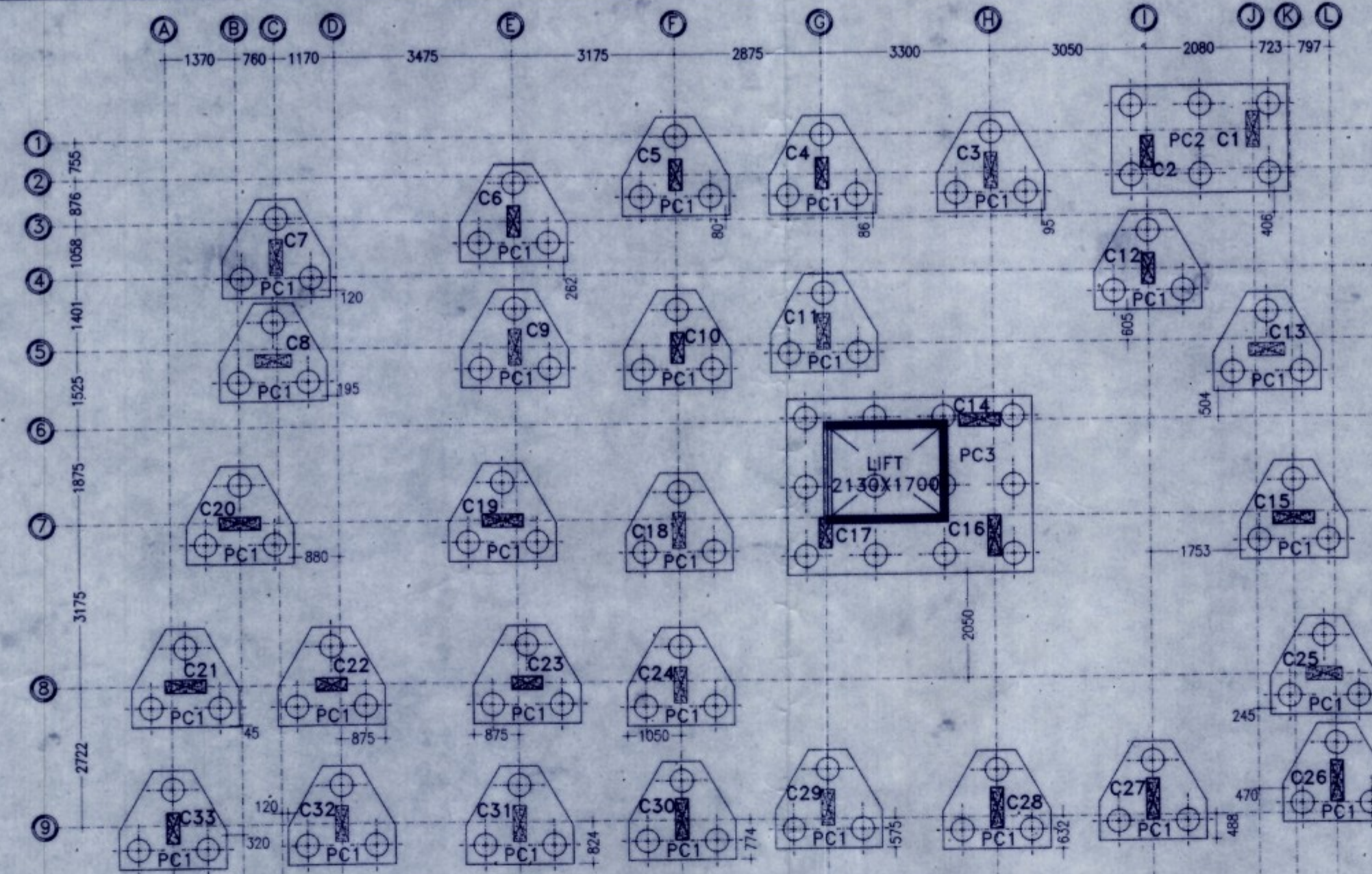


1 COLUMN LAYOUT PLAN  
SCALE: 1:100

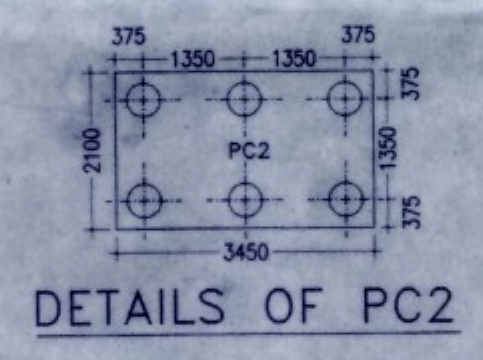


2 PILE LAYOUT PLAN  
SCALE: 1:100

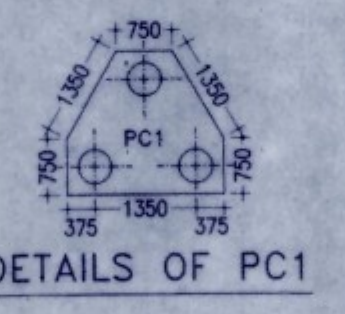
PILE CAP MARKED	NAME OF COLUMN	CAP SIZE		THICKNESS (mm)	BOTTOM REINFORCEMENT(A)		TOP REINFORCEMENT(B)		Ø LINK(C) (BOTH DIRECTION)	SIDE FACE REINFORCEMENT (D)	CUT OFF LEV.
		LENGTH (mm)	WIDTH (mm)		ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION	ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION			
PC1(3P)	C3,C4,C5,C6,C7,C8,C9, C10,C12,C13,C18,C19, C20,C21,C22,C23,C24, C25,C26,C27,C28,C29, C30,C31,C32,C33	SEE LAYOUT PLAN		1200	20 Ø110 C/C	20 Ø110 C/C	20 Ø110 C/C	20 Ø110 C/C	12 Ø100 C/C	16 Ø150 C/C	(-) 1.7 m
PC2(6P)	C1+C2	2100	3450	1200	20 Ø150 C/C	20 Ø150 C/C	16 Ø150 C/C	16 Ø150 C/C	12 Ø100 C/C	16 Ø150 C/C	(-) 1.7 m
PC3(12P)	C14+C16+ C17+LIFT.	3450	4800	1200	20 Ø150 C/C	20 Ø150 C/C	16 Ø150 C/C	16 Ø150 C/C	12 Ø100 C/C	16 Ø150 C/C	(-) 1.7 m

TABLE NO.-01 (SCHEDULE OF COLUMNS)

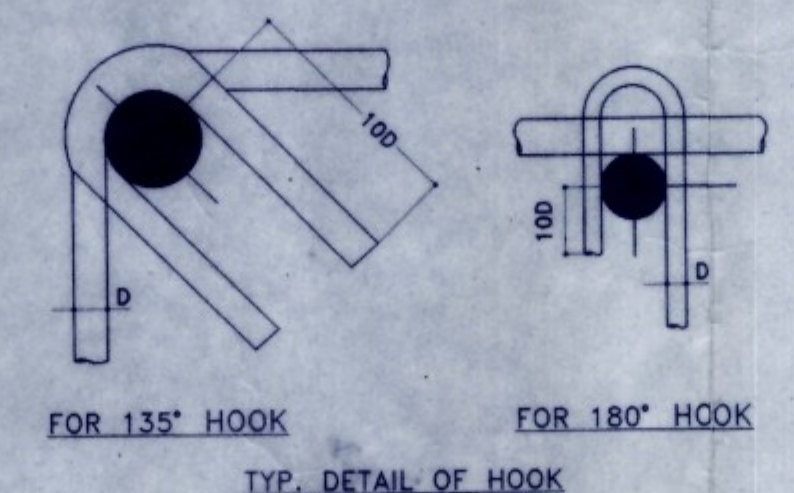
COLUMN MARKED	NOS. OF COLUMN SIZE (mm x mm)	FOUNDATION TO 2ND FLOOR			3RD FLOOR 5TH FLOOR			6TH FLOOR TO ROOF			TIE	SHAPE OF STIRRUPS
		LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT	LONGITUDINAL REINFORCEMENT		
C14,C15,C16, C19,C20,C21	06	800x250	800x250	800x250	800x250	800x250	800x250	800x250	800x250	NEAR JUNCTION (UPTO 100) LENGTH LINKS: 1150/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 1500/C (4 NOS. CLOSED LINK PER SET)	1-2	1-2
C26,C27, C28,C30	04	800x250	800x250	800x250	800x250	800x250	800x250	800x250	800x250	NEAR JUNCTION (UPTO 100) LENGTH LINKS: 1150/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 1500/C (4 NOS. CLOSED LINK PER SET)	1-2	1-2
C1,C3,C7,C8, C9,C11,C13	07	700x250	700x250	700x250	700x250	700x250	700x250	700x250	700x250	NEAR JUNCTION (UPTO 100) LENGTH LINKS: 1150/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 1500/C (4 NOS. CLOSED LINK PER SET)	1-2	1-2
C18,C24,C25, C29,C31,C32	06	700x250	700x250	700x250	700x250	700x250	700x250	700x250	700x250	NEAR JUNCTION (UPTO 100) LENGTH LINKS: 1150/C (4 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 1500/C (4 NOS. CLOSED LINK PER SET)	1-2	1-2
C2,C4,C5,C6,C10, C12,C17,C22,C23, C33	10	600x250	600x250	600x250	600x250	600x250	600x250	600x250	600x250	NEAR JUNCTION (UPTO 100) LENGTH LINKS: 1150/C (3 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 1500/C (3 NOS. CLOSED LINK PER SET)	1-2	1-2



DETAILS OF PC2



DETAILS OF PC1



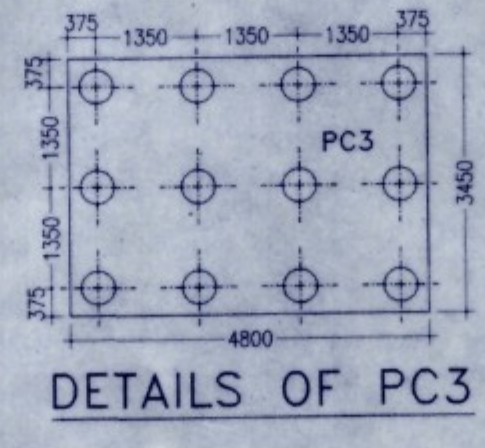
TYP. DETAIL OF HOOK

4 TYPICAL DETAILS OF PILE CAP-PC1 (SECTION)  
SCALE: 1:50

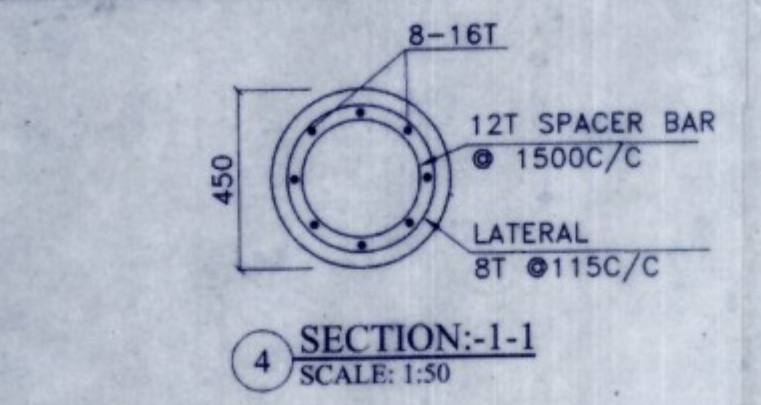
TABLE NO.-05 (SCHEDULE OF PILE)

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	
	450 DIA	EL. (-) 1.7 EXCEPT PILES UNDER LIFT PIT	18	8-16R (ALTH)	52	-	-	CUT OFF LEVEL IS (-) 3.35 M LEVEL UNDER LIFT PIT PILE

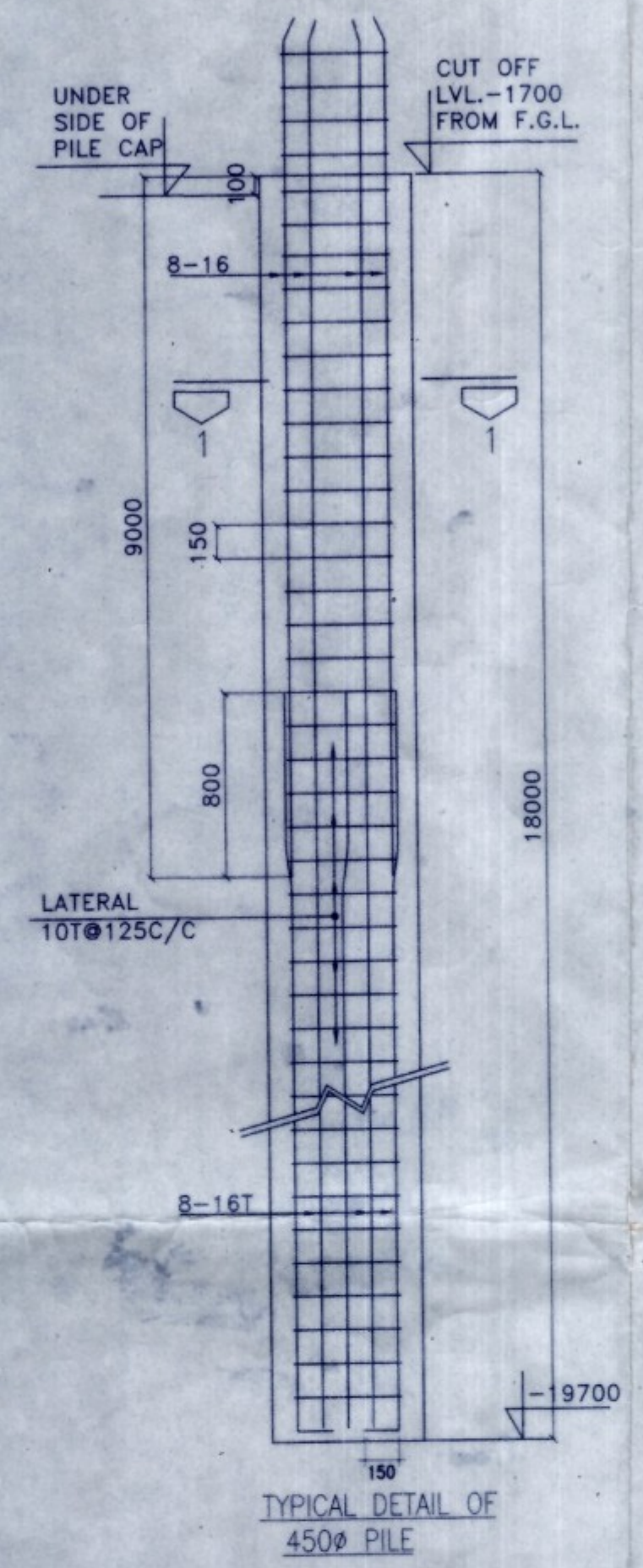
NOTE:- ABOVE ARE THE PILE DETAILS ADOPTED. THESE MUST BE ENSURED AT SITE BY PILE LOAD TEST.



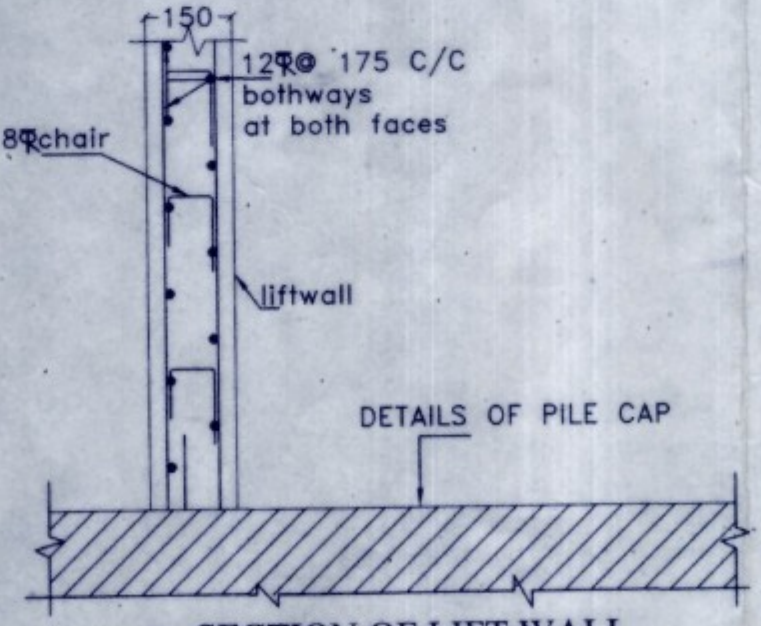
DETAILS OF PC3



4 SECTION -1-1  
SCALE: 1:50



3 TYPICAL DETAILS OF 450 DIA PILE  
SCALE: N.T.S



9 SECTION OF LIFT WALL  
SCALE: 1:25

PROJECT NAME:-  
STRUCTURAL DRAWING OF PROPOSED (G+8) NINE STORED RESIDENTIAL BUILDING MR.SURESH RUIDAS, S/O SANATAN RUIDAS,(DEVELOPED BY LOKENATH DEVELOPERS) R.S. PLOT NO-43/67 L.R. PLOT-187, J.L NO-111,R.S KHATIAN NO-59 L.R. KHATIAN NO-1493, MOUZA-TETIKHOLA, P.S-NEW TOWNSHIP, DIST.-PASHCHIM BARDHAMAN.

- NOTES :-
- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE STATED.
  - ±0.00 LVL. REFERS TO E.G.L
  - CLEAR CONCRETE COVER TO MAIN REINFORCEMENT BARS SHALL BE AS FOLLOWS :-
 

	TOP	BOTTOM	SIDE
a) PILE -	50 mm	50 mm	50 mm
b) PILE CAP -	75 mm	75 mm	75 mm
  - ALL PILES SHALL BE BORED CAST-IN-SITU PILES, DMC METHOD SHALL BE ADOPTED BY CIRCULATING BENTONITE SLURRY OF SP GRAVITY 1.1 TO 1.2 gm/cc.
  - ALL REINFORCEMENT IN PILE SHALL BE HIGH TENSILE STRENGTH COLD TWISTED DEFORMED BAR CONFORMING TO IS-1786-2008 OF GRADE Fe500.
  - CONCRETE GRADE SHALL BE M25 WITH MINIMUM CEMENT CONTENT OF 400kg/M<sup>3</sup> OF CONCRETE & SLUMP BETWEEN 150mm TO 180mm.
  - CONCRETING SHALL BE DONE BY SUITABLE TREMIE ONLY & IT SHOULD BE REACHED WITHIN 500 TO 750mm FROM BOTTOM LEVEL OF BORE HOLE.
  - CONCRETE SHALL BE DONE AS SOON AS POSSIBLE AFTER COMPLETING THE PILE BORE. THE BORE HOLE FULL OF DRILLING MUD SHOULD NOT BE LEFT UNCONCRETED FOR MORE THAN 12 TO 24 HOURS DEPENDING UPON THE STABILITY OF BORE HOLES.
  - FOR PLACING CONCRETE IN PILE BORE A FUNNEL SHOULD BE USED & METHOD OF CONCRETE SHOULD BE SUCH THAT THE ENTIRE VOLUME OF THE PILE BORE IS FILLED UP WITHOUT THE FORMATION OF VOIDS &/ FOR MIXING OF SOIL & DRILLING MUD IN CONCRETE.
  - THE PILE HEADS SHALL PROJECT IN TO THE PILE CAP 75mm. THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA.
  - 80mm ROLLER TYPE COVER BLOCK WITH MINIMUM THICKNESS 32mm SHALL BE USED.
  - ALL LAP JOINTS AND DEVELOPMENT LENGTHS SHALL BE 50xDIA & TACK WELDED.
  - INITIAL PILE LOAD TEST AND ONE NUMBER ROUTINE LOAD TEST SHALL BE PERFORMED AS PER IS CODE FOR EVERY 100 PILES.
  - SPACER BAR OF DIA T16 ARE TO BE PROVIDED AT AN INTERVAL OF 1500MM C/C TO WELDED.
  - WASHING TO BE DONE WITH 20HP PUMP/WACEL AS PER SITE REQUIREMENT.
  - BENTONITE TO BE USED AS PER IS CODE.
  - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
  - THIS DRAWING SHOULD BE READ ALONG WITH THE CORRESPONDING ARCHITECTURAL DRAWING.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT SURVEY DRAWING.
  - PILE CAPACITY OF SOIL & OTHER NECESSARY SUGGESTION HAS BEEN CONSIDERED AS PER SOIL REPORT.

SIGNATURE OF STRUCTURAL ENGINEER:-

*Signature*  
H. S. N. MUKHERJEE  
Structural Engineer  
Lic. No. - L.B.PM/13/AMC/DMC/DP/165  
DCE, B.TECH, I.I.T.S. Durgapur-16  
Contact No. - 933323331

VEITED BY:-

*Signature*  
L.R. S. N. MUKHERJEE  
Professor  
CIVIL ENGINEERING DEPT.  
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KOLKATA-700032, (W.B)

Approved Plan No. 8/.....on Meeting  
No. 11/2019-22, Date 11/12/2019  
Valid upto 11/05/2024  
Molika Lohar  
Pradhan 12/05/22  
Jemua Gram Panchaya.

TITLE:-  
COLUMN & FOOTING LAYOUT PLAN, SCHEDULE OF COLUMN & FOOTING, DETAILS OF LIFT WALL, SECTIONAL DETAILS OF PILE, DETAILS OF PILE CAP, DETAILS OF HOOK.

SIGNATURE OF ARCHITECT:-  
*Signature*  
VAISHNAVI MAKARAND THALVE  
CONSULTING ARCHITECT  
CA/2018/101108

SIGNATURE OF GEO-TECHNICAL ENGINEER:-  
*Signature*  
M. MOJIB  
Civil Geotechnical Engineer  
CE, MIGS - LM4278  
Lic. No. - LBPNT/2/AMC  
G.I.D.S., Durgapur - 16

SIGNATURE OF DEVELOPER/OWNER:-  
*Signature*  
LOKENATH DEVELOPERS  
Suresh Ruidas  
Partner

SIGNATURE OF STRUCTURAL ENGINEER:-  
*Signature*  
H. S. N. MUKHERJEE



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SCALE : 1:100, 1:50, 1:25, N.T.S  
REV-00  
DATE : 30.01.2021  
SHEET NO:- GIDS/STRU/P&R/01-02

