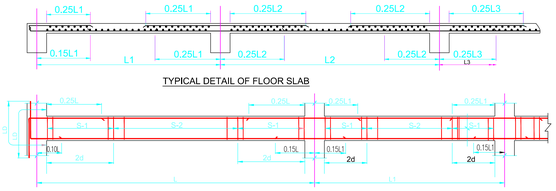
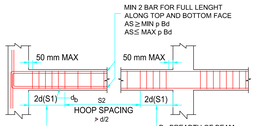
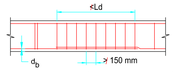


TYPICAL DETAIL OF FLOOR SLAB

TYPICAL DETAIL OF FLOOR BEAM



BEAM REINFORCEMENT



Ld = DEVELOPMENT LENTH IN TENSION
d_b= BAR DIAMETER

LAP, SPLICE IN BEAM

SCHEDULE OF TYPICAL FLOOR BEAM

MKD.	SIZE		REINFORCEMENT				STIRRUP (2L-8T)	
			SUPPORT		SPAN			
	WIDTH	DEPTH	TOP	BOTT.	TOP	BOTT.	SUPP.(s1)	SPAN (s2)
B1	250	400	2-16T+1-16T	2-12T	2-16T	2-12T+1-12T	100 C/C	150 C/C
B2	250	400	3-16T+2-12T	2-12T	3-16T	2-12T+1-16T	100 C/C	150 C/C
B3	250	400	2-16T	2-12T	2-16T	2-12T	100 C/C	150 C/C
B4	250	400	2-12T	2-12T	2-12T	2-12T	100 C/C	150 C/C
B5	250	400	2-12T	2-16T	2-12T	2-16T	100 C/C	150 C/C
B6	250	400	3-16T+2-16T	3-12T	3-16T	3-12T+2-16T	100 C/C	150 C/C
B7	200	400	2-16T+1-16T	2-12T	2-16T	2-12T+1-12T	100 C/C	150 C/C

SCHEDULE OF TYPICAL FLOOR BEAM

MKD.	SIZE		REINFORCEMENT				STIRRUP (2L-8T)	
			SUPPORT		SPAN			
	WIDTH	DEPTH	TOP	BOTT.	TOP	BOTT.	SUPP.(s1)	SPAN (s2)
B1	250	400	2-16T+1-16T	2-12T	2-16T	2-12T+1-12T	100 C/C	150 C/C
B2	250	400	3-16T+2-12T	2-12T	3-16T	2-12T+1-16T	100 C/C	150 C/C
B3	250	400	2-16T	2-12T	2-16T	2-12T	100 C/C	150 C/C
B4	250	400	2-12T	2-12T	2-12T	2-12T	100 C/C	150 C/C
B5	250	400	2-12T	2-16T	2-12T	2-16T	100 C/C	150 C/C
B6	250	400	3-16T+2-16T	3-12T	3-16T	3-12T+2-16T	100 C/C	150 C/C
B7	200	400	2-16T+1-16T	2-12T	2-16T	2-12T+1-12T	100 C/C	150 C/C

SCHEDULE OF SLAB

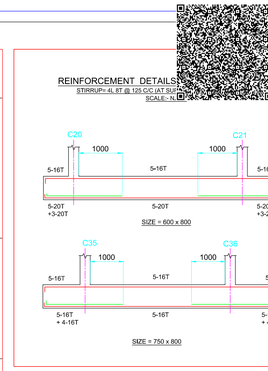
MKD.	THICK.	REINFORCEMENT							
		SHORTER SPAN				LONGER SPAN			
		SUPPORT		SPAN		SUPPORT		SPAN	
		TOP	BOT.	TOP	BOT.	TOP	BOT.	TOP	BOT.
S1	110	8T @ 150 C/C	8T @ 300 C/C	--	8T @ 150 C/C	8T @ 150 C/C	8T @ 300 C/C	--	8T @ 150 C/C
S2	150	10T @ 150 C/C	10T @ 300 C/C	--	10T @ 150 C/C	10T @ 150 C/C	10T @ 300 C/C	--	10T @ 150 C/C
S2	145	LONGITUDINAL REINFORCEMENT- 12T @ 150 C/C DISTRIBUTION STEEL - 8T @ 200 C/C							STAIR WAIST SLAB

SCHEDULE OF FOUNDATION

FOOTING MARK	COLUMN MARK	LENGTH(L) (mm)	WIDTH(W) (mm)	PEDESTAL THICKNESS(mm) EDGE(I.E.)	PEDESTAL THICKNESS(mm) CENTER(C.)	REINFORCEMENT LENGTH(a)	REINFORCEMENT WIDTH(b)	REINFORCEMENT SHORTER SPAN(q)	REINFORCEMENT LONGER SPAN(p)
F1	C1	1300	1300	200	300	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
F2	C4,C8,C23,C27 C33,C39,C50	2200	2200	200	300	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
F3	C22,C40,C45, C41,C48	2400	2400	250	350	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
F4	C2,C5,C16, C34,C47	2600	2600	250	400	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
F4A	C44	2600	2200	250	400	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
F5	C3,C13,C42	2800	2800	250	400	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
F6	C6,C7,C49	3000	3000	250	450	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
F7	C43	3200	2300	250	500	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 125 C/C	12T @ 125 C/C
F8	C46	3200	2800	250	450	+100 OF COL. LEN	+100 OF COL. WIDTH	12T @ 150 C/C	12T @ 150 C/C
CF1	C9-C10-C14-C17	6610	6115	500	500			12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)	12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)
CF2	C11-C12-C15-C18-C19	6410	4675	500	500			12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)	12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)
CF3	C20-C21	5700	3700	250	500			16T @ 150 C/C	10T @ 150 C/C
CF4	C24-C25-C26 C28-C29-C30	9275	5850	500	500			12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)	12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)
CF5	C31-C32-C37-C38	6075	4350	500	500			12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)	12T @ 150 C/C (TOP) 16T @ 150 C/C (BOTTOM)
CF6	C35-C36	6815	2400	250	400			12T @ 150 C/C	10T @ 150 C/C

SCHEDULE OF COLUMN

COLUMN MKD.	REINFORCEMENT BELOW G.L. TO TOP LEVEL	REINFORCEMENT SHAPE OF BAR	NO. OF COL.
C1,C2,C3, C4,C5,C6, C7,C8,C9, C10,C11,C12, C13,C14,C15, C16,C17,C18, C19,C22,C23, C24,C25,C27, C28,C30,C32, C33,C34,C35, C38,C39,C40, C41,C43,C44, C45,C46,C47, C48,C49,C50	4-16T + 4 - 12T WITH 2 C.L. PER SET	8T @150 C/C	42
C26,C31,C37	8-16T + 2 - 12T WITH 2 C.L. + 1 C.L. PER SET	8T @150 C/C	3
C20,C21	12 - 16T WITH 3 C.L. PER SET	8T @150 C/C	2
C36	4-16T + 4-12T WITH 2 C.L. PER SET	8T @150 C/C	1
C29	4-16T + 4-12T WITH 2 C.L. PER SET	8T @150 C/C	1
C42	4-16T + 8 -12T WITH 2 C.L. PER SET	8T @150 C/C	1
SC1,SC2	4-16T WITH 1 C.L. PER SET	8T @150 C/C	2



NOTES & SPECIFICATIONS

1.ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE MENTIONED.
2.WRITTEN DIMENSIONS TO BE FOLLOWED.
3.ALL P.C.C. WORK WILL BE IN (1:3:6)
4.ALL BUILDING MATERIALS TO BE USED AS PER N.B.C. OF INDIA.
5.MINIMUM COVER FOR R.C.C. STRUCTURES :
FOR SLAB- 20 M.M.
FOR BEAM-25 M.M.
FOR COLUMN- 40 M.M.
FOR BELOW G.L. MEMBERS(EACH) -50 M.M.
6.GRADE OF CONCRETE-
M25 FOR BELOW G.L. ; M 20 (1:1.5:3)FOR SUPERSTRUCTURE.
7.GRADE OF STEEL - Fe 500
8.FOUNDATION DESIGNED CONSIDERING SOIL BEARING CAPACITY TO BE 8.4 T/SQM. AS PER SOIL REPORT.

9. THE STRUCTURAL DESIGN IS MADE CONSIDERING
G+IV STORIED RESIDENTIAL CUM COMMERCIAL BUILDING STRUCTURE .

STRUCTURAL CERTIFICATE

THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPER- STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOADS AS PER N.B.C. OF INDIA AND CERTIFICATE THAT IT IS SAFE AND STABLE IN ALL RESPECT.

PARTHA GHOSH
ESE I/85
NAME OF E.S.E

BHASKAR JYOTI ROY
GTE I/20
NAME OF GEOTECHNICAL ENGINEER

PIYALI GUHA THAKURTA
EBA 810
NAME OF ARCHITECT

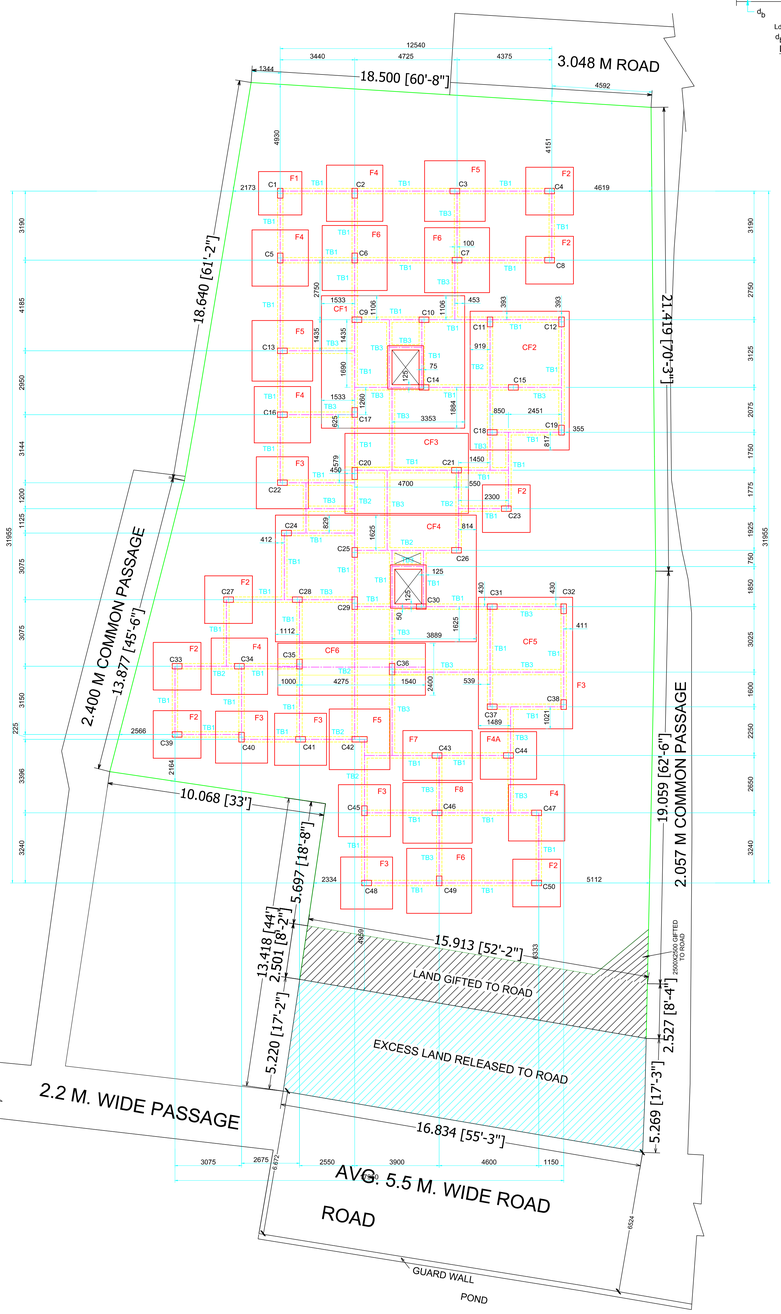
SOMNATH DEY
NAME OF OWNER

STRUCTURAL DRAWING OF PROPOSED G+IV STORIED RESIDENTIAL CUM COMMERCIAL BUILDING AT MOUZA - KAMRABAD,J.L. NO-41, L.R. KHATIAN NO.- 22355,
L.R. DAG NO - 5105, WARD - 09, HOLDING NO. - 5992, P.S. - SONARPUR, DIST-24 PGS. (S), UNDER RAJPUR SONARPUR MUNICIPALITY.

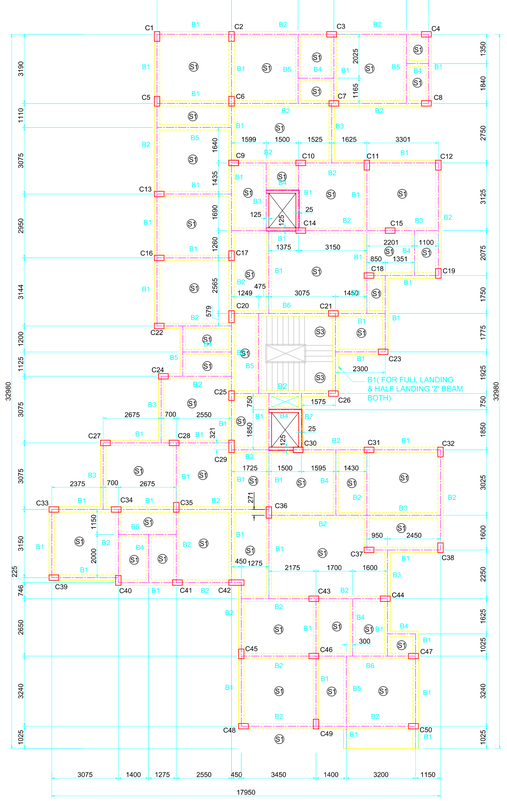
DETAILS OF :-
FOUNDATION, FOUNDATION BEAM,COLUMN, LIFT, BEAM & SLAB.

SHEET NO. **STRUCTURAL SHEET**

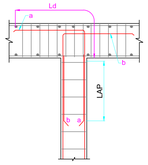
SCALE - 1:100 & AS NOTED



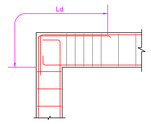
FOUNDATION & TIE BEAM LAYOUT
SCALE = 1:100



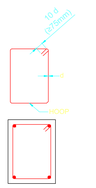
TYPICAL FLOOR BEAM & SLAB LAYOUT
SCALE = 1:100



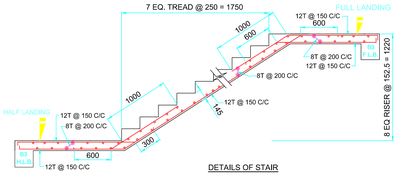
DETAILS OF TERMINATIONS OF COLUMN BARS INSIDE THE BEAM



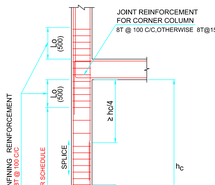
DETAILS OF TERMINATIONS OF CORNER COLUMN BARS



BEAM WEB REINFORCEMENT

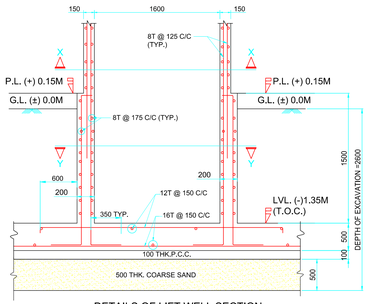


DETAILS OF STAIR

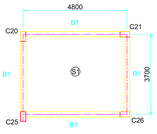


d= LARGEST LATERAL DIMENSIONS OF MEMBER.
b=LEAST LATERAL DIMENSION OF COLUMN.

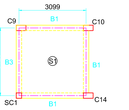
COLUMN AND JOINT DETAILING



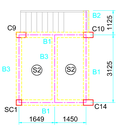
DETAILS OF LIFT WELL SECTION
SCALE - N.T.S.



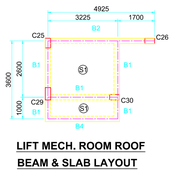
STAIR HEAD ROOM ROOF BEAM & SLAB LAYOUT
SCALE = 1:100



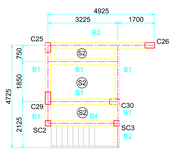
LIFT MECH. ROOM ROOF BEAM & SLAB LAYOUT
SCALE = 1:100



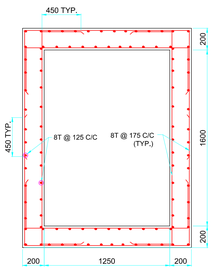
LIFT MECH. ROOM FLOOR BEAM & SLAB LAYOUT
SCALE = 1:100



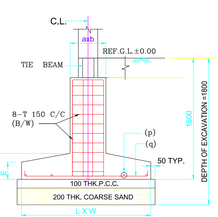
LIFT MECH. ROOM ROOF BEAM & SLAB LAYOUT
SCALE = 1:100



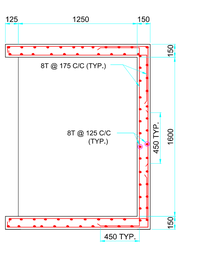
LIFT MECH. ROOM FLOOR BEAM & SLAB LAYOUT
SCALE = 1:100



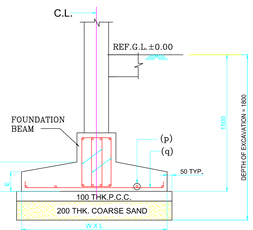
SECTION - Y-Y
SCALE- N.T.S.



TYPICAL DETAILS OF ISOLATED FOOTING



SECTION - X-X
SCALE- N.T.S.



TYPICAL DETAILS OF COMBINED FOOTING