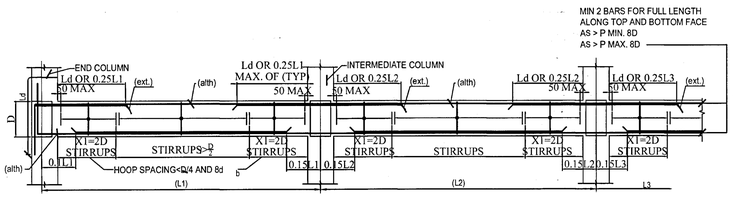
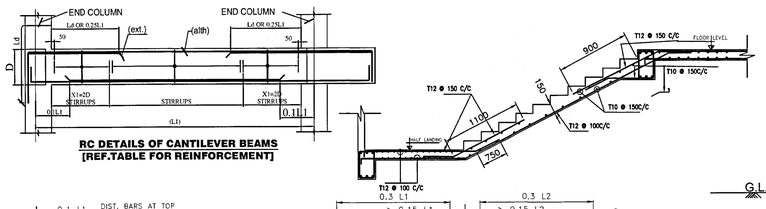


TYPICAL RC DETAILS OF MULTI-SPAN BEAMS
[REF.TABLE FOR REINFORCEMENT]

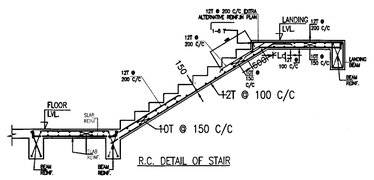
STRAP BEAM MARKED	SIZE OF BEAM (BXD)	GRADE CON.	SPAN		SUPPORT		STIRRUPS
			TOP	BOTTOM	TOP	BOTTOM	
FB-1	500X700	M 25	5 -Y16 2 -Y16	5 -Y16	5 -Y16	5 -Y16 2 -Y16	4L-10T@ 150 C/C
FB-2	500X700	M 25	5 -Y16 2 -Y16	5 -Y16	5 -Y16	5 -Y16 3 -Y16	4L-10T@ 150 C/C
FB-3	500X700	M 25	5 -Y16 3 -Y16	5 -Y16	5 -Y16	5 -Y16 5 -Y16	4L-10T@ 150 C/C

BEAM NO		LEFT	MIDDLE	RIGHT
B1	TOP	3-16Ø+ 3-16Ø	2-16Ø	3-16Ø+ 3-16Ø
	BOTTOM	2-16Ø+ 2-16Ø	2-16Ø+ 2-16Ø	2-16Ø+ 2-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 450		
B2	TOP	2-16Ø+ 2-16Ø	2-16Ø	2-16Ø+ 2-16Ø
	BOTTOM	2-16Ø+ 2-16Ø	2-16Ø+ 2-16Ø	2-16Ø+ 2-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 450		
B3	TOP	2-16Ø+ 2-16Ø	2-16Ø	2-16Ø+ 2-16Ø
	BOTTOM	2-16Ø+ 1-16Ø	2-16Ø+ 1-16Ø	2-16Ø+ 1-16Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 450		
B4	TOP	3-12Ø	3-12Ø	3-12Ø
	BOTTOM	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø
	STIRRUP	2L 8Ø @ 150C/C	2L 8Ø @ 150C/C	2L 8Ø @ 150C/C
	SIZE	250 X 350		
B5	TOP	2-16Ø+ 1-16Ø	2-16Ø	2-16Ø+ 1-16Ø
	BOTTOM	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø
	STIRRUP	2L 8Ø @ 150C/C	2L 8Ø @ 150C/C	2L 8Ø @ 150C/C
	SIZE	250 X 450		

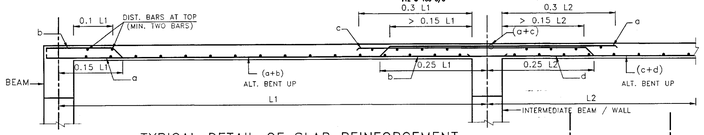
COLUMN MKD.	COLUMN SIZE	GROUND FLOOR	FIRST FLOOR	2ND & 3Rd FLOOR	4Th to ROOF
C1,C2,C3,C4,C5 C6,C7,C8,C9,C10 C14,C15,C18,C19 C20,C21,C23,C24 C25	250 X 450	8-16 Ø	8-16 Ø	8-16 Ø	4-16 Ø + 4-12 Ø
C11,C12,C13 C16	250 X 450	10-16 Ø	10-16 Ø	6-16 Ø + 4-12 Ø	6-16 Ø + 4-12 Ø
C17,C22	250 X 600	12-16 Ø	12-16 Ø	6-16 Ø + 6-12 Ø	6-16 Ø + 6-12 Ø

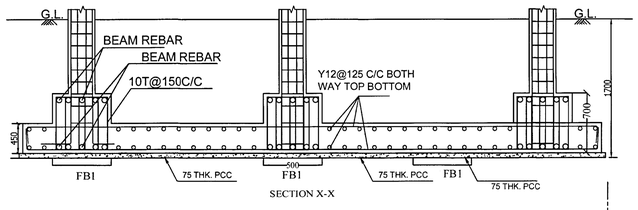


RC DETAILS OF CANTILEVER BEAMS
[REF.TABLE FOR REINFORCEMENT]

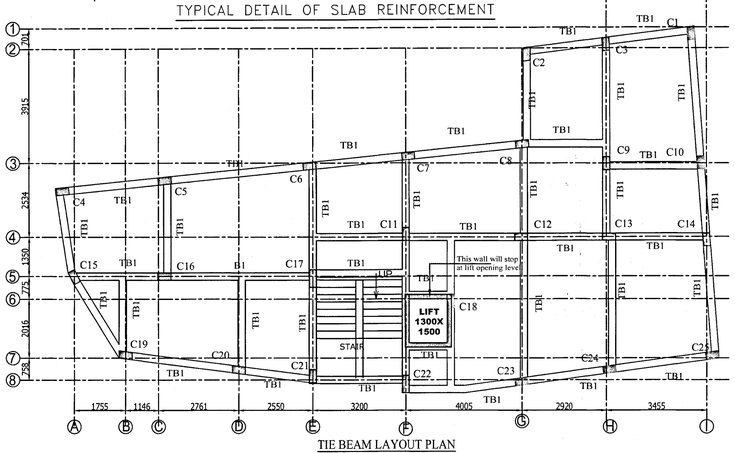


R.C. DETAIL OF STAIR

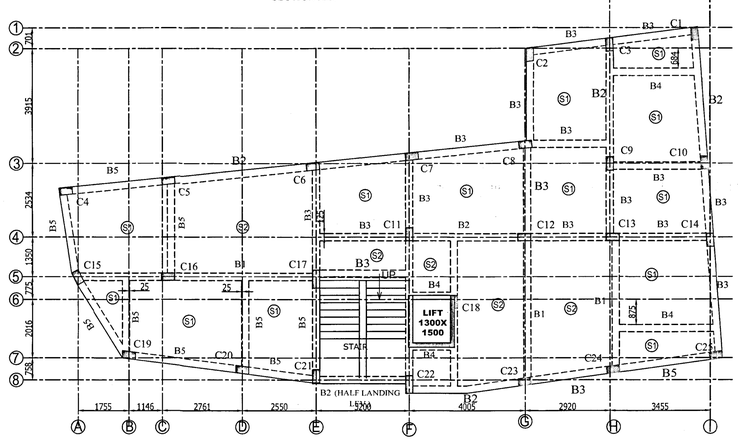




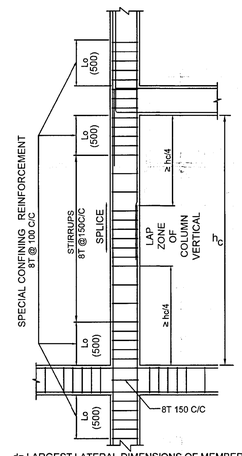
TYPICAL DETAIL OF SLAB REINFORCEMENT



TIE BEAM LAYOUT PLAN



BEAM LAYOUT PLAN of Typical FLOOR LEVEL
UNLESS OTHERWISE ALL SLAB THICKNESS WILL BE S1 110 THK.



d= LARGEST LATERAL DIMENSIONS OF MEMBER.
b=LEAST LATERAL DIMENSION OF COLUMN.
COLUMN AND JOINT DETAILING

BEAM NO		LEFT	MIDDLE	RIGHT
TB1 (T.O.B. AT GROUND LEVEL+150)	TOP	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø
	BOTTOM	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø	2-16Ø+ 1-12Ø
	STIRRUP	2L 8Ø @ 125C/C	2L 8Ø @ 150C/C	2L 8Ø @ 125C/C
	SIZE	250 X 450		

STRUCTURAL DRAWING FOR PROPOSED G+IV STD. RESIDENTIAL CUM COMMERCIAL (RESIDENTIAL TYPE) FLAT TYPE BUILDING OF 1) MR. TARUN ROY, S/O- LATE CHITTARANJAN ROY, 2) JIBAN ROY, S/O- LATE CHITTARANJAN ROY, 3) BALAI ROY, S/O- LATE CHITTARANJAN ROY, 4) BISWAJEET ROY, S/O- LATE MADHAB CHANDRA ROY, 5) SANDHARANI ROY, W/O- LATE MADHAB CHANDRA ROY, SITUATED AT MOUZA- RADHANAGAR, J.L. NO.- 39, R.S. PLOT NO.- 7357 & 7359, L.R. PLOT NO.- 7555 & 7551, L.R. KH. NO.- 9922, 9923, 7605, 7606, 8817, WARD NO- 08, MAHALLA- KALIBAZAR EAST LANE, HOLDING NO.- 83, UNDER BURDWAN MUNICIPALITY,
P.S.- BURDWAN SADAR, DIST.- PURBA BARDHAMAN.

NOTE :-
1. ALL DIM. ARE IN MM AND LEVELS ARE ALSO IN MM UNO.
2. WRITTEN DIM. SHALL BE FOLLOWED.
3. ANY DISCREPANCY IN THIS DRG. SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT/ENGINEER.
4. AS PER COUNCIL OF ARCHITECTURE ACT 1972 PASSED BY PARLIAMENT THE DRG. IS THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED REPRODUCED FOR ANY PURPOSE OTHER THAN THE PRESENT USE.
5. HIGH YIELD STRENGTH DEFORMED BARS OF YIELD STRESS 550 (Fe–550D) N/MM2 WHICH SHALL CONFORM TO 1786–2008 SHALL BE USED AS REINFORCEMENT.
6. CLEAR COVER OF OUTER LAYER REINF. SHALL BE AS FOLLOWS. (a) FOUNDATION = 50 mm. (b) COLUMN = 40 mm. (c) BEAM = 25 mm. (d) SLAB = 20 mm. (e) WAIST SLAB = 20 mm. (f)FOUNDATION BOTTOM =50 mm.
7. LAP/DEVELOPMENT LENGTH 'Ld' FOR DIFFERENT DIA. OF BARS FOR M–25 SHALL BE AS FOLLOWS.

Dia (MM)	8ø	10ø	12ø	16ø	20ø	25ø
Ld (MM)	400	500	600	800	1000	1250

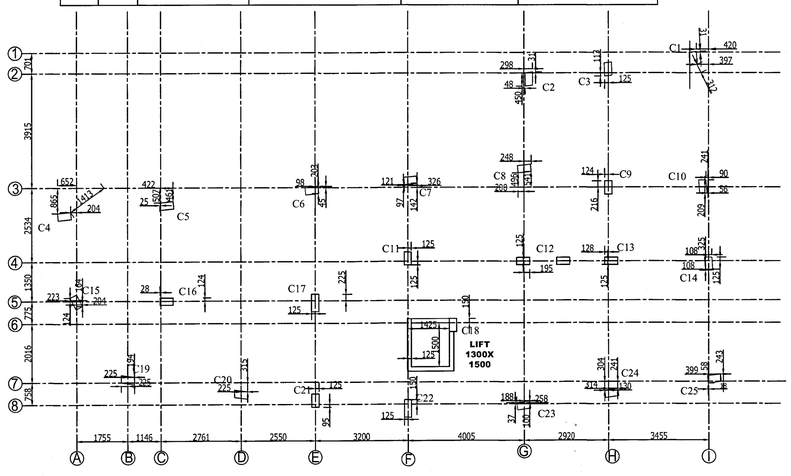
8. CONC. MIX FOR R.C.C. WORK SHALL BE OF GRADE M–25 DESIGN MIX CONFORMING TO I.S. 456 – 2000.
9. NECESSARY FIXTURE FOR ELECTRICAL, PLUMBING, ETC. SHALL BE PROVIDED IN SLAB, BEAMS BEFORE EXECUTION AS PER RELEVANT DWGS.
10. AT JOINT, CORNER & AT JAMB OF OPENING IN WALL SINGLE BAR #12 PROVIDED AS VERTICAL STEEL.
11. FOR LOCATION OF BEAMS REFER GRID PLAN.
12. WHERE TWO LAYERS OF REINF. BARS ARE TO BE PROVIDED, SPACER BAR ARE TO BE PROVIDED AT SPACING OF 1000 mm. MAX. AND THE DIA OF THE SPACER BAR SHALL BE HIGHER OF DIA OF LONGITUDINAL BARS OR 25 mm.
13. THE GRID LAYOUT SHOULD BE READ IN CONJUNCTION WITH ARCH. GRID PLAN WHICH WILL BE CONSIDERED FINAL.
14. DO NOT SCALE THE DRAWING, ONLY FIGURED DIMENSIONS TO BE FOLLOWED, IF ANY DOUBT, ASK FOR CLARIFICATION.
15. ALL LEVELS ARE TO BE FIXED WITH RESPECT TO BENCHMARK ESTABLISHED AT SITE.
16. FINISHED GROUND LEVEL TO BE CONSIDERED AS (±)0.00M. LEV. WHICH IS CONSIDERED AS EXISTING AVERAGE G.L. AT SITE.
17. 200THK. AAC BLOCK TO BE USED FOR OUTER BRICK WORK.

SPECIAL NOTE :- TIE BEAM LAYOUT MUST BE DONE IN ACCORDANCE WITH APPROVED DEPARTMENTAL ARCHITECTURAL MASTER PLAN WITH PERMANENT BENCHMARK ESTABLISHED AT SITE.

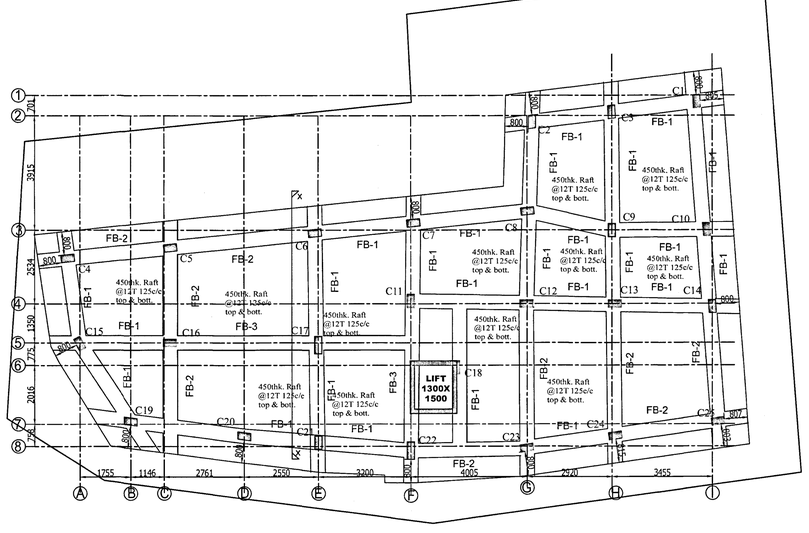
CERTIFIED THAT THE STRUCTURAL DESIGN & DRAWING OF THE BUILDING HAS BEEN CHECKED BY ME BASED ON CONSIDERATION & RECOMMENDATION AS PER NATIONAL BUILDING CODE & RELEVANT I.S. CODES. THE BUILDING IS SAFE & STABLE STRUCTURE IN ALL RESPECT

SCHEDULE OF SLAB

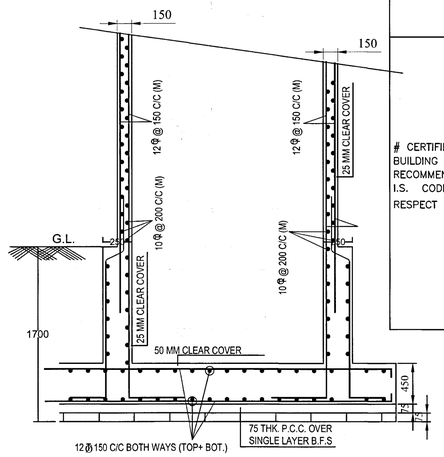
SLAB MKD.	SLAB THK.	REINFORCEMENT			
		LONG SPAN(BOT.)	LONG SPAN(EXTRA TOP)	SHORT SPAN(BOT.)	SHORT SPAN(EXTRA TOP)
S1	110	8 Ø 125 C/C ALL TGH.	8 Ø 125 C/C ALL TGH.	8 Ø 125 C/C ALL TGH.	8 Ø 125 C/C ALL TGH.
S2	125	8 Ø 125 C/C ALL TGH.	8 Ø 125 C/C .(TOP)	8 Ø 125 C/C ALL TGH.	10 Ø 125 C/C ALL TGH.



PROPOSED COLUMN LAYOUT



PROPOSED FOUNDATION LAYOUT
450thk. Raft @12T 125c/c top & bott.



DETAILS OF LIFT