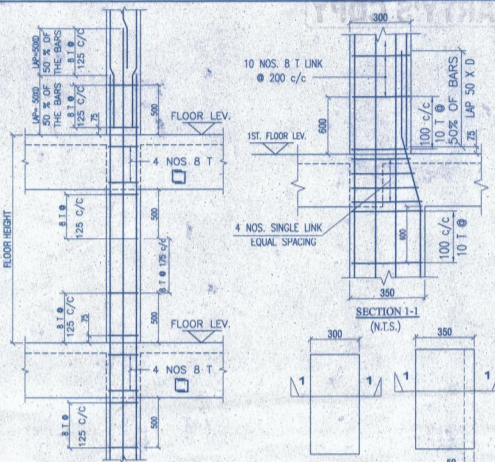
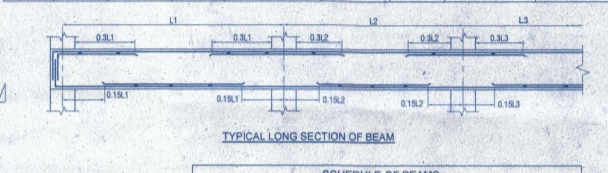


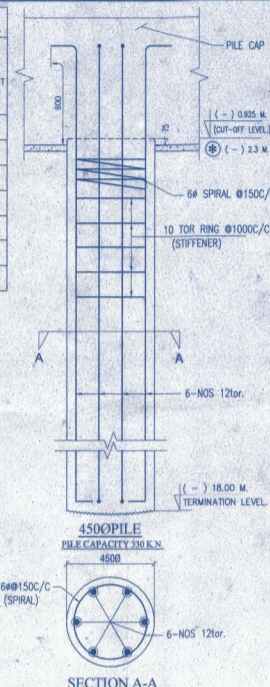
COLUMN MKD	SIZE	MAIN REINFORCEMENT		MAIN REINFORCEMENT		
		FOUNDATION TO 1ST FL.	SIZE	1ST FLOOR TO 2ND FLOOR	2ND FLOOR TO 3RD FLOOR	3RD FLOOR TO ROOF
C1,C3,C4,C22	300 X 300	10-16TOR	300 X 300	6-16TOR + 4-12TOR	4-16TOR + 6-12TOR	4-16TOR + 6-12TOR
C6,C11,C16,C14	300 X 300	4-20TOR + 6-16TOR	300 X 300	10-16TOR + 4-12TOR	6-16TOR + 4-12TOR	6-16TOR + 4-12TOR
C5,C13	300 X 300	10-20TOR	300 X 300	8-20TOR + 4-16TOR	4-20TOR + 6-16TOR	10-16TOR
C9,C23	300 X 300	12-20TOR	300 X 300	8-20TOR + 4-16TOR	4-20TOR + 6-16TOR	12-16TOR
C12	300 X 300	12-20TOR	300 X 300	8-20TOR + 4-16TOR	4-20TOR + 6-16TOR	8-16TOR
C18	300 X 300	10-20TOR	300 X 300	6-20TOR + 4-16TOR	4-20TOR + 6-16TOR	10-16TOR
C21	300 X 300	4-20TOR + 4-20TOR	300 X 300	4-20TOR + 4-16TOR	6-20TOR + 4-16TOR	4-16TOR
C11	300 X 300	4-20TOR + 4-20TOR	300 X 300	12-20TOR	8-20TOR + 4-16TOR	4-20TOR + 6-16TOR
C14,C20	300 X 300	4-20TOR + 4-20TOR	300 X 300	12-20TOR	8-20TOR + 4-16TOR	4-20TOR + 6-16TOR
C8	300 X 300	8-20TOR + 8-20TOR	300 X 300	8-20TOR + 4-16TOR	4-20TOR + 6-16TOR	8-16TOR
C17	300 X 300	8-20TOR + 8-20TOR	300 X 300	8-20TOR + 4-16TOR	4-20TOR + 6-16TOR	8-16TOR
C10	300 X 1200	8-20TOR + 8-20TOR	300 X 1200	4-20TOR + 4-16TOR	18-16TOR	10-16TOR + 8-16TOR
C19	300 X 1200	20-20TOR	300 X 1200	12-20TOR + 8-16TOR	12-16TOR	16-16TOR
C7	300 X 1625	14-20TOR + 12-16TOR	300 X 1625	8-20TOR + 8-16TOR	28-16TOR	14-16TOR + 12-12TOR



PILE CAP MKD.	DEPTH OF PILE CAP (mm)	CAP REINFORCEMENT				BURSTING REINFORCEMENT (SKIN)		
		LONGER BAR	SHORT BAR	STIRRUPS	STIRRUPS			
3PC	750	6-16TOR	4-12TOR	4L-10TOR@200C/C	6-16TOR	4-12TOR	4L-10TOR@200C/C	(4+4)12TOR
4PC	1100	15-20TOR	8-12TOR	—	15-20TOR	8-12TOR	—	(9+6)12TOR
5PC	1100	15-20TOR	8-12TOR	6L-10TOR@150C/C	21-20TOR	11-12TOR	—	(9+6)12TOR
6PC	1100	15-20TOR	8-12TOR	6L-10TOR@150C/C	25-20TOR	13-12TOR	—	(9+6)12TOR
7PC	1500	29-20TOR	15-12TOR	—	33-20TOR	17-12TOR	—	(9+6)12TOR
12PC	1800	39-25TOR	39-25TOR	6L-10TOR@150C/C	59-25TOR	30-12TOR	—	(11+11)12TOR
12PCA	1800	25-25TOR	25-25TOR	6L-10TOR@150C/C	79-20TOR	40-12TOR	—	(11+11)12TOR

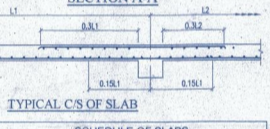
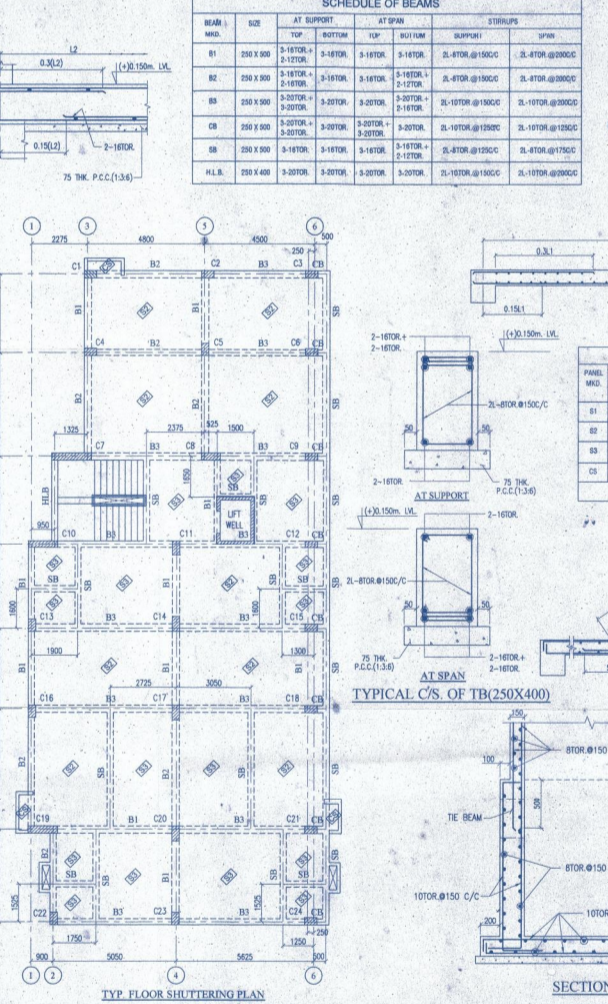
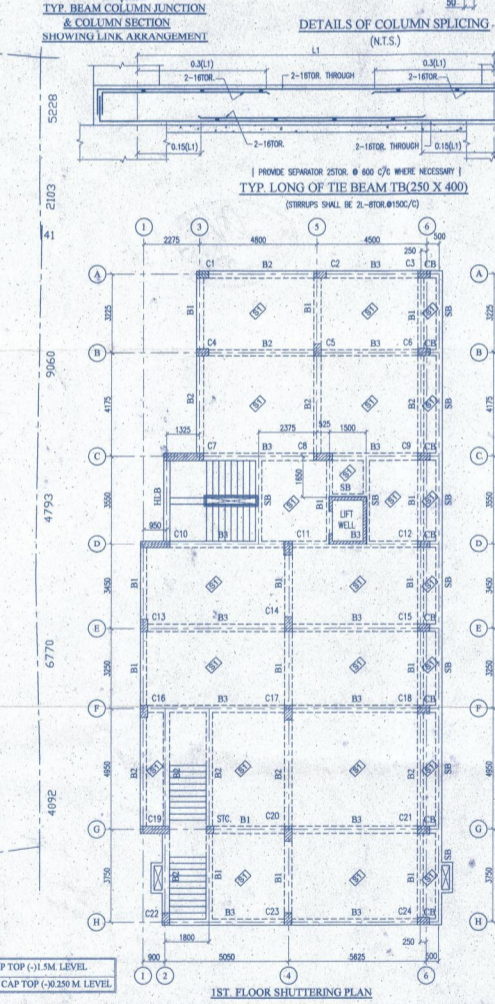
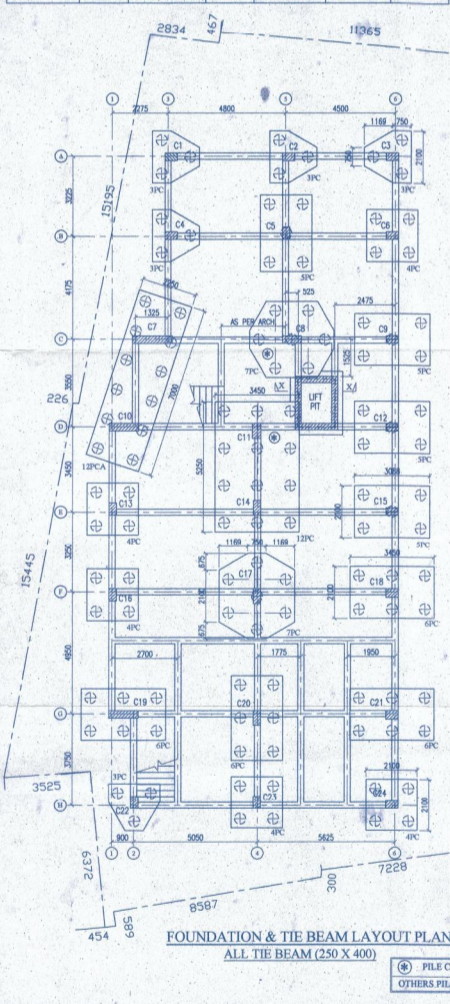


BEAM MKD.	SIZE	AT SUPPORT		AT SPAN		STIRRUPS		SPIN
		TOP	BOTTOM	TOP	BOTTOM	SUPPORT	SPAN	
B1	250 X 300	3-16TOR + 2-12TOR	3-16TOR	3-16TOR	3-16TOR	2L-8TOR@150C/C	2L-8TOR@200C/C	—
B2	250 X 300	3-16TOR + 3-16TOR	3-16TOR	3-16TOR	3-16TOR	2L-8TOR@150C/C	2L-8TOR@200C/C	—
B3	250 X 300	3-20TOR + 3-20TOR	3-20TOR	3-20TOR	3-20TOR	2L-10TOR@150C/C	2L-10TOR@200C/C	—
B4	250 X 300	3-20TOR + 3-20TOR	3-20TOR	3-20TOR	3-20TOR	2L-10TOR@150C/C	2L-10TOR@200C/C	—
B5	250 X 300	3-20TOR + 3-20TOR	3-20TOR	3-20TOR	3-20TOR	2L-10TOR@150C/C	2L-10TOR@200C/C	—
B6	250 X 300	3-16TOR + 3-16TOR	3-16TOR	3-16TOR	3-16TOR	2L-8TOR@150C/C	2L-8TOR@200C/C	—
B7	250 X 300	3-16TOR + 3-16TOR	3-16TOR	3-16TOR	3-16TOR	2L-8TOR@150C/C	2L-8TOR@200C/C	—
B8	250 X 300	3-16TOR + 3-16TOR	3-16TOR	3-16TOR	3-16TOR	2L-8TOR@150C/C	2L-8TOR@200C/C	—
B9	250 X 300	3-20TOR + 3-20TOR	3-20TOR	3-20TOR	3-20TOR	2L-10TOR@150C/C	2L-10TOR@200C/C	—
B10	250 X 300	3-20TOR + 3-20TOR	3-20TOR	3-20TOR	3-20TOR	2L-10TOR@150C/C	2L-10TOR@200C/C	—

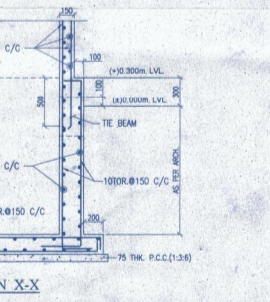
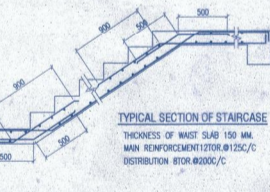


PROJECT:
SUPERSEDED PROPOSAL FOR PROPOSED G+V STORED (HT.-20.00 M) RESIDENTIAL BUILDING AT PREM. NO - 9, SHYAMA PRASAD MUKHERJEE ROAD, KOLKATA - 700 025, WARD NO - 72, BR - VIII, P.S. - BHOWANIPORE. U/R - 142 OF K.M.C. BUILDING RULES - 2009.

NOTES:
1. ALL DIMENSIONS ARE IN MM. U.N.O.
2. GRADE OF CONCRETE SHALL BE M25.
3. GRADE OF REINFORCEMENT SHALL BE F500.
4. CLEAR COVER TO REINFORCEMENT SHALL BE:
a) FOR COLUMN = 40MM.
b) PILE = 50MM.
c) FOR PILE CAP = 50MM.
d) FOR THE BEAM = 40MM.
e) FOR LIFT WALL = 20MM.
f) FOR SLAB = 20MM.
5. MIX OF P.C.C. SHALL BE 1:3:6
6. LAP/BOND LENGTH SHALL BE 50D WHERE D IS THE DIAMETER OF BAR.
SPECIAL NOTES FOR PILES:
7. SLUMP FOR PILE CONCRETE SHALL BE 150 TO 180.
8. LOAD TEST TO BE CARRIED OUT ON PILE AS PER IS 2911-PART 4.
9. GROUND LEVEL HAS BEEN TAKEN AS (+) 0.00m. LEVEL.
10. ALL THE PILES SHALL BE BORED CAST IN SITU PILE BY AUGER.
11. GRADE OF CONCRETE SHALL BE M25 (MIN. CEMENT CONTENT IS 400 KG/CUM. AND MAX. WATER CEMENT RATIO IS 0.45)
12. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT STEEL SHALL BE OF GRADE Fe-500 CONFORMING TO IS. 1786-1985
13. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE 50 MM. (ROLLER TYPE COVER BLOCK TO BE USED).
14. SPECIFIC GRAVITY OF BENTONITE SLURRY AFTER WASHING SHALL 1.1 TO 1.2.



PANEL MKD.	THICKNESS (mm)	SHORTER BARS		LONGER BARS	
		TOP OVER SUPPORT	BOTTOM AT SPAN	TOP OVER SUPPORT	BOTTOM AT SPAN
B1	150	10TOR@150C/C	10TOR@175C/C	10TOR@175C/C	10TOR@175C/C
B2	125	8TOR@150C/C	8TOR@175C/C	8TOR@175C/C	8TOR@175C/C
B3	110	8TOR@150C/C	8TOR@175C/C	8TOR@175C/C	8TOR@200C/C
B4	125	10TOR@150C/C	10TOR@175C/C	10TOR@175C/C	10TOR@200C/C



CERTIFICATE OF STRUCTURAL ENGINEER:
THIS IS TO CERTIFY THAT THE STRUCTURAL DESIGN AND DRAWINGS OF BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECTS.

SIGNATURE OF OWNER:
Koushik Sengupta
KOUSHIK SENGUPTA
E. S. E. - 1/76 (K. M. C.)
SANGHOTO, BANGSORE

SIGNATURE OF ARCHITECT:
Arjan Liki
Arjan Liki
Creating Architect
2865-6616 (O)
2865-6620 (R)
2865-6621 (F)
10B P-23, Raja Bheem Roy Road,
First Floor, Gariahat, 700029
Tel: 033-2460-6545

STRUCTURAL DRAWING
SCALE - 1:100, 25
K'S G ENGINEERING CONSULTANTS
51/2 MAHAJATI NAGAR, BIRATI,
KOLKATA-700051
date:-20-01-17
sheet - 1