ground floor RCC Structure as per Provisionally sanctioned plan in Phase-I**

K.C. 20/3/23

Chairperson  
SOUTH DUM DUM MUNICIPALITY

DATE.....

20/3/23